See **Appendix C.**

$$b_1 = k_1 + k_{10} + k_{11} + k_{12} + k_{13} + k_{14} + k_{15} + k_{16} + k_{17} + k_{18} + k_{19} + k_2 + k_{20} + k_{21} + k_{22} + k_{23} + k_{24} + k_{25} + k_{26} + k_{27} + k_3 + k_4 + k_5 + k_6 + k_7 + k_8 + k_9$$

$$b_2 = b_z(-d_1k_1 + d_{19}k_{19} - d_2k_2 + d_{20}k_{20} + d_{21}k_{21} + d_{22}k_{22} + d_{23}k_{23} + d_{24}k_{24} + d_{25}k_{25} + d_{26}k_{26} + d_{27}k_{27} - d_3k_3 - d_4k_4 - d_5k_5 - d_6k_6 - d_7k_7 - d_8k_8 - d_9k_9) + \bar{k}_1n_{3,1} + \bar{k}_{10}n_{3,10} + \bar{k}_{11}n_{3,11} + \bar{k}_{12}n_{3,12} + \bar{k}_{13}n_{3,13} + \bar{k}_{14} + \bar{k}_{15}n_{3,15} + \bar{k}_{16}n_{3,16} + \bar{k}_{17}n_{3,17} + \bar{k}_{18}n_{3,18} + \bar{k}_{19}n_{3,19} + \bar{k}_2n_{3,2} + \bar{k}_{20}n_{3,20} + \bar{k}_{21}n_{3,21} + \bar{k}_{22}n_{3,22} + \bar{k}_{23}n_{3,23} + \bar{k}_{24}n_{3,24} + \bar{k}_{25}n_{3,25} + \bar{k}_{26}n_{3,26} + \bar{k}_{27}n_{3,27} + \bar{k}_3n_{3,3} + \bar{k}_4n_{3,4} + \bar{k}_5n_{3,5} + \bar{k}_6n_{3,6} + \bar{k}_7n_{3,7} + \bar{k}_8n_{3,8} + \bar{k}_9n_{3,9}$$

$$b_3 = b_y(-d_1k_1 - d_{10}k_{10} - d_{11}k_{11} - d_{12}k_{12} + d_{16}k_{16} + d_{17}k_{17} + d_{18}k_{18} - d_{19}k_{19} - d_2k_2 - d_{20}k_{20} - d_{21}k_{21} + d_{25}k_{25} + d_{26}k_{26} + d_{27}k_{27} - d_3k_3 + d_7k_7 + d_8k_8 + d_9k_9) + \bar{k}_1n_{2,1} + \bar{k}_{10}n_{2,10} + \bar{k}_{11}n_{2,11} + \bar{k}_{12}n_{2,12} + \bar{k}_{13}n_{2,13} + \bar{k}_{14} + \bar{k}_{15}n_{2,15} + \bar{k}_{16}n_{2,16} + \bar{k}_{17}n_{2,17} + \bar{k}_{18}n_{2,18} + \bar{k}_{19}n_{2,19} + \bar{k}_2n_{2,2} + \bar{k}_{20}n_{2,20} + \bar{k}_{21}n_{2,21} + \bar{k}_{22}n_{2,22} + \bar{k}_{23}n_{2,23} + \bar{k}_{24}n_{2,24} + \bar{k}_{25}n_{2,25} + \bar{k}_{26}n_{2,26} + \bar{k}_{27}n_{2,27} + \bar{k}_3n_{2,3} + \bar{k}_4n_{2,4} + \bar{k}_5n_{2,5} + \bar{k}_6n_{2,6} + \bar{k}_7n_{2,7} + \bar{k}_8n_{2,8} + \bar{k}_9n_{2,9}$$

$$b_4 = -d_1k_1 - d_{10}k_{10} + d_{12}k_{12} - d_{13}k_{13} + d_{15}k_{15} - d_{16}k_{16} + d_{18}k_{18} - d_{19}k_{19} + d_{21}k_{21} - d_{22}k_{22} + d_{24}k_{24} - d_{25}k_{25} + d_{27}k_{27} + d_3k_3 - d_4k_4 + d_6k_6 - d_7k_7 + d_9k_9 + \bar{k}_1n_{1,1} + \bar{k}_{10}n_{1,10} + \bar{k}_{11}n_{1,11} + \bar{k}_{12}n_{1,12} + \bar{k}_{13}n_{1,13} + \bar{k}_{14} + \bar{k}_{15}n_{1,15} + \bar{k}_{16}n_{1,16} + \bar{k}_{17}n_{1,17} + \bar{k}_{18}n_{1,18} + \bar{k}_{19}n_{1,19} + \bar{k}_2n_{1,2} + \bar{k}_{20}n_{1,20} + \bar{k}_{21}n_{1,21} + \bar{k}_{22}n_{1,22} + \bar{k}_{23}n_{1,23} + \bar{k}_{24}n_{1,24} + \bar{k}_{25}n_{1,25} + \bar{k}_{26}n_{1,26} + \bar{k}_{27}n_{1,27} + \bar{k}_3n_{1,3} + \bar{k}_4n_{1,4} + \bar{k}_5n_{1,5} + \bar{k}_6n_{1,6} + \bar{k}_7n_{1,7} + \bar{k}_8n_{1,8} + \bar{k}_9n_{1,9}$$

$$b_5 = \tfrac{1}{2}((b_z{}^2 - 1)d_1^2k_1 + b_z{}^2d_{19}^2k_{19} + b_z{}^2d_2^2k_2 + b_z{}^2d_{20}^2k_{20} + b_z{}^2d_{21}^2k_{21} + b_z{}^2d_{22}^2k_{22} + b_z{}^2d_{23}^2k_{23} + b_z{}^2d_{24}^2k_{24} + b_z{}^2d_{25}^2k_{25} + b_z{}^2d_{26}^2k_{26} + b_z{}^2d_{27}^2k_{27} + b_z{}^2d_3^2k_3 + b_z{}^2d_4^2k_4 + b_z{}^2d_5^2k_5 + b_z{}^2d_6^2k_6 + b_z{}^2d_7^2k_7 + b_z{}^2d_8^2k_8 + b_z{}^2d_9^2k_9 + 2d_1\bar{k}_1(n_{1,1} - b_zn_{3,1}) + 2b_zd_{19}\bar{k}_{19}n_{3,19} - 2b_zd_2\bar{k}_2n_{3,2} + 2b_zd_{20}\bar{k}_{20}n_{3,20} + 2b_zd_{21}\bar{k}_{21}n_{3,21} + 2b_zd_{22}\bar{k}_{22}n_{3,22} + 2b_zd_{23}\bar{k}_{23}n_{3,23} + 2b_zd_{24}\bar{k}_{24}n_{3,24} + 2b_zd_{25}\bar{k}_{25}n_{3,25} + 2b_zd_{26}\bar{k}_{26}n_{3,26} + 2b_zd_{27}\bar{k}_{27}n_{3,27} - 2b_zd_3\bar{k}_3n_{3,3} - 2b_zd_4\bar{k}_4n_{3,4} - 2b_zd_5\bar{k}_5n_{3,5} - 2b_zd_6\bar{k}_6n_{3,6} - 2b_zd_7\bar{k}_7n_{3,7} - 2b_zd_8\bar{k}_8n_{3,8} - 2b_zd_9\bar{k}_9n_{3,9} - d_{10}^2k_{10} + 2d_{10}\bar{k}_{10}n_{1,10} - d_{12}^2k_{12} - 2d_{12}\bar{k}_{12}n_{1,12} - d_{13}^2k_{13} + 2d_{13}\bar{k}_{13}n_{1,13} - d_{15}^2k_{15} - 2d_{15}\bar{k}_{15}n_{1,15} - d_{16}^2k_{16} + 2d_{16}\bar{k}_{16}n_{1,16} - d_{18}^2k_{18} - 2d_{18}\bar{k}_{18}n_{1,18} - d_{19}^2k_{19} + 2d_{19}\bar{k}_{19}n_{1,19} - d_{21}^2k_{21} - 2d_{21}\bar{k}_{21}n_{1,21} - d_{22}^2k_{22} + 2d_{22}\bar{k}_{22}n_{1,22} - d_{24}^2k_{24} - 2d_{24}\bar{k}_{24}n_{1,24} - d_{25}^2k_{25} + 2d_{25}\bar{k}_{25}n_{1,25} - d_{27}^2k_{27} - 2d_{27}\bar{k}_{27}n_{1,27} - d_3^2k_3 - 2d_3\bar{k}_3n_{1,3} - d_4^2k_4 + 2d_4\bar{k}_4n_{1,4} - d_6^2k_6 - 2d_6\bar{k}_6n_{1,6} - d_7^2k_7 + 2d_7\bar{k}_7n_{1,7} - d_9^2k_9 - 2d_9\bar{k}_9n_{1,9})$$

$$b_6 = b_y(b_z(d_1^2k_1 - d_{19}^2k_{19} + d_2^2k_2 - d_{20}^2k_{20} - d_{21}^2k_{21} + d_{25}^2k_{25} + d_{26}^2k_{26} + d_{27}^2k_{27} + d_3^2k_3 - d_7^2k_7 - d_8^2k_8 - d_9^2k_9) - d_1\bar{k}_1n_{3,1} - d_{10}\bar{k}_{10}n_{3,10} - d_{11}\bar{k}_{11}n_{3,11} - d_{12}\bar{k}_{12}n_{3,12} + d_{16}\bar{k}_{16}n_{3,16} + d_{17}\bar{k}_{17}n_{3,17} + d_{18}\bar{k}_{18}n_{3,18} - d_{19}\bar{k}_{19}n_{3,19} - d_2\bar{k}_2n_{3,2} - d_{20}\bar{k}_{20}n_{3,20} - d_{21}\bar{k}_{21}n_{3,21} + d_{25}\bar{k}_{25}n_{3,25} + d_{26}\bar{k}_{26}n_{3,26} + d_{27}\bar{k}_{27}n_{3,27} - d_3\bar{k}_3n_{3,3} + d_7\bar{k}_7n_{3,7} + d_8\bar{k}_8n_{3,8} + d_9\bar{k}_9n_{3,9}) + b_z(-d_1\bar{k}_1n_{2,1} + d_{19}\bar{k}_{19}n_{2,19} - d_2\bar{k}_2n_{2,2} + d_{20}\bar{k}_{20}n_{2,20} + d_{21}\bar{k}_{21}n_{2,21} + d_{22}\bar{k}_{22}n_{2,22} + d_{23}\bar{k}_{23}n_{2,23} + d_{24}\bar{k}_{24}n_{2,24} + d_{25}\bar{k}_{25}n_{2,25} + d_{26}\bar{k}_{26}n_{2,26} + d_{27}\bar{k}_{27}n_{2,27} - d_3\bar{k}_3n_{2,3} - d_4\bar{k}_4n_{2,4} - d_5\bar{k}_5n_{2,5} - d_6\bar{k}_6n_{2,6} - d_7\bar{k}_7n_{2,7} - d_8\bar{k}_8n_{2,8} - d_9\bar{k}_9n_{2,9})$$

$$b_7 = \tfrac{1}{2}((b_y{}^2 - 1)d_1^2k_1 + (b_y{}^2 - 1)d_{10}^2k_{10} + b_y{}^2d_{11}^2k_{11} + b_y{}^2d_{12}^2k_{12} + b_y{}^2d_{16}^2k_{16} + b_y{}^2d_{17}^2k_{17} + b_y{}^2d_{18}^2k_{18} + b_y{}^2d_{19}^2k_{19} + b_y{}^2d_2^2k_2 + b_y{}^2d_{20}^2k_{20} + b_y{}^2d_{21}^2k_{21} + b_y{}^2d_{25}^2k_{25} + b_y{}^2d_{26}^2k_{26} + b_y{}^2d_{27}^2k_{27} + b_y{}^2d_3^2k_3 + b_y{}^2d_7^2k_7 + b_y{}^2d_8^2k_8 + b_y{}^2d_9^2k_9 + 2d_1\bar{k}_1(n_{1,1} - b_yn_{2,1}) + 2d_{10}\bar{k}_{10}(n_{1,10} - b_yn_{2,10}) - 2b_yd_{11}\bar{k}_{11}n_{2,11} - 2b_yd_{12}\bar{k}_{12}n_{2,12} + 2b_yd_{16}\bar{k}_{16}n_{2,16} + 2b_yd_{17}\bar{k}_{17}n_{2,17} + 2b_yd_{18}\bar{k}_{18}n_{2,18} - 2b_yd_{19}\bar{k}_{19}n_{2,19} - 2b_yd_2\bar{k}_2n_{2,2} - 2b_yd_{20}\bar{k}_{20}n_{2,20} - 2b_yd_{21}\bar{k}_{21}n_{2,21} + 2b_yd_{25}\bar{k}_{25}n_{2,25} + 2b_yd_{26}\bar{k}_{26}n_{2,26} + 2b_yd_{27}\bar{k}_{27}n_{2,27} - 2b_yd_3\bar{k}_3n_{2,3} + 2b_yd_7\bar{k}_7n_{2,7} + 2b_yd_8\bar{k}_8n_{2,8} + 2b_yd_9\bar{k}_9n_{2,9} - d_{12}^2k_{12} - 2d_{12}\bar{k}_{12}n_{1,12} - d_{13}^2k_{13} + 2d_{13}\bar{k}_{13}n_{1,13} - d_{15}^2k_{15} - 2d_{15}\bar{k}_{15}n_{1,15} - d_{16}^2k_{16} + 2d_{16}\bar{k}_{16}n_{1,16} - d_{18}^2k_{18} - 2d_{18}\bar{k}_{18}n_{1,18} - d_{19}^2k_{19} + 2d_{19}\bar{k}_{19}n_{1,19} - d_{21}^2k_{21} - 2d_{21}\bar{k}_{21}n_{1,21} - d_{22}^2k_{22} + 2d_{22}\bar{k}_{22}n_{1,22} - d_{24}^2k_{24} - 2d_{24}\bar{k}_{24}n_{1,24} - d_{25}^2k_{25} + 2d_{25}\bar{k}_{25}n_{1,25} - d_{27}^2k_{27} - 2d_{27}\bar{k}_{27}n_{1,27} - d_3^2k_3 - 2d_3\bar{k}_3n_{1,3} - d_4^2k_4 + 2d_4\bar{k}_4n_{1,4} - d_6^2k_6 - 2d_6\bar{k}_6n_{1,6} - d_7^2k_7 + 2d_7\bar{k}_7n_{1,7} - d_9^2k_9 - 2d_9\bar{k}_9n_{1,9})$$

$$b_8 = b_z(d_1^2k_1 - d_1\bar{k}_1n_{1,1} - d_{19}^2k_{19} + d_{19}\bar{k}_{19}n_{1,19} - d_2\bar{k}_2n_{1,2} + d_{20}\bar{k}_{20}n_{1,20} + d_{21}^2k_{21} + d_{21}\bar{k}_{21}n_{1,21} - d_{22}^2k_{22} +$$

$d_{22}\bar{k}_{22}n_{1,22}+d_{23}\bar{k}_{23}n_{1,23}+d_{24}^2k_{24}+d_{24}\bar{k}_{24}n_{1,24}-d_{25}^2k_{25}+d_{25}\bar{k}_{25}n_{1,25}+d_{26}\bar{k}_{26}n_{1,26}+d_{27}^2k_{27}+d_{27}\bar{k}_{27}n_{1,27}-d_3^2k_3-d_3\bar{k}_3n_{1,3}+d_4^2k_4-d_4\bar{k}_4n_{1,4}-d_5\bar{k}_5n_{1,5}-d_6^2k_6-d_6\bar{k}_6n_{1,6}+d_7^2k_7-d_7\bar{k}_7n_{1,7}-d_8\bar{k}_8n_{1,8}-d_9^2k_9-d_9\bar{k}_9n_{1,9})-d_1\bar{k}_1n_{3,1}-d_{10}\bar{k}_{10}n_{3,10}+d_{12}\bar{k}_{12}n_{3,12}-d_{13}\bar{k}_{13}n_{3,13}+d_{15}\bar{k}_{15}n_{3,15}-d_{16}\bar{k}_{16}n_{3,16}+d_{18}\bar{k}_{18}n_{3,18}-d_{19}\bar{k}_{19}n_{3,19}+d_{21}\bar{k}_{21}n_{3,21}-d_{22}\bar{k}_{22}n_{3,22}+d_{24}\bar{k}_{24}n_{3,24}-d_{25}\bar{k}_{25}n_{3,25}+d_{27}\bar{k}_{27}n_{3,27}+d_3\bar{k}_3n_{3,3}-d_4\bar{k}_4n_{3,4}+d_6\bar{k}_6n_{3,6}-d_7\bar{k}_7n_{3,7}+d_9\bar{k}_9n_{3,9}$

$b_9=b_y(d_1^2k_1-d_1\bar{k}_1n_{1,1}+d_{10}^2k_{10}-d_{10}\bar{k}_{10}n_{1,10}-d_{11}\bar{k}_{11}n_{1,11}-d_{12}^2k_{12}-d_{12}\bar{k}_{12}n_{1,12}-d_{16}^2k_{16}+d_{16}\bar{k}_{16}n_{1,16}+d_{17}\bar{k}_{17}n_{1,17}+d_{18}^2k_{18}+d_{18}\bar{k}_{18}n_{1,18}+d_{19}^2k_{19}-d_{19}\bar{k}_{19}n_{1,19}-d_2\bar{k}_2n_{1,2}-d_{20}\bar{k}_{20}n_{1,20}-d_{21}^2k_{21}-d_{21}\bar{k}_{21}n_{1,21}-d_{25}^2k_{25}+d_{25}\bar{k}_{25}n_{1,25}+d_{26}\bar{k}_{26}n_{1,26}+d_{27}^2k_{27}+d_{27}\bar{k}_{27}n_{1,27}-d_3^2k_3-d_3\bar{k}_3n_{1,3}-d_7^2k_7+d_7\bar{k}_7n_{1,7}+d_8\bar{k}_8n_{1,8}+d_9^2k_9+d_9\bar{k}_9n_{1,9})-d_1\bar{k}_1n_{2,1}-d_{10}\bar{k}_{10}n_{2,10}+d_{12}\bar{k}_{12}n_{2,12}-d_{13}\bar{k}_{13}n_{2,13}+d_{15}\bar{k}_{15}n_{2,15}-d_{16}\bar{k}_{16}n_{2,16}+d_{18}\bar{k}_{18}n_{2,18}-d_{19}\bar{k}_{19}n_{2,19}+d_{21}\bar{k}_{21}n_{2,21}-d_{22}\bar{k}_{22}n_{2,22}+d_{24}\bar{k}_{24}n_{2,24}-d_{25}\bar{k}_{25}n_{2,25}+d_{27}\bar{k}_{27}n_{2,27}+d_3\bar{k}_3n_{2,3}-d_4\bar{k}_4n_{2,4}+d_6\bar{k}_6n_{2,6}-d_7\bar{k}_7n_{2,7}+d_9\bar{k}_9n_{2,9}$

$b_{10}=\frac{1}{6}(b_z{}^3(d_1^3(-k_1)+d_{19}^3k_{19}-d_2^3k_2+d_{20}^3k_{20}+d_{21}^3k_{21}+d_{22}^3k_{22}+d_{23}^3k_{23}+d_{24}^3k_{24}+d_{25}^3k_{25}+d_{26}^3k_{26}+d_{27}^3k_{27}-d_3^3k_3-d_4^3k_4-d_5^3k_5-d_6^3k_6-d_7^3k_7-d_8^3k_8-d_9^3k_9)+3b_z{}^2(d_1^2\bar{k}_1n_{3,1}+d_{19}^2\bar{k}_{19}n_{3,19}+d_2^2\bar{k}_2n_{3,2}+d_{20}^2\bar{k}_{20}n_{3,20}+d_{21}^2\bar{k}_{21}n_{3,21}+d_{22}^2\bar{k}_{22}n_{3,22}+d_{23}^2\bar{k}_{23}n_{3,23}+d_{24}^2\bar{k}_{24}n_{3,24}+d_{25}^2\bar{k}_{25}n_{3,25}+d_{26}^2\bar{k}_{26}n_{3,26}+d_{27}^2\bar{k}_{27}n_{3,27}+d_3^2\bar{k}_3n_{3,3}+d_4^2\bar{k}_4n_{3,4}+d_5^2\bar{k}_5n_{3,5}+d_6^2\bar{k}_6n_{3,6}+d_7^2\bar{k}_7n_{3,7}+d_8^2\bar{k}_8n_{3,8}+d_9^2\bar{k}_9n_{3,9})+3b_z(d_1^3k_1-2d_1^2\bar{k}_1n_{1,1}-d_{19}^3k_{19}+2d_{19}^2\bar{k}_{19}n_{1,19}-d_{21}^3k_{21}-2d_{21}^2\bar{k}_{21}n_{1,21}-d_{22}^3k_{22}+2d_{22}^2\bar{k}_{22}n_{1,22}-d_{24}^3k_{24}-2d_{24}^2\bar{k}_{24}n_{1,24}-d_{25}^3k_{25}+2d_{25}^2\bar{k}_{25}n_{1,25}-d_{27}^3k_{27}-2d_{27}^2\bar{k}_{27}n_{1,27}+d_3^3k_3+2d_3^2\bar{k}_3n_{1,3}+d_4^3k_4-2d_4^2\bar{k}_4n_{1,4}+d_6^3k_6+2d_6^2\bar{k}_6n_{1,6}+d_7^3k_7-2d_7^2\bar{k}_7n_{1,7}+d_9^3k_9+2d_9^2\bar{k}_9n_{1,9})-3(d_1^2\bar{k}_1n_{3,1}+d_{10}^2\bar{k}_{10}n_{3,10}+d_{12}^2\bar{k}_{12}n_{3,12}+d_{13}^2\bar{k}_{13}n_{3,13}+d_{15}^2\bar{k}_{15}n_{3,15}+d_{16}^2\bar{k}_{16}n_{3,16}+d_{18}^2\bar{k}_{18}n_{3,18}+d_{19}^2\bar{k}_{19}n_{3,19}+d_{21}^2\bar{k}_{21}n_{3,21}+d_{22}^2\bar{k}_{22}n_{3,22}+d_{24}^2\bar{k}_{24}n_{3,24}+d_{25}^2\bar{k}_{25}n_{3,25}+d_{27}^2\bar{k}_{27}n_{3,27}+d_3^2\bar{k}_3n_{3,3}+d_4^2\bar{k}_4n_{3,4}+d_6^2\bar{k}_6n_{3,6}+d_7^2\bar{k}_7n_{3,7}+d_9^2\bar{k}_9n_{3,9}))$

$b_{11}=\frac{1}{2}(b_y(d_1^3(k_1-b_z{}^2k_1)-b_z{}^2d_{19}^3k_{19}-b_z{}^2d_2^3k_2-b_z{}^2d_{20}^3k_{20}-b_z{}^2d_{21}^3k_{21}+b_z{}^2d_{25}^3k_{25}+b_z{}^2d_{26}^3k_{26}+b_z{}^2d_{27}^3k_{27}-b_z{}^2d_3^3k_3+b_z{}^2d_7^3k_7+b_z{}^2d_8^3k_8+b_z{}^2d_9^3k_9-2d_1^2\bar{k}_1(n_{1,1}-b_zn_{3,1})-2b_zd_{19}^2\bar{k}_{19}n_{3,19}+2b_zd_2^2\bar{k}_2n_{3,2}-2b_zd_{20}^2\bar{k}_{20}n_{3,20}-2b_zd_{21}^2\bar{k}_{21}n_{3,21}+2b_zd_{25}^2\bar{k}_{25}n_{3,25}+2b_zd_{26}^2\bar{k}_{26}n_{3,26}+2b_zd_{27}^2\bar{k}_{27}n_{3,27}+2b_zd_3^2\bar{k}_3n_{3,3}-2b_zd_7^2\bar{k}_7n_{3,7}-2b_zd_8^2\bar{k}_8n_{3,8}-2b_zd_9^2\bar{k}_9n_{3,9}+d_{10}^3k_{10}-2d_{10}^2\bar{k}_{10}n_{1,10}+d_{12}^3k_{12}+2d_{12}^2\bar{k}_{12}n_{1,12}-d_{16}^3k_{16}+2d_{16}^2\bar{k}_{16}n_{1,16}-d_{18}^3k_{18}-2d_{18}^2\bar{k}_{18}n_{1,18}+d_{19}^3k_{19}-2d_{19}^2\bar{k}_{19}n_{1,19}+d_{21}^3k_{21}+2d_{21}^2\bar{k}_{21}n_{1,21}-d_{25}^3k_{25}+2d_{25}^2\bar{k}_{25}n_{1,25}-d_{27}^3k_{27}-2d_{27}^2\bar{k}_{27}n_{1,27}+d_3^3k_3+2d_3^2\bar{k}_3n_{1,3}-d_7^3k_7+2d_7^2\bar{k}_7n_{1,7}-d_9^3k_9-2d_9^2\bar{k}_9n_{1,9})+(b_z{}^2-1)d_1^2\bar{k}_1n_{2,1}+b_z{}^2d_{19}^2\bar{k}_{19}n_{2,19}+b_z{}^2d_2^2\bar{k}_2n_{2,2}+b_z{}^2d_{20}^2\bar{k}_{20}n_{2,20}+b_z{}^2d_{21}^2\bar{k}_{21}n_{2,21}+b_z{}^2d_{22}^2\bar{k}_{22}n_{2,22}+b_z{}^2d_{23}^2\bar{k}_{23}n_{2,23}+b_z{}^2d_{24}^2\bar{k}_{24}n_{2,24}+b_z{}^2d_{25}^2\bar{k}_{25}n_{2,25}+b_z{}^2d_{26}^2\bar{k}_{26}n_{2,26}+b_z{}^2d_{27}^2\bar{k}_{27}n_{2,27}+b_z{}^2d_3^2\bar{k}_3n_{2,3}+b_z{}^2d_4^2\bar{k}_4n_{2,4}+b_z{}^2d_5^2\bar{k}_5n_{2,5}+b_z{}^2d_6^2\bar{k}_6n_{2,6}+b_z{}^2d_7^2\bar{k}_7n_{2,7}+b_z{}^2d_8^2\bar{k}_8n_{2,8}+b_z{}^2d_9^2\bar{k}_9n_{2,9}-d_{10}^2\bar{k}_{10}n_{2,10}-d_{12}^2\bar{k}_{12}n_{2,12}-d_{13}^2\bar{k}_{13}n_{2,13}-d_{15}^2\bar{k}_{15}n_{2,15}-d_{16}^2\bar{k}_{16}n_{2,16}-d_{18}^2\bar{k}_{18}n_{2,18}-d_{19}^2\bar{k}_{19}n_{2,19}-d_{21}^2\bar{k}_{21}n_{2,21}-d_{22}^2\bar{k}_{22}n_{2,22}-d_{24}^2\bar{k}_{24}n_{2,24}-d_{25}^2\bar{k}_{25}n_{2,25}-d_{27}^2\bar{k}_{27}n_{2,27}-d_3^2\bar{k}_3n_{2,3}-d_4^2\bar{k}_4n_{2,4}-d_6^2\bar{k}_6n_{2,6}-d_7^2\bar{k}_7n_{2,7}-d_9^2\bar{k}_9n_{2,9})$

$b_{12}=\frac{1}{2}(b_z(d_1^3(k_1-b_y{}^2k_1)+(b_y{}^2-1)d_{19}^3k_{19}-b_y{}^2d_2^3k_2+b_y{}^2d_{20}^3k_{20}+b_y{}^2d_{21}^3k_{21}+b_y{}^2d_{25}^3k_{25}+b_y{}^2d_{26}^3k_{26}+b_y{}^2d_{27}^3k_{27}-b_y{}^2d_3^3k_3-b_y{}^2d_7^3k_7-b_y{}^2d_8^3k_8-b_y{}^2d_9^3k_9-2d_1^2\bar{k}_1(n_{1,1}-b_yn_{2,1})+2d_{19}^2\bar{k}_{19}(n_{1,19}-b_yn_{2,19})+2b_yd_2^2\bar{k}_2n_{2,2}-2b_yd_{20}^2\bar{k}_{20}n_{2,20}-2b_yd_{21}^2\bar{k}_{21}n_{2,21}+2b_yd_{25}^2\bar{k}_{25}n_{2,25}+2b_yd_{26}^2\bar{k}_{26}n_{2,26}+2b_yd_{27}^2\bar{k}_{27}n_{2,27}+2b_yd_3^2\bar{k}_3n_{2,3}-2b_yd_7^2\bar{k}_7n_{2,7}-2b_yd_8^2\bar{k}_8n_{2,8}-2b_yd_9^2\bar{k}_9n_{2,9}-d_{21}^3k_{21}-2d_{21}^2\bar{k}_{21}n_{1,21}-d_{22}^3k_{22}+2d_{22}^2\bar{k}_{22}n_{1,22}-d_{24}^3k_{24}-2d_{24}^2\bar{k}_{24}n_{1,24}-d_{25}^3k_{25}+2d_{25}^2\bar{k}_{25}n_{1,25}-d_{27}^3k_{27}-2d_{27}^2\bar{k}_{27}n_{1,27}+d_3^3k_3+2d_3^2\bar{k}_3n_{1,3}+d_4^3k_4-2d_4^2\bar{k}_4n_{1,4}+d_6^3k_6+2d_6^2\bar{k}_6n_{1,6}+d_7^3k_7-2d_7^2\bar{k}_7n_{1,7}+d_9^3k_9+2d_9^2\bar{k}_9n_{1,9})+(b_y{}^2-1)d_1^2\bar{k}_1n_{3,1}+b_y{}^2d_{10}^2\bar{k}_{10}n_{3,10}+b_y{}^2d_{11}^2\bar{k}_{11}n_{3,11}+b_y{}^2d_{12}^2\bar{k}_{12}n_{3,12}+b_y{}^2d_{16}^2\bar{k}_{16}n_{3,16}+b_y{}^2d_{17}^2\bar{k}_{17}n_{3,17}+b_y{}^2d_{18}^2\bar{k}_{18}n_{3,18}+b_y{}^2d_{19}^2\bar{k}_{19}n_{3,19}+b_y{}^2d_2^2\bar{k}_2n_{3,2}+b_y{}^2d_{20}^2\bar{k}_{20}n_{3,20}+b_y{}^2d_{21}^2\bar{k}_{21}n_{3,21}+b_y{}^2d_{25}^2\bar{k}_{25}n_{3,25}+b_y{}^2d_{26}^2\bar{k}_{26}n_{3,26}+b_y{}^2d_{27}^2\bar{k}_{27}n_{3,27}+b_y{}^2d_3^2\bar{k}_3n_{3,3}+b_y{}^2d_7^2\bar{k}_7n_{3,7}+b_y{}^2d_8^2\bar{k}_8n_{3,8}+b_y{}^2d_9^2\bar{k}_9n_{3,9}-d_{10}^2\bar{k}_{10}n_{3,10}-d_{12}^2\bar{k}_{12}n_{3,12}-d_{13}^2\bar{k}_{13}n_{3,13}-d_{15}^2\bar{k}_{15}n_{3,15}-d_{16}^2\bar{k}_{16}n_{3,16}-d_{18}^2\bar{k}_{18}n_{3,18}-d_{19}^2\bar{k}_{19}n_{3,19}-d_{21}^2\bar{k}_{21}n_{3,21}-d_{22}^2\bar{k}_{22}n_{3,22}-d_{24}^2\bar{k}_{24}n_{3,24}-d_{25}^2\bar{k}_{25}n_{3,25}-d_{27}^2\bar{k}_{27}n_{3,27}-d_3^2\bar{k}_3n_{3,3}-d_4^2\bar{k}_4n_{3,4}-d_6^2\bar{k}_6n_{3,6}-d_7^2\bar{k}_7n_{3,7}-d_9^2\bar{k}_9n_{3,9})$

$b_{13}=\frac{1}{6}(b_y{}^3(d_1^3(-k_1)-d_{10}^3k_{10}-d_{11}^3k_{11}-d_{12}^3k_{12}+d_{16}^3k_{16}+d_{17}^3k_{17}+d_{18}^3k_{18}-d_{19}^3k_{19}-d_2^3k_2-d_{20}^3k_{20}-d_{21}^3k_{21}+d_{25}^3k_{25}+d_{26}^3k_{26}+d_{27}^3k_{27}-d_3^3k_3+d_7^3k_7+d_8^3k_8+d_9^3k_9)+3b_y{}^2(d_1^2\bar{k}_1n_{2,1}+d_{10}^2\bar{k}_{10}n_{2,10}+d_{11}^2\bar{k}_{11}n_{2,11}+$

$d_{12}^2\bar{k}_{12}n_{2,12} + d_{16}^2\bar{k}_{16}n_{2,16} + d_{17}^2\bar{k}_{17}n_{2,17} + d_{18}^2\bar{k}_{18}n_{2,18} + d_{19}^2\bar{k}_{19}n_{2,19} + d_2^2\bar{k}_2n_{2,2} + d_{20}^2\bar{k}_{20}n_{2,20} + d_{21}^2\bar{k}_{21}n_{2,21} + d_{25}^2\bar{k}_{25}n_{2,25} + d_{26}^2\bar{k}_{26}n_{2,26} + d_{27}^2\bar{k}_{27}n_{2,27} + d_3^2\bar{k}_3n_{2,3} + d_7^2\bar{k}_7n_{2,7} + d_8^2\bar{k}_8n_{2,8} + d_9^2\bar{k}_9n_{2,9}) + 3b_y(d_1^3k_1 - 2d_1^2\bar{k}_1n_{1,1} + d_{10}^3k_{10} - 2d_{10}^2\bar{k}_{10}n_{1,10} + d_{12}^3k_{12} + 2d_{12}^2\bar{k}_{12}n_{1,12} - d_{16}^3k_{16} + 2d_{16}^2\bar{k}_{16}n_{1,16} - d_{18}^3k_{18} - 2d_{18}^2\bar{k}_{18}n_{1,18} + d_{19}^3k_{19} - 2d_{19}^2\bar{k}_{19}n_{1,19} + d_{21}^3k_{21} + 2d_{21}^2\bar{k}_{21}n_{1,21} - d_{25}^3k_{25} + 2d_{25}^2\bar{k}_{25}n_{1,25} - d_{27}^3k_{27} - 2d_{27}^2\bar{k}_{27}n_{1,27} + d_3^3k_3 + 2d_3^2\bar{k}_3n_{1,3} - d_7^3k_7 + 2d_7^2\bar{k}_7n_{1,7} - d_9^3k_9 - 2d_9^2\bar{k}_9n_{1,9}) - 3(d_1^2\bar{k}_1n_{2,1} + d_{10}^2\bar{k}_{10}n_{2,10} + d_{12}^2\bar{k}_{12}n_{2,12} + d_{13}^2\bar{k}_{13}n_{2,13} + d_{15}^2\bar{k}_{15}n_{2,15} + d_{16}^2\bar{k}_{16}n_{2,16} + d_{18}^2\bar{k}_{18}n_{2,18} + d_{19}^2\bar{k}_{19}n_{2,19} + d_{21}^2\bar{k}_{21}n_{2,21} + d_{22}^2\bar{k}_{22}n_{2,22} + d_{24}^2\bar{k}_{24}n_{2,24} + d_{25}^2\bar{k}_{25}n_{2,25} + d_{27}^2\bar{k}_{27}n_{2,27} + d_3^2\bar{k}_3n_{2,3} + d_4^2\bar{k}_4n_{2,4} + d_6^2\bar{k}_6n_{2,6} + d_7^2\bar{k}_7n_{2,7} + d_9^2\bar{k}_9n_{2,9}))$

$b_{14} = \frac{1}{6}(d_1^3(k_1 - 3{b_z}^2k_1) + 3d_1^2\bar{k}_1(({b_z}^2 - 1)n_{1,1} + 2b_zn_{3,1}) - 3{b_z}^2d_{19}^3k_{19} + 3{b_z}^2d_{19}^2\bar{k}_{19}n_{1,19} + 3{b_z}^2d_2^2\bar{k}_2n_{1,2} + 3{b_z}^2d_{20}^2\bar{k}_{20}n_{1,20} + 3{b_z}^2d_{21}^3k_{21} + 3{b_z}^2d_{21}^2\bar{k}_{21}n_{1,21} - 3{b_z}^2d_{22}^3k_{22} + 3{b_z}^2d_{22}^2\bar{k}_{22}n_{1,22} + 3{b_z}^2d_{23}^2\bar{k}_{23}n_{1,23} + 3{b_z}^2d_{24}^3k_{24} + 3{b_z}^2d_{24}^2\bar{k}_{24}n_{1,24} - 3{b_z}^2d_{25}^3k_{25} + 3{b_z}^2d_{25}^2\bar{k}_{25}n_{1,25} + 3{b_z}^2d_{26}^2\bar{k}_{26}n_{1,26} + 3{b_z}^2d_{27}^3k_{27} + 3{b_z}^2d_{27}^2\bar{k}_{27}n_{1,27} + 3{b_z}^2d_3^3k_3 + 3{b_z}^2d_3^2\bar{k}_3n_{1,3} - 3{b_z}^2d_4^3k_4 + 3{b_z}^2d_4^2\bar{k}_4n_{1,4} + 3{b_z}^2d_5^2\bar{k}_5n_{1,5} + 3{b_z}^2d_6^3k_6 + 3{b_z}^2d_6^2\bar{k}_6n_{1,6} - 3{b_z}^2d_7^3k_7 + 3{b_z}^2d_7^2\bar{k}_7n_{1,7} + 3{b_z}^2d_8^2\bar{k}_8n_{1,8} + 3{b_z}^2d_9^3k_9 + 3{b_z}^2d_9^2\bar{k}_9n_{1,9} - 6b_zd_{19}^2\bar{k}_{19}n_{3,19} + 6b_zd_{21}^2\bar{k}_{21}n_{3,21} - 6b_zd_{22}^2\bar{k}_{22}n_{3,22} + 6b_zd_{24}^2\bar{k}_{24}n_{3,24} - 6b_zd_{25}^2\bar{k}_{25}n_{3,25} + 6b_zd_{27}^2\bar{k}_{27}n_{3,27} - 6b_zd_3^2\bar{k}_3n_{3,3} + 6b_zd_4^2\bar{k}_4n_{3,4} - 6b_zd_6^2\bar{k}_6n_{3,6} + 6b_zd_7^2\bar{k}_7n_{3,7} - 6b_zd_9^2\bar{k}_9n_{3,9} + d_{10}^3k_{10} - 3d_{10}^2\bar{k}_{10}n_{1,10} - d_{12}^3k_{12} - 3d_{12}^2\bar{k}_{12}n_{1,12} + d_{13}^3k_{13} - 3d_{13}^2\bar{k}_{13}n_{1,13} - d_{15}^3k_{15} - 3d_{15}^2\bar{k}_{15}n_{1,15} + d_{16}^3k_{16} - 3d_{16}^2\bar{k}_{16}n_{1,16} - d_{18}^3k_{18} - 3d_{18}^2\bar{k}_{18}n_{1,18} + d_{19}^3k_{19} - 3d_{19}^2\bar{k}_{19}n_{1,19} - d_{21}^3k_{21} - 3d_{21}^2\bar{k}_{21}n_{1,21} + d_{22}^3k_{22} - 3d_{22}^2\bar{k}_{22}n_{1,22} - d_{24}^3k_{24} - 3d_{24}^2\bar{k}_{24}n_{1,24} + d_{25}^3k_{25} - 3d_{25}^2\bar{k}_{25}n_{1,25} - d_{27}^3k_{27} - 3d_{27}^2\bar{k}_{27}n_{1,27} - d_3^3k_3 - 3d_3^2\bar{k}_3n_{1,3} + d_4^3k_4 - 3d_4^2\bar{k}_4n_{1,4} - d_6^3k_6 - 3d_6^2\bar{k}_6n_{1,6} + d_7^3k_7 - 3d_7^2\bar{k}_7n_{1,7} - d_9^3k_9 - 3d_9^2\bar{k}_9n_{1,9})$

$b_{15} = b_y(b_z(d_1^3(-k_1) + d_1^2\bar{k}_1n_{1,1} + d_{19}^3k_{19} - d_{19}^2\bar{k}_{19}n_{1,19} + d_2^2\bar{k}_2n_{1,2} - d_{20}^2\bar{k}_{20}n_{1,20} - d_{21}^3k_{21} - d_{21}^2\bar{k}_{21}n_{1,21} - d_{25}^3k_{25} + d_{25}^2\bar{k}_{25}n_{1,25} + d_{26}^2\bar{k}_{26}n_{1,26} + d_{27}^3k_{27} + d_{27}^2\bar{k}_{27}n_{1,27} + d_3^3k_3 + d_3^2\bar{k}_3n_{1,3} + d_7^3k_7 - d_7^2\bar{k}_7n_{1,7} - d_8^2\bar{k}_8n_{1,8} - d_9^3k_9 - d_9^2\bar{k}_9n_{1,9}) + d_1^2\bar{k}_1n_{3,1} + d_{10}^2\bar{k}_{10}n_{3,10} - d_{12}^2\bar{k}_{12}n_{3,12} - d_{16}^2\bar{k}_{16}n_{3,16} + d_{18}^2\bar{k}_{18}n_{3,18} + d_{19}^2\bar{k}_{19}n_{3,19} - d_{21}^2\bar{k}_{21}n_{3,21} - d_{25}^2\bar{k}_{25}n_{3,25} + d_{27}^2\bar{k}_{27}n_{3,27} - d_3^2\bar{k}_3n_{3,3} - d_7^2\bar{k}_7n_{3,7} + d_9^2\bar{k}_9n_{3,9}) + b_z(d_1^2\bar{k}_1n_{2,1} - d_{19}^2\bar{k}_{19}n_{2,19} + d_{21}^2\bar{k}_{21}n_{2,21} - d_{22}^2\bar{k}_{22}n_{2,22} + d_{24}^2\bar{k}_{24}n_{2,24} - d_{25}^2\bar{k}_{25}n_{2,25} + d_{27}^2\bar{k}_{27}n_{2,27} - d_3^2\bar{k}_3n_{2,3} + d_4^2\bar{k}_4n_{2,4} - d_6^2\bar{k}_6n_{2,6} + d_7^2\bar{k}_7n_{2,7} - d_9^2\bar{k}_9n_{2,9})$

$b_{16} = \frac{1}{6}(d_1^3(k_1 - 3{b_y}^2k_1) + 3d_1^2\bar{k}_1(({b_y}^2 - 1)n_{1,1} + 2b_yn_{2,1}) + d_{10}^3(k_{10} - 3{b_y}^2k_{10}) + 3d_{10}^2\bar{k}_{10}(({b_y}^2 - 1)n_{1,10} + 2b_yn_{2,10}) + 3{b_y}^2d_{11}^2\bar{k}_{11}n_{1,11} + 3{b_y}^2d_{12}^3k_{12} + 3{b_y}^2d_{12}^2\bar{k}_{12}n_{1,12} - 3{b_y}^2d_{16}^3k_{16} + 3{b_y}^2d_{16}^2\bar{k}_{16}n_{1,16} + 3{b_y}^2d_{17}^2\bar{k}_{17}n_{1,17} + 3{b_y}^2d_{18}^3k_{18} + 3{b_y}^2d_{18}^2\bar{k}_{18}n_{1,18} - 3{b_y}^2d_{19}^3k_{19} + 3{b_y}^2d_{19}^2\bar{k}_{19}n_{1,19} + 3{b_y}^2d_2^2\bar{k}_2n_{1,2} + 3{b_y}^2d_{20}^2\bar{k}_{20}n_{1,20} + 3{b_y}^2d_{21}^3k_{21} + 3{b_y}^2d_{21}^2\bar{k}_{21}n_{1,21} - 3{b_y}^2d_{25}^3k_{25} + 3{b_y}^2d_{25}^2\bar{k}_{25}n_{1,25} + 3{b_y}^2d_{26}^2\bar{k}_{26}n_{1,26} + 3{b_y}^2d_{27}^3k_{27} + 3{b_y}^2d_{27}^2\bar{k}_{27}n_{1,27} + 3{b_y}^2d_3^3k_3 + 3{b_y}^2d_3^2\bar{k}_3n_{1,3} - 3{b_y}^2d_7^3k_7 + 3{b_y}^2d_7^2\bar{k}_7n_{1,7} + 3{b_y}^2d_8^2\bar{k}_8n_{1,8} + 3{b_y}^2d_9^3k_9 + 3{b_y}^2d_9^2\bar{k}_9n_{1,9} - 6b_yd_{12}^2\bar{k}_{12}n_{2,12} - 6b_yd_{16}^2\bar{k}_{16}n_{2,16} + 6b_yd_{18}^2\bar{k}_{18}n_{2,18} + 6b_yd_{19}^2\bar{k}_{19}n_{2,19} - 6b_yd_{21}^2\bar{k}_{21}n_{2,21} - 6b_yd_{25}^2\bar{k}_{25}n_{2,25} + 6b_yd_{27}^2\bar{k}_{27}n_{2,27} - 6b_yd_3^2\bar{k}_3n_{2,3} - 6b_yd_7^2\bar{k}_7n_{2,7} + 6b_yd_9^2\bar{k}_9n_{2,9} - d_{12}^3k_{12} - 3d_{12}^2\bar{k}_{12}n_{1,12} + d_{13}^3k_{13} - 3d_{13}^2\bar{k}_{13}n_{1,13} - d_{15}^3k_{15} - 3d_{15}^2\bar{k}_{15}n_{1,15} + d_{16}^3k_{16} - 3d_{16}^2\bar{k}_{16}n_{1,16} - d_{18}^3k_{18} - 3d_{18}^2\bar{k}_{18}n_{1,18} + d_{19}^3k_{19} - 3d_{19}^2\bar{k}_{19}n_{1,19} - d_{21}^3k_{21} - 3d_{21}^2\bar{k}_{21}n_{1,21} + d_{22}^3k_{22} - 3d_{22}^2\bar{k}_{22}n_{1,22} - d_{24}^3k_{24} - 3d_{24}^2\bar{k}_{24}n_{1,24} + d_{25}^3k_{25} - 3d_{25}^2\bar{k}_{25}n_{1,25} - d_{27}^3k_{27} - 3d_{27}^2\bar{k}_{27}n_{1,27} - d_3^3k_3 - 3d_3^2\bar{k}_3n_{1,3} + d_4^3k_4 - 3d_4^2\bar{k}_4n_{1,4} - d_6^3k_6 - 3d_6^2\bar{k}_6n_{1,6} + d_7^3k_7 - 3d_7^2\bar{k}_7n_{1,7} - d_9^3k_9 - 3d_9^2\bar{k}_9n_{1,9})$

$b_{17} = \frac{1}{24}(({b_z}^4 - 6{b_z}^2 + 1)k_1d_1^4 - 4\bar{k}_1(-3n_{1,1}{b_z}^2 + ({b_z}^2 - 3)n_{3,1}b_z + n_{1,1})d_1^3 + d_{10}^4k_{10} + d_{12}^4k_{12} + d_{13}^4k_{13} + d_{15}^4k_{15} + d_{16}^4k_{16} + d_{18}^4k_{18} + {b_z}^4d_{19}^4k_{19} - 6{b_z}^2d_{19}^4k_{19} + d_{19}^4k_{19} + {b_z}^4d_2^4k_2 + {b_z}^4d_{20}^4k_{20} + {b_z}^4d_{21}^4k_{21} - 6{b_z}^2d_{21}^4k_{21} + d_{21}^4k_{21} + {b_z}^4d_{22}^4k_{22} - 6{b_z}^2d_{22}^4k_{22} + d_{22}^4k_{22} + {b_z}^4d_{23}^4k_{23} + {b_z}^4d_{24}^4k_{24} - 6{b_z}^2d_{24}^4k_{24} + d_{24}^4k_{24} + {b_z}^4d_{25}^4k_{25} - 6{b_z}^2d_{25}^4k_{25} + d_{25}^4k_{25} + {b_z}^4d_{26}^4k_{26} + {b_z}^4d_{27}^4k_{27} - 6{b_z}^2d_{27}^4k_{27} + d_{27}^4k_{27} + {b_z}^4d_3^4k_3 - 6{b_z}^2d_3^4k_3 + d_3^4k_3 + {b_z}^4d_4^4k_4 - 6{b_z}^2d_4^4k_4 + d_4^4k_4 + {b_z}^4d_5^4k_5 + {b_z}^4d_6^4k_6 - 6{b_z}^2d_6^4k_6 + d_6^4k_6 + {b_z}^4d_7^4k_7 - 6{b_z}^2d_7^4k_7 + d_7^4k_7 + {b_z}^4d_8^4k_8 + {b_z}^4d_9^4k_9 - 6{b_z}^2d_9^4k_9 + d_9^4k_9 - 4d_{10}^3\bar{k}_{10}n_{1,10} + 4d_{12}^3\bar{k}_{12}n_{1,12} - 4d_{13}^3\bar{k}_{13}n_{1,13} + 4d_{15}^3\bar{k}_{15}n_{1,15} - 4d_{16}^3\bar{k}_{16}n_{1,16} + 4d_{18}^3\bar{k}_{18}n_{1,18} + 12{b_z}^2d_{19}^3\bar{k}_{19}n_{1,19} - 4d_{19}^3\bar{k}_{19}n_{1,19} - 12{b_z}^2d_{21}^3\bar{k}_{21}n_{1,21} + 4d_{21}^3\bar{k}_{21}n_{1,21} + 12{b_z}^2d_{22}^3\bar{k}_{22}n_{1,22} - 4d_{22}^3\bar{k}_{22}n_{1,22} - 12{b_z}^2d_{24}^3\bar{k}_{24}n_{1,24} + 4d_{24}^3\bar{k}_{24}n_{1,24} + 12{b_z}^2d_{25}^3\bar{k}_{25}n_{1,25} - 4d_{25}^3\bar{k}_{25}n_{1,25} - 12{b_z}^2d_{27}^3\bar{k}_{27}n_{1,27} + 4d_{27}^3\bar{k}_{27}n_{1,27} - 12{b_z}^2d_3^3\bar{k}_3n_{1,3} + 4d_3^3\bar{k}_3n_{1,3} + 12{b_z}^2d_4^3\bar{k}_4n_{1,4} - 4d_4^3\bar{k}_4n_{1,4} -$

$12b_z{}^2d_6^3\bar{k}_6n_{1,6} + 4d_6^3\bar{k}_6n_{1,6} + 12b_z{}^2d_7^3\bar{k}_7n_{1,7} - 4d_7^3\bar{k}_7n_{1,7} - 12b_z{}^2d_9^3\bar{k}_9n_{1,9} + 4d_9^3\bar{k}_9n_{1,9} + 4b_z{}^3d_{19}^3\bar{k}_{19}n_{3,19} - 12b_zd_{19}^3\bar{k}_{19}n_{3,19} - 4b_z{}^3d_2^3\bar{k}_2n_{3,2} + 4b_z{}^3d_{20}^3\bar{k}_{20}n_{3,20} + 4b_z{}^3d_{21}^3\bar{k}_{21}n_{3,21} - 12b_zd_{21}^3\bar{k}_{21}n_{3,21} + 4b_z{}^3d_{22}^3\bar{k}_{22}n_{3,22} - 12b_zd_{22}^3\bar{k}_{22}n_{3,22} + 4b_z{}^3d_{23}^3\bar{k}_{23}n_{3,23} + 4b_z{}^3d_{24}^3\bar{k}_{24}n_{3,24} - 12b_zd_{24}^3\bar{k}_{24}n_{3,24} + 4b_z{}^3d_{25}^3\bar{k}_{25}n_{3,25} - 12b_zd_{25}^3\bar{k}_{25}n_{3,25} + 4b_z{}^3d_{26}^3\bar{k}_{26}n_{3,26} + 4b_z{}^3d_{27}^3\bar{k}_{27}n_{3,27} - 12b_zd_{27}^3\bar{k}_{27}n_{3,27} - 4b_z{}^3d_3^3\bar{k}_3n_{3,3} + 12b_zd_3^3\bar{k}_3n_{3,3} - 4b_z{}^3d_4^3\bar{k}_4n_{3,4} + 12b_zd_4^3\bar{k}_4n_{3,4} - 4b_z{}^3d_5^3\bar{k}_5n_{3,5} - 4b_z{}^3d_6^3\bar{k}_6n_{3,6} + 12b_zd_6^3\bar{k}_6n_{3,6} - 4b_z{}^3d_7^3\bar{k}_7n_{3,7} + 12b_zd_7^3\bar{k}_7n_{3,7} - 4b_z{}^3d_8^3\bar{k}_8n_{3,8} - 4b_z{}^3d_9^3\bar{k}_9n_{3,9} + 12b_zd_9^3\bar{k}_9n_{3,9})$

$b_{18} = \frac{1}{6}(b_y(b_z{}^3(d_1^4k_1 - d_{19}^4k_{19} + d_2^4k_2 - d_{20}^4k_{20} - d_{21}^4k_{21} + d_{25}^4k_{25} + d_{26}^4k_{26} + d_{27}^4k_{27} + d_3^4k_3 - d_7^4k_7 - d_8^4k_8 - d_9^4k_9) - 3b_z{}^2(d_1^3\bar{k}_1n_{3,1} + d_{19}^3\bar{k}_{19}n_{3,19} + d_2^3\bar{k}_2n_{3,2} + d_{20}^3\bar{k}_{20}n_{3,20} + d_{21}^3\bar{k}_{21}n_{3,21} - d_{25}^3\bar{k}_{25}n_{3,25} - d_{26}^3\bar{k}_{26}n_{3,26} - d_{27}^3\bar{k}_{27}n_{3,27} + d_3^3\bar{k}_3n_{3,3} - d_7^3\bar{k}_7n_{3,7} - d_8^3\bar{k}_8n_{3,8} - d_9^3\bar{k}_9n_{3,9}) - 3b_z(d_1^4k_1 - 2d_1^3\bar{k}_1n_{1,1} - d_{19}^4k_{19} + 2d_{19}^3\bar{k}_{19}n_{1,19} - d_{21}^4k_{21} - 2d_{21}^3\bar{k}_{21}n_{1,21} + d_{25}^4k_{25} - 2d_{25}^3\bar{k}_{25}n_{1,25} + d_{27}^4k_{27} + 2d_{27}^3\bar{k}_{27}n_{1,27} + d_3^4k_3 + 2d_3^3\bar{k}_3n_{1,3} - d_7^4k_7 + 2d_7^3\bar{k}_7n_{1,7} - d_9^4k_9 - 2d_9^3\bar{k}_9n_{1,9}) + 3(d_1^3\bar{k}_1n_{3,1} + d_{10}^3\bar{k}_{10}n_{3,10} + d_{12}^3\bar{k}_{12}n_{3,12} - d_{16}^3\bar{k}_{16}n_{3,16} - d_{18}^3\bar{k}_{18}n_{3,18} + d_{19}^3\bar{k}_{19}n_{3,19} + d_{21}^3\bar{k}_{21}n_{3,21} - d_{25}^3\bar{k}_{25}n_{3,25} - d_{27}^3\bar{k}_{27}n_{3,27} + d_3^3\bar{k}_3n_{3,3} - d_7^3\bar{k}_7n_{3,7} - d_9^3\bar{k}_9n_{3,9})) + b_z(-(b_z{}^2 - 3)d_1^3\bar{k}_1n_{2,1} + (b_z{}^2 - 3)d_{19}^3\bar{k}_{19}n_{2,19} - b_z{}^2d_2^3\bar{k}_2n_{2,2} + b_z{}^2d_{20}^3\bar{k}_{20}n_{2,20} + b_z{}^2d_{21}^3\bar{k}_{21}n_{2,21} + b_z{}^2d_{22}^3\bar{k}_{22}n_{2,22} + b_z{}^2d_{23}^3\bar{k}_{23}n_{2,23} + b_z{}^2d_{24}^3\bar{k}_{24}n_{2,24} + b_z{}^2d_{25}^3\bar{k}_{25}n_{2,25} + b_z{}^2d_{26}^3\bar{k}_{26}n_{2,26} + b_z{}^2d_{27}^3\bar{k}_{27}n_{2,27} - b_z{}^2d_3^3\bar{k}_3n_{2,3} - b_z{}^2d_4^3\bar{k}_4n_{2,4} - b_z{}^2d_5^3\bar{k}_5n_{2,5} - b_z{}^2d_6^3\bar{k}_6n_{2,6} - b_z{}^2d_7^3\bar{k}_7n_{2,7} - b_z{}^2d_8^3\bar{k}_8n_{2,8} - b_z{}^2d_9^3\bar{k}_9n_{2,9} - 3d_{21}^3\bar{k}_{21}n_{2,21} - 3d_{22}^3\bar{k}_{22}n_{2,22} - 3d_{24}^3\bar{k}_{24}n_{2,24} - 3d_{25}^3\bar{k}_{25}n_{2,25} - 3d_{27}^3\bar{k}_{27}n_{2,27} + 3d_3^3\bar{k}_3n_{2,3} + 3d_4^3\bar{k}_4n_{2,4} + 3d_6^3\bar{k}_6n_{2,6} + 3d_7^3\bar{k}_7n_{2,7} + 3d_9^3\bar{k}_9n_{2,9}))$

$b_{19} = \frac{1}{12}((3(b_z{}^2 - 1)b_y{}^2 - 3b_z{}^2 + 1)k_1d_1^4 + 2\bar{k}_1(-3b_zn_{3,1}b_y{}^2 - 3(b_z{}^2 - 1)n_{2,1}b_y + (3b_y{}^2 + 3b_z{}^2 - 2)n_{1,1} + 3b_zn_{3,1})d_1^3 + d_{10}^4(k_{10} - 3b_y{}^2k_{10}) - 3b_y{}^2d_{12}^4k_{12} + d_{12}^4k_{12} + d_{13}^4k_{13} + d_{15}^4k_{15} - 3b_y{}^2d_{16}^4k_{16} + d_{16}^4k_{16} - 3b_y{}^2d_{18}^4k_{18} + d_{18}^4k_{18} - 3b_y{}^2d_{19}^4k_{19} + 3b_y{}^2b_z{}^2d_{19}^4k_{19} - 3b_z{}^2d_{19}^4k_{19} + d_{19}^4k_{19} + 3b_y{}^2b_z{}^2d_2^4k_2 + 3b_y{}^2b_z{}^2d_{20}^4k_{20} - 3b_y{}^2d_{21}^4k_{21} + 3b_y{}^2b_z{}^2d_{21}^4k_{21} - 3b_z{}^2d_{21}^4k_{21} + d_{21}^4k_{21} - 3b_z{}^2d_{22}^4k_{22} + d_{22}^4k_{22} - 3b_z{}^2d_{24}^4k_{24} + d_{24}^4k_{24} - 3b_y{}^2d_{25}^4k_{25} + 3b_y{}^2b_z{}^2d_{25}^4k_{25} - 3b_z{}^2d_{25}^4k_{25} + d_{25}^4k_{25} + 3b_y{}^2b_z{}^2d_{26}^4k_{26} - 3b_y{}^2d_{27}^4k_{27} + 3b_y{}^2b_z{}^2d_{27}^4k_{27} - 3b_z{}^2d_{27}^4k_{27} + d_{27}^4k_{27} - 3b_y{}^2d_3^4k_3 + 3b_y{}^2b_z{}^2d_3^4k_3 - 3b_z{}^2d_3^4k_3 + d_3^4k_3 - 3b_z{}^2d_4^4k_4 + d_4^4k_4 - 3b_z{}^2d_6^4k_6 + d_6^4k_6 - 3b_y{}^2d_7^4k_7 + 3b_y{}^2b_z{}^2d_7^4k_7 - 3b_z{}^2d_7^4k_7 + d_7^4k_7 + 3b_y{}^2b_z{}^2d_8^4k_8 - 3b_y{}^2d_9^4k_9 + 3b_y{}^2b_z{}^2d_9^4k_9 - 3b_z{}^2d_9^4k_9 + d_9^4k_9 - 6b_y{}^2d_{12}^3\bar{k}_{12}n_{1,12} + 4d_{12}^3\bar{k}_{12}n_{1,12} - 4d_{13}^3\bar{k}_{13}n_{1,13} + 4d_{15}^3\bar{k}_{15}n_{1,15} + 6b_y{}^2d_{16}^3\bar{k}_{16}n_{1,16} - 4d_{16}^3\bar{k}_{16}n_{1,16} - 6b_y{}^2d_{18}^3\bar{k}_{18}n_{1,18} + 4d_{18}^3\bar{k}_{18}n_{1,18} + 6b_y{}^2d_{19}^3\bar{k}_{19}n_{1,19} + 6b_z{}^2d_{19}^3\bar{k}_{19}n_{1,19} - 4d_{19}^3\bar{k}_{19}n_{1,19} - 6b_y{}^2d_{21}^3\bar{k}_{21}n_{1,21} - 6b_z{}^2d_{21}^3\bar{k}_{21}n_{1,21} + 4d_{21}^3\bar{k}_{21}n_{1,21} + 6b_z{}^2d_{22}^3\bar{k}_{22}n_{1,22} - 4d_{22}^3\bar{k}_{22}n_{1,22} - 6b_z{}^2d_{24}^3\bar{k}_{24}n_{1,24} + 4d_{24}^3\bar{k}_{24}n_{1,24} + 6b_y{}^2d_{25}^3\bar{k}_{25}n_{1,25} + 6b_z{}^2d_{25}^3\bar{k}_{25}n_{1,25} - 4d_{25}^3\bar{k}_{25}n_{1,25} - 6b_y{}^2d_{27}^3\bar{k}_{27}n_{1,27} - 6b_z{}^2d_{27}^3\bar{k}_{27}n_{1,27} + 4d_{27}^3\bar{k}_{27}n_{1,27} - 6b_y{}^2d_3^3\bar{k}_3n_{1,3} - 6b_z{}^2d_3^3\bar{k}_3n_{1,3} + 4d_3^3\bar{k}_3n_{1,3} + 6b_z{}^2d_4^3\bar{k}_4n_{1,4} - 4d_4^3\bar{k}_4n_{1,4} - 6b_z{}^2d_6^3\bar{k}_6n_{1,6} + 4d_6^3\bar{k}_6n_{1,6} + 6b_y{}^2d_7^3\bar{k}_7n_{1,7} + 6b_z{}^2d_7^3\bar{k}_7n_{1,7} - 4d_7^3\bar{k}_7n_{1,7} - 6b_y{}^2d_9^3\bar{k}_9n_{1,9} - 6b_z{}^2d_9^3\bar{k}_9n_{1,9} + 4d_9^3\bar{k}_9n_{1,9} + 2d_{10}^3\bar{k}_{10}((3b_y{}^2 - 2)n_{1,10} + 3b_yn_{2,10}) + 6b_yd_{12}^3\bar{k}_{12}n_{2,12} - 6b_yd_{16}^3\bar{k}_{16}n_{2,16} - 6b_yd_{18}^3\bar{k}_{18}n_{2,18} - 6b_yb_z{}^2d_{19}^3\bar{k}_{19}n_{2,19} + 6b_yd_{19}^3\bar{k}_{19}n_{2,19} - 6b_yb_z{}^2d_2^3\bar{k}_2n_{2,2} - 6b_yb_z{}^2d_{20}^3\bar{k}_{20}n_{2,20} - 6b_yb_z{}^2d_{21}^3\bar{k}_{21}n_{2,21} + 6b_yd_{21}^3\bar{k}_{21}n_{2,21} + 6b_yb_z{}^2d_{25}^3\bar{k}_{25}n_{2,25} - 6b_yd_{25}^3\bar{k}_{25}n_{2,25} + 6b_yb_z{}^2d_{26}^3\bar{k}_{26}n_{2,26} + 6b_yb_z{}^2d_{27}^3\bar{k}_{27}n_{2,27} - 6b_yd_{27}^3\bar{k}_{27}n_{2,27} - 6b_yb_z{}^2d_3^3\bar{k}_3n_{2,3} + 6b_yd_3^3\bar{k}_3n_{2,3} + 6b_yb_z{}^2d_7^3\bar{k}_7n_{2,7} - 6b_yd_7^3\bar{k}_7n_{2,7} + 6b_yb_z{}^2d_8^3\bar{k}_8n_{2,8} + 6b_yb_z{}^2d_9^3\bar{k}_9n_{2,9} - 6b_yd_9^3\bar{k}_9n_{2,9} + 6b_y{}^2b_zd_{19}^3\bar{k}_{19}n_{3,19} - 6b_zd_{19}^3\bar{k}_{19}n_{3,19} - 6b_y{}^2b_zd_2^3\bar{k}_2n_{3,2} + 6b_y{}^2b_zd_{20}^3\bar{k}_{20}n_{3,20} + 6b_y{}^2b_zd_{21}^3\bar{k}_{21}n_{3,21} - 6b_zd_{21}^3\bar{k}_{21}n_{3,21} - 6b_zd_{22}^3\bar{k}_{22}n_{3,22} - 6b_zd_{24}^3\bar{k}_{24}n_{3,24} + 6b_y{}^2b_zd_{25}^3\bar{k}_{25}n_{3,25} - 6b_zd_{25}^3\bar{k}_{25}n_{3,25} + 6b_y{}^2b_zd_{26}^3\bar{k}_{26}n_{3,26} + 6b_y{}^2b_zd_{27}^3\bar{k}_{27}n_{3,27} - 6b_zd_{27}^3\bar{k}_{27}n_{3,27} - 6b_y{}^2b_zd_3^3\bar{k}_3n_{3,3} + 6b_zd_3^3\bar{k}_3n_{3,3} + 6b_zd_4^3\bar{k}_4n_{3,4} + 6b_zd_6^3\bar{k}_6n_{3,6} - 6b_y{}^2b_zd_7^3\bar{k}_7n_{3,7} + 6b_zd_7^3\bar{k}_7n_{3,7} - 6b_y{}^2b_zd_8^3\bar{k}_8n_{3,8} - 6b_y{}^2b_zd_9^3\bar{k}_9n_{3,9} + 6b_zd_9^3\bar{k}_9n_{3,9})$

$b_{20} = \frac{1}{6}(b_y{}^3(b_z(d_1^4k_1 - d_{19}^4k_{19} + d_2^4k_2 - d_{20}^4k_{20} - d_{21}^4k_{21} + d_{25}^4k_{25} + d_{26}^4k_{26} + d_{27}^4k_{27} + d_3^4k_3 - d_7^4k_7 - d_8^4k_8 - d_9^4k_9) + d_1^3(-\bar{k}_1)n_{3,1} - d_{10}^3\bar{k}_{10}n_{3,10} - d_{11}^3\bar{k}_{11}n_{3,11} - d_{12}^3\bar{k}_{12}n_{3,12} + d_{16}^3\bar{k}_{16}n_{3,16} + d_{17}^3\bar{k}_{17}n_{3,17} + d_{18}^3\bar{k}_{18}n_{3,18} - d_{19}^3\bar{k}_{19}n_{3,19} - d_2^3\bar{k}_2n_{3,2} - d_{20}^3\bar{k}_{20}n_{3,20} - d_{21}^3\bar{k}_{21}n_{3,21} + d_{25}^3\bar{k}_{25}n_{3,25} + d_{26}^3\bar{k}_{26}n_{3,26} + d_{27}^3\bar{k}_{27}n_{3,27} - d_3^3\bar{k}_3n_{3,3} + d_7^3\bar{k}_7n_{3,7} + d_8^3\bar{k}_8n_{3,8} + d_9^3\bar{k}_9n_{3,9}) - 3b_y{}^2b_z(d_1^3\bar{k}_1n_{2,1} - d_{19}^3\bar{k}_{19}n_{2,19} + d_2^3\bar{k}_2n_{2,2} - d_{20}^3\bar{k}_{20}n_{2,20} - d_{21}^3\bar{k}_{21}n_{2,21} - d_{25}^3\bar{k}_{25}n_{2,25} - d_{26}^3\bar{k}_{26}n_{2,26} - d_{27}^3\bar{k}_{27}n_{2,27} + d_3^3\bar{k}_3n_{2,3} + d_7^3\bar{k}_7n_{2,7} + d_8^3\bar{k}_8n_{2,8} + d_9^3\bar{k}_9n_{2,9}) - 3b_y(b_z(d_1^4k_1 - 2d_1^3\bar{k}_1n_{1,1} - d_{19}^4k_{19} + 2d_{19}^3\bar{k}_{19}n_{1,19} -$

$d_{21}^4 k_{21} - 2d_{21}^3 \bar{k}_{21} n_{1,21} + d_{25}^4 k_{25} - 2d_{25}^3 \bar{k}_{25} n_{1,25} + d_{27}^4 k_{27} + 2d_{27}^3 \bar{k}_{27} n_{1,27} + d_3^4 k_3 + 2d_3^3 \bar{k}_3 n_{1,3} - d_7^4 k_7 + 2d_7^3 \bar{k}_7 n_{1,7} - d_9^4 k_9 - 2d_9^3 \bar{k}_9 n_{1,9}) + d_1^3(-\bar{k}_1) n_{3,1} - d_{10}^3 \bar{k}_{10} n_{3,10} - d_{12}^3 \bar{k}_{12} n_{3,12} + d_{16}^3 \bar{k}_{16} n_{3,16} + d_{18}^3 \bar{k}_{18} n_{3,18} - d_{19}^3 \bar{k}_{19} n_{3,19} - d_{21}^3 \bar{k}_{21} n_{3,21} + d_{25}^3 \bar{k}_{25} n_{3,25} + d_{27}^3 \bar{k}_{27} n_{3,27} - d_3^3 \bar{k}_3 n_{3,3} + d_7^3 \bar{k}_7 n_{3,7} + d_9^3 \bar{k}_9 n_{3,9}) + 3b_z(d_1^3 \bar{k}_1 n_{2,1} - d_{19}^3 \bar{k}_{19} n_{2,19} - d_{21}^3 \bar{k}_{21} n_{2,21} - d_{22}^3 \bar{k}_{22} n_{2,22} - d_{24}^3 \bar{k}_{24} n_{2,24} - d_{25}^3 \bar{k}_{25} n_{2,25} - d_{27}^3 \bar{k}_{27} n_{2,27} + d_3^3 \bar{k}_3 n_{2,3} + d_4^3 \bar{k}_4 n_{2,4} + d_6^3 \bar{k}_6 n_{2,6} + d_7^3 \bar{k}_7 n_{2,7} + d_9^3 \bar{k}_9 n_{2,9}))$

$b_{21} = \frac{1}{24}((b_y{}^4 - 6b_y{}^2 + 1) k_1 d_1^4 - 4\bar{k}_1(-3n_{1,1} b_y{}^2 + (b_y{}^2 - 3) n_{2,1} b_y + n_{1,1}) d_1^3 + (b_y{}^4 - 6b_y{}^2 + 1) d_{10}^4 k_{10} + b_y{}^4 d_{11}^4 k_{11} + b_y{}^4 d_{12}^4 k_{12} - 6b_y{}^2 d_{12}^4 k_{12} + d_{12}^4 k_{12} + d_{13}^4 k_{13} + d_{15}^4 k_{15} + b_y{}^4 d_{16}^4 k_{16} - 6b_y{}^2 d_{16}^4 k_{16} + d_{16}^4 k_{16} + b_y{}^4 d_{17}^4 k_{17} + b_y{}^4 d_{18}^4 k_{18} - 6b_y{}^2 d_{18}^4 k_{18} + d_{18}^4 k_{18} + b_y{}^4 d_{19}^4 k_{19} - 6b_y{}^2 d_{19}^4 k_{19} + d_{19}^4 k_{19} + b_y{}^4 d_2^4 k_2 + b_y{}^4 d_{20}^4 k_{20} + b_y{}^4 d_{21}^4 k_{21} - 6b_y{}^2 d_{21}^4 k_{21} + d_{21}^4 k_{21} + d_{22}^4 k_{22} + d_{24}^4 k_{24} + b_y{}^4 d_{25}^4 k_{25} - 6b_y{}^2 d_{25}^4 k_{25} + d_{25}^4 k_{25} + b_y{}^4 d_{26}^4 k_{26} + b_y{}^4 d_{27}^4 k_{27} - 6b_y{}^2 d_{27}^4 k_{27} + d_{27}^4 k_{27} + b_y{}^4 d_3^4 k_3 - 6b_y{}^2 d_3^4 k_3 + d_3^4 k_3 + d_4^4 k_4 + d_6^4 k_6 + b_y{}^4 d_7^4 k_7 - 6b_y{}^2 d_7^4 k_7 + d_7^4 k_7 + b_y{}^4 d_8^4 k_8 + b_y{}^4 d_9^4 k_9 - 6b_y{}^2 d_9^4 k_9 + d_9^4 k_9 - 12b_y{}^2 d_{12}^3 \bar{k}_{12} n_{1,12} + 4d_{12}^3 \bar{k}_{12} n_{1,12} - 4d_{13}^3 \bar{k}_{13} n_{1,13} + 4d_{15}^3 \bar{k}_{15} n_{1,15} + 12b_y{}^2 d_{16}^3 \bar{k}_{16} n_{1,16} - 4d_{16}^3 \bar{k}_{16} n_{1,16} - 12b_y{}^2 d_{18}^3 \bar{k}_{18} n_{1,18} + 4d_{18}^3 \bar{k}_{18} n_{1,18} + 12b_y{}^2 d_{19}^3 \bar{k}_{19} n_{1,19} - 4d_{19}^3 \bar{k}_{19} n_{1,19} - 12b_y{}^2 d_{21}^3 \bar{k}_{21} n_{1,21} + 4d_{21}^3 \bar{k}_{21} n_{1,21} - 4d_{22}^3 \bar{k}_{22} n_{1,22} + 4d_{24}^3 \bar{k}_{24} n_{1,24} + 12b_y{}^2 d_{25}^3 \bar{k}_{25} n_{1,25} - 4d_{25}^3 \bar{k}_{25} n_{1,25} - 12b_y{}^2 d_{27}^3 \bar{k}_{27} n_{1,27} + 4d_{27}^3 \bar{k}_{27} n_{1,27} - 12b_y{}^2 d_3^3 \bar{k}_3 n_{1,3} + 4d_3^3 \bar{k}_3 n_{1,3} - 4d_4^3 \bar{k}_4 n_{1,4} + 4d_6^3 \bar{k}_6 n_{1,6} + 12b_y{}^2 d_7^3 \bar{k}_7 n_{1,7} - 4d_7^3 \bar{k}_7 n_{1,7} - 12b_y{}^2 d_9^3 \bar{k}_9 n_{1,9} + 4d_9^3 \bar{k}_9 n_{1,9} - 4d_{10}^3 \bar{k}_{10}(-3n_{1,10} b_y{}^2 + (b_y{}^2 - 3) n_{2,10} b_y + n_{1,10}) - 4b_y{}^3 d_{11}^3 \bar{k}_{11} n_{2,11} - 4b_y{}^3 d_{12}^3 \bar{k}_{12} n_{2,12} + 12b_y d_{12}^3 \bar{k}_{12} n_{2,12} + 4b_y{}^3 d_{16}^3 \bar{k}_{16} n_{2,16} - 12b_y d_{16}^3 \bar{k}_{16} n_{2,16} + 4b_y{}^3 d_{17}^3 \bar{k}_{17} n_{2,17} + 4b_y{}^3 d_{18}^3 \bar{k}_{18} n_{2,18} - 12b_y d_{18}^3 \bar{k}_{18} n_{2,18} - 4b_y{}^3 d_{19}^3 \bar{k}_{19} n_{2,19} + 12b_y d_{19}^3 \bar{k}_{19} n_{2,19} - 4b_y{}^3 d_2^3 \bar{k}_2 n_{2,2} - 4b_y{}^3 d_{20}^3 \bar{k}_{20} n_{2,20} - 4b_y{}^3 d_{21}^3 \bar{k}_{21} n_{2,21} + 12b_y d_{21}^3 \bar{k}_{21} n_{2,21} + 4b_y{}^3 d_{25}^3 \bar{k}_{25} n_{2,25} - 12b_y d_{25}^3 \bar{k}_{25} n_{2,25} + 4b_y{}^3 d_{26}^3 \bar{k}_{26} n_{2,26} + 4b_y{}^3 d_{27}^3 \bar{k}_{27} n_{2,27} - 12b_y d_{27}^3 \bar{k}_{27} n_{2,27} - 4b_y{}^3 d_3^3 \bar{k}_3 n_{2,3} + 12b_y d_3^3 \bar{k}_3 n_{2,3} + 4b_y{}^3 d_7^3 \bar{k}_7 n_{2,7} - 12b_y d_7^3 \bar{k}_7 n_{2,7} + 4b_y{}^3 d_8^3 \bar{k}_8 n_{2,8} + 4b_y{}^3 d_9^3 \bar{k}_9 n_{2,9} - 12b_y d_9^3 \bar{k}_9 n_{2,9})$

$b_{22} = \frac{1}{6}(b_z{}^3(d_1^4 k_1 - d_1^3 \bar{k}_1 n_{1,1} - d_{19}^4 k_{19} + d_{19}^3 \bar{k}_{19} n_{1,19} - d_2^3 \bar{k}_2 n_{1,2} + d_{20}^3 \bar{k}_{20} n_{1,20} + d_{21}^4 k_{21} + d_{21}^3 \bar{k}_{21} n_{1,21} - d_{22}^4 k_{22} + d_{22}^3 \bar{k}_{22} n_{1,22} + d_{23}^3 \bar{k}_{23} n_{1,23} + d_{24}^4 k_{24} + d_{24}^3 \bar{k}_{24} n_{1,24} - d_{25}^4 k_{25} + d_{25}^3 \bar{k}_{25} n_{1,25} + d_{26}^3 \bar{k}_{26} n_{1,26} + d_{27}^4 k_{27} + d_{27}^3 \bar{k}_{27} n_{1,27} - d_3^4 k_3 - d_3^3 \bar{k}_3 n_{1,3} + d_4^4 k_4 - d_4^3 \bar{k}_4 n_{1,4} - d_5^3 \bar{k}_5 n_{1,5} - d_6^4 k_6 - d_6^3 \bar{k}_6 n_{1,6} + d_7^4 k_7 - d_7^3 \bar{k}_7 n_{1,7} - d_8^3 \bar{k}_8 n_{1,8} - d_9^4 k_9 - d_9^3 \bar{k}_9 n_{1,9}) - 3b_z{}^2(d_1^3 \bar{k}_1 n_{3,1} + d_{19}^3 \bar{k}_{19} n_{3,19} - d_{21}^3 \bar{k}_{21} n_{3,21} + d_{22}^3 \bar{k}_{22} n_{3,22} - d_{24}^3 \bar{k}_{24} n_{3,24} + d_{25}^3 \bar{k}_{25} n_{3,25} - d_{27}^3 \bar{k}_{27} n_{3,27} - d_3^3 \bar{k}_3 n_{3,3} + d_4^3 \bar{k}_4 n_{3,4} - d_6^3 \bar{k}_6 n_{3,6} + d_7^3 \bar{k}_7 n_{3,7} - d_9^3 \bar{k}_9 n_{3,9}) + b_z(d_1^4(-k_1) + 3d_1^3 \bar{k}_1 n_{1,1} + d_{19}^4 k_{19} - 3d_{19}^3 \bar{k}_{19} n_{1,19} - d_{21}^4 k_{21} - 3d_{21}^3 \bar{k}_{21} n_{1,21} + d_{22}^4 k_{22} - 3d_{22}^3 \bar{k}_{22} n_{1,22} - d_{24}^4 k_{24} - 3d_{24}^3 \bar{k}_{24} n_{1,24} + d_{25}^4 k_{25} - 3d_{25}^3 \bar{k}_{25} n_{1,25} - d_{27}^4 k_{27} - 3d_{27}^3 \bar{k}_{27} n_{1,27} + d_3^4 k_3 + 3d_3^3 \bar{k}_3 n_{1,3} - d_4^4 k_4 + 3d_4^3 \bar{k}_4 n_{1,4} + d_6^4 k_6 + 3d_6^3 \bar{k}_6 n_{1,6} - d_7^4 k_7 + 3d_7^3 \bar{k}_7 n_{1,7} + d_9^4 k_9 + 3d_9^3 \bar{k}_9 n_{1,9}) + d_1^3 \bar{k}_1 n_{3,1} + d_{10}^3 \bar{k}_{10} n_{3,10} - d_{12}^3 \bar{k}_{12} n_{3,12} + d_{13}^3 \bar{k}_{13} n_{3,13} - d_{15}^3 \bar{k}_{15} n_{3,15} + d_{16}^3 \bar{k}_{16} n_{3,16} - d_{18}^3 \bar{k}_{18} n_{3,18} + d_{19}^3 \bar{k}_{19} n_{3,19} - d_{21}^3 \bar{k}_{21} n_{3,21} + d_{22}^3 \bar{k}_{22} n_{3,22} - d_{24}^3 \bar{k}_{24} n_{3,24} + d_{25}^3 \bar{k}_{25} n_{3,25} - d_{27}^3 \bar{k}_{27} n_{3,27} - d_3^3 \bar{k}_3 n_{3,3} + d_4^3 \bar{k}_4 n_{3,4} - d_6^3 \bar{k}_6 n_{3,6} + d_7^3 \bar{k}_7 n_{3,7} - d_9^3 \bar{k}_9 n_{3,9})$

$b_{23} = \frac{1}{6}(b_y((3b_z{}^2 - 1) d_1^4 k_1 - 3d_1^3 \bar{k}_1((b_z{}^2 - 1) n_{1,1} + 2b_z n_{3,1}) + 3b_z{}^2 d_{19}^4 k_{19} - 3b_z{}^2 d_{19}^3 \bar{k}_{19} n_{1,19} - 3b_z{}^2 d_2^3 \bar{k}_2 n_{1,2} - 3b_z{}^2 d_{20}^3 \bar{k}_{20} n_{1,20} - 3b_z{}^2 d_{21}^4 k_{21} - 3b_z{}^2 d_{21}^3 \bar{k}_{21} n_{1,21} - 3b_z{}^2 d_{25}^4 k_{25} + 3b_z{}^2 d_{25}^3 \bar{k}_{25} n_{1,25} + 3b_z{}^2 d_{26}^3 \bar{k}_{26} n_{1,26} + 3b_z{}^2 d_{27}^4 k_{27} + 3b_z{}^2 d_{27}^3 \bar{k}_{27} n_{1,27} - 3b_z{}^2 d_3^4 k_3 - 3b_z{}^2 d_3^3 \bar{k}_3 n_{1,3} - 3b_z{}^2 d_7^4 k_7 + 3b_z{}^2 d_7^3 \bar{k}_7 n_{1,7} + 3b_z{}^2 d_8^3 \bar{k}_8 n_{1,8} + 3b_z{}^2 d_9^4 k_9 + 3b_z{}^2 d_9^3 \bar{k}_9 n_{1,9} + 6b_z d_{19}^3 \bar{k}_{19} n_{3,19} - 6b_z d_{21}^3 \bar{k}_{21} n_{3,21} - 6b_z d_{25}^3 \bar{k}_{25} n_{3,25} + 6b_z d_{27}^3 \bar{k}_{27} n_{3,27} + 6b_z d_3^3 \bar{k}_3 n_{3,3} + 6b_z d_7^3 \bar{k}_7 n_{3,7} - 6b_z d_9^3 \bar{k}_9 n_{3,9} - d_{10}^4 k_{10} + 3d_{10}^3 \bar{k}_{10} n_{1,10} + d_{12}^4 k_{12} + 3d_{12}^3 \bar{k}_{12} n_{1,12} + d_{16}^4 k_{16} - 3d_{16}^3 \bar{k}_{16} n_{1,16} - d_{18}^4 k_{18} - 3d_{18}^3 \bar{k}_{18} n_{1,18} - d_{19}^4 k_{19} + 3d_{19}^3 \bar{k}_{19} n_{1,19} + d_{21}^4 k_{21} + 3d_{21}^3 \bar{k}_{21} n_{1,21} + d_{25}^4 k_{25} - 3d_{25}^3 \bar{k}_{25} n_{1,25} - d_{27}^4 k_{27} - 3d_{27}^3 \bar{k}_{27} n_{1,27} + d_3^4 k_3 + 3d_3^3 \bar{k}_3 n_{1,3} + d_7^4 k_7 - 3d_7^3 \bar{k}_7 n_{1,7} - d_9^4 k_9 - 3d_9^3 \bar{k}_9 n_{1,9}) + (1 - 3b_z{}^2) d_1^3 \bar{k}_1 n_{2,1} - 3b_z{}^2 d_{19}^3 \bar{k}_{19} n_{2,19} + 3b_z{}^2 d_{21}^3 \bar{k}_{21} n_{2,21} - 3b_z{}^2 d_{22}^3 \bar{k}_{22} n_{2,22} + 3b_z{}^2 d_{24}^3 \bar{k}_{24} n_{2,24} - 3b_z{}^2 d_{25}^3 \bar{k}_{25} n_{2,25} + 3b_z{}^2 d_{27}^3 \bar{k}_{27} n_{2,27} + 3b_z{}^2 d_3^3 \bar{k}_3 n_{2,3} - 3b_z{}^2 d_4^3 \bar{k}_4 n_{2,4} + 3b_z{}^2 d_6^3 \bar{k}_6 n_{2,6} - 3b_z{}^2 d_7^3 \bar{k}_7 n_{2,7} + 3b_z{}^2 d_9^3 \bar{k}_9 n_{2,9} + d_{10}^3 \bar{k}_{10} n_{2,10} - d_{12}^3 \bar{k}_{12} n_{2,12} + d_{13}^3 \bar{k}_{13} n_{2,13} - d_{15}^3 \bar{k}_{15} n_{2,15} + d_{16}^3 \bar{k}_{16} n_{2,16} - d_{18}^3 \bar{k}_{18} n_{2,18} + d_{19}^3 \bar{k}_{19} n_{2,19} - d_{21}^3 \bar{k}_{21} n_{2,21} + d_{22}^3 \bar{k}_{22} n_{2,22} - d_{24}^3 \bar{k}_{24} n_{2,24} + d_{25}^3 \bar{k}_{25} n_{2,25} - d_{27}^3 \bar{k}_{27} n_{2,27} - d_3^3 \bar{k}_3 n_{2,3} + d_4^3 \bar{k}_4 n_{2,4} - d_6^3 \bar{k}_6 n_{2,6} + d_7^3 \bar{k}_7 n_{2,7} - d_9^3 \bar{k}_9 n_{2,9})$

$b_{24} = \frac{1}{6}(b_z((3b_y{}^2 - 1) d_1^4 k_1 - 3d_1^3 \bar{k}_1((b_y{}^2 - 1) n_{1,1} + 2b_y n_{2,1}) + d_{19}^4(k_{19} - 3b_y{}^2 k_{19}) + 3d_{19}^3 \bar{k}_{19}((b_y{}^2 - 1) n_{1,19} + 2b_y n_{2,19}) - 3b_y{}^2 d_2^3 \bar{k}_2 n_{1,2} + 3b_y{}^2 d_{20}^3 \bar{k}_{20} n_{1,20} + 3b_y{}^2 d_{21}^4 k_{21} + 3b_y{}^2 d_{21}^3 \bar{k}_{21} n_{1,21} - 3b_y{}^2 d_{25}^4 k_{25} + 3b_y{}^2 d_{25}^3 \bar{k}_{25} n_{1,25} +$

$3{b_y}^2 d_{26}^3 \bar{k}_{26} n_{1,26} + 3{b_y}^2 d_{27}^4 k_{27} + 3{b_y}^2 d_{27}^3 \bar{k}_{27} n_{1,27} - 3{b_y}^2 d_3^4 k_3 - 3{b_y}^2 d_3^3 \bar{k}_3 n_{1,3} + 3{b_y}^2 d_7^4 k_7 - 3{b_y}^2 d_7^3 \bar{k}_7 n_{1,7} - 3{b_y}^2 d_8^3 \bar{k}_8 n_{1,8} - 3{b_y}^2 d_9^4 k_9 - 3{b_y}^2 d_9^3 \bar{k}_9 n_{1,9} - 6 b_y d_{21}^3 \bar{k}_{21} n_{2,21} - 6 b_y d_{25}^3 \bar{k}_{25} n_{2,25} + 6 b_y d_{27}^3 \bar{k}_{27} n_{2,27} + 6 b_y d_3^3 \bar{k}_3 n_{2,3} + 6 b_y d_7^3 \bar{k}_7 n_{2,7} - 6 b_y d_9^3 \bar{k}_9 n_{2,9} - d_{21}^4 k_{21} - 3 d_{21}^3 \bar{k}_{21} n_{1,21} + d_{22}^4 k_{22} - 3 d_{22}^3 \bar{k}_{22} n_{1,22} - d_{24}^4 k_{24} - 3 d_{24}^3 \bar{k}_{24} n_{1,24} + d_{25}^4 k_{25} - 3 d_{25}^3 \bar{k}_{25} n_{1,25} - d_{27}^4 k_{27} - 3 d_{27}^3 \bar{k}_{27} n_{1,27} + d_3^4 k_3 + 3 d_3^3 \bar{k}_3 n_{1,3} - d_4^4 k_4 + 3 d_4^3 \bar{k}_4 n_{1,4} + d_6^4 k_6 + 3 d_6^3 \bar{k}_6 n_{1,6} - d_7^4 k_7 + 3 d_7^3 \bar{k}_7 n_{1,7} + d_9^4 k_9 + 3 d_9^3 \bar{k}_9 n_{1,9}) + (1 - 3{b_y}^2) d_1^3 \bar{k}_1 n_{3,1} - 3{b_y}^2 d_{10}^3 \bar{k}_{10} n_{3,10} + 3{b_y}^2 d_{12}^3 \bar{k}_{12} n_{3,12} - 3{b_y}^2 d_{16}^3 \bar{k}_{16} n_{3,16} + 3{b_y}^2 d_{18}^3 \bar{k}_{18} n_{3,18} - 3{b_y}^2 d_{19}^3 \bar{k}_{19} n_{3,19} + 3{b_y}^2 d_{21}^3 \bar{k}_{21} n_{3,21} - 3{b_y}^2 d_{25}^3 \bar{k}_{25} n_{3,25} + 3{b_y}^2 d_{27}^3 \bar{k}_{27} n_{3,27} + 3{b_y}^2 d_3^3 \bar{k}_3 n_{3,3} - 3{b_y}^2 d_7^3 \bar{k}_7 n_{3,7} + 3{b_y}^2 d_9^3 \bar{k}_9 n_{3,9} + d_{10}^3 \bar{k}_{10} n_{3,10} - d_{12}^3 \bar{k}_{12} n_{3,12} + d_{13}^3 \bar{k}_{13} n_{3,13} - d_{15}^3 \bar{k}_{15} n_{3,15} + d_{16}^3 \bar{k}_{16} n_{3,16} - d_{18}^3 \bar{k}_{18} n_{3,18} + d_{19}^3 \bar{k}_{19} n_{3,19} - d_{21}^3 \bar{k}_{21} n_{3,21} + d_{22}^3 \bar{k}_{22} n_{3,22} - d_{24}^3 \bar{k}_{24} n_{3,24} + d_{25}^3 \bar{k}_{25} n_{3,25} - d_{27}^3 \bar{k}_{27} n_{3,27} - d_3^3 \bar{k}_3 n_{3,3} + d_4^3 \bar{k}_4 n_{3,4} - d_6^3 \bar{k}_6 n_{3,6} + d_7^3 \bar{k}_7 n_{3,7} - d_9^3 \bar{k}_9 n_{3,9})$

$b_{25} = \frac{1}{6}({b_y}^3 (d_1^4 k_1 - d_1^3 \bar{k}_1 n_{1,1} + d_{10}^4 k_{10} - d_{10}^3 \bar{k}_{10} n_{1,10} - d_{11}^3 \bar{k}_{11} n_{1,11} - d_{12}^4 k_{12} - d_{12}^3 \bar{k}_{12} n_{1,12} - d_{16}^4 k_{16} + d_{16}^3 \bar{k}_{16} n_{1,16} + d_{17}^3 \bar{k}_{17} n_{1,17} + d_{18}^4 k_{18} + d_{18}^3 \bar{k}_{18} n_{1,18} + d_{19}^4 k_{19} - d_{19}^3 \bar{k}_{19} n_{1,19} - d_2^3 \bar{k}_2 n_{1,2} - d_{20}^3 \bar{k}_{20} n_{1,20} - d_{21}^4 k_{21} - d_{21}^3 \bar{k}_{21} n_{1,21} - d_{25}^4 k_{25} + d_{25}^3 \bar{k}_{25} n_{1,25} + d_{26}^3 \bar{k}_{26} n_{1,26} + d_{27}^4 k_{27} + d_{27}^3 \bar{k}_{27} n_{1,27} - d_3^4 k_3 - d_3^3 \bar{k}_3 n_{1,3} - d_7^4 k_7 + d_7^3 \bar{k}_7 n_{1,7} + d_8^3 \bar{k}_8 n_{1,8} + d_9^4 k_9 + d_9^3 \bar{k}_9 n_{1,9}) - 3 b_y (d_1^3 \bar{k}_1 n_{2,1} + d_{10}^3 \bar{k}_{10} n_{2,10} - d_{12}^3 \bar{k}_{12} n_{2,12} + d_{16}^3 \bar{k}_{16} n_{2,16} - d_{18}^3 \bar{k}_{18} n_{2,18} + d_{19}^3 \bar{k}_{19} n_{2,19} - d_{21}^3 \bar{k}_{21} n_{2,21} + d_{25}^3 \bar{k}_{25} n_{2,25} - d_{27}^3 \bar{k}_{27} n_{2,27} - d_3^3 \bar{k}_3 n_{2,3} + d_7^3 \bar{k}_7 n_{2,7} - d_9^3 \bar{k}_9 n_{2,9}) + b_y (d_1^4 (-k_1) + 3 d_1^3 \bar{k}_1 n_{1,1} - d_{10}^4 k_{10} + 3 d_{10}^3 \bar{k}_{10} n_{1,10} + d_{12}^4 k_{12} + 3 d_{12}^3 \bar{k}_{12} n_{1,12} + d_{16}^4 k_{16} - 3 d_{16}^3 \bar{k}_{16} n_{1,16} - d_{18}^4 k_{18} - 3 d_{18}^3 \bar{k}_{18} n_{1,18} - d_{19}^4 k_{19} + 3 d_{19}^3 \bar{k}_{19} n_{1,19} + d_{21}^4 k_{21} + 3 d_{21}^3 \bar{k}_{21} n_{1,21} + d_{25}^4 k_{25} - 3 d_{25}^3 \bar{k}_{25} n_{1,25} - d_{27}^4 k_{27} - 3 d_{27}^3 \bar{k}_{27} n_{1,27} + d_3^4 k_3 + 3 d_3^3 \bar{k}_3 n_{1,3} + d_7^4 k_7 - 3 d_7^3 \bar{k}_7 n_{1,7} - d_9^4 k_9 - 3 d_9^3 \bar{k}_9 n_{1,9}) + d_1^3 \bar{k}_1 n_{2,1} + d_{10}^3 \bar{k}_{10} n_{2,10} - d_{12}^3 \bar{k}_{12} n_{2,12} + d_{13}^3 \bar{k}_{13} n_{2,13} - d_{15}^3 \bar{k}_{15} n_{2,15} + d_{16}^3 \bar{k}_{16} n_{2,16} - d_{18}^3 \bar{k}_{18} n_{2,18} + d_{19}^3 \bar{k}_{19} n_{2,19} - d_{21}^3 \bar{k}_{21} n_{2,21} + d_{22}^3 \bar{k}_{22} n_{2,22} - d_{24}^3 \bar{k}_{24} n_{2,24} + d_{25}^3 \bar{k}_{25} n_{2,25} - d_{27}^3 \bar{k}_{27} n_{2,27} - d_3^3 \bar{k}_3 n_{2,3} + d_4^3 \bar{k}_4 n_{2,4} - d_6^3 \bar{k}_6 n_{2,6} + d_7^3 \bar{k}_7 n_{2,7} - d_9^3 \bar{k}_9 n_{2,9})$

$b_{26} = \frac{1}{120}({b_z}^5 (d_1^5 (-k_1) + d_{19}^5 k_{19} - d_2^5 k_2 + d_{20}^5 k_{20} + d_{21}^5 k_{21} + d_{22}^5 k_{22} + d_{23}^5 k_{23} + d_{24}^5 k_{24} + d_{25}^5 k_{25} + d_{26}^5 k_{26} + d_{27}^5 k_{27} - d_3^5 k_3 - d_4^5 k_4 - d_5^5 k_5 - d_6^5 k_6 - d_7^5 k_7 - d_8^5 k_8 - d_9^5 k_9) + 5{b_z}^4 (d_1^4 \bar{k}_1 n_{3,1} + d_{19}^4 \bar{k}_{19} n_{3,19} + d_2^4 \bar{k}_2 n_{3,2} + d_{20}^4 \bar{k}_{20} n_{3,20} + d_{21}^4 \bar{k}_{21} n_{3,21} + d_{22}^4 \bar{k}_{22} n_{3,22} + d_{23}^4 \bar{k}_{23} n_{3,23} + d_{24}^4 \bar{k}_{24} n_{3,24} + d_{25}^4 \bar{k}_{25} n_{3,25} + d_{26}^4 \bar{k}_{26} n_{3,26} + d_{27}^4 \bar{k}_{27} n_{3,27} + d_3^4 \bar{k}_3 n_{3,3} + d_4^4 \bar{k}_4 n_{3,4} + d_5^4 \bar{k}_5 n_{3,5} + d_6^4 \bar{k}_6 n_{3,6} + d_7^4 \bar{k}_7 n_{3,7} + d_8^4 \bar{k}_8 n_{3,8} + d_9^4 \bar{k}_9 n_{3,9}) + 10{b_z}^3 (d_1^5 k_1 - 2 d_1^4 \bar{k}_1 n_{1,1} - d_{19}^5 k_{19} + 2 d_{19}^4 \bar{k}_{19} n_{1,19} - d_{21}^5 k_{21} - 2 d_{21}^4 \bar{k}_{21} n_{1,21} - d_{22}^5 k_{22} + 2 d_{22}^4 \bar{k}_{22} n_{1,22} - d_{24}^5 k_{24} - 2 d_{24}^4 \bar{k}_{24} n_{1,24} - d_{25}^5 k_{25} + 2 d_{25}^4 \bar{k}_{25} n_{1,25} - d_{27}^5 k_{27} - 2 d_{27}^4 \bar{k}_{27} n_{1,27} + d_3^5 k_3 + 2 d_3^4 \bar{k}_3 n_{1,3} + d_4^5 k_4 - 2 d_4^4 \bar{k}_4 n_{1,4} + d_6^5 k_6 + 2 d_6^4 \bar{k}_6 n_{1,6} + d_7^5 k_7 - 2 d_7^4 \bar{k}_7 n_{1,7} + d_9^5 k_9 + 2 d_9^4 \bar{k}_9 n_{1,9}) - 30{b_z}^2 (d_1^4 \bar{k}_1 n_{3,1} + d_{19}^4 \bar{k}_{19} n_{3,19} + d_{21}^4 \bar{k}_{21} n_{3,21} + d_{22}^4 \bar{k}_{22} n_{3,22} + d_{24}^4 \bar{k}_{24} n_{3,24} + d_{25}^4 \bar{k}_{25} n_{3,25} + d_{27}^4 \bar{k}_{27} n_{3,27} + d_3^4 \bar{k}_3 n_{3,3} + d_4^4 \bar{k}_4 n_{3,4} + d_6^4 \bar{k}_6 n_{3,6} + d_7^4 \bar{k}_7 n_{3,7} + d_9^4 \bar{k}_9 n_{3,9}) - 5 b_z (d_1^5 k_1 - 4 d_1^4 \bar{k}_1 n_{1,1} - d_{19}^5 k_{19} + 4 d_{19}^4 \bar{k}_{19} n_{1,19} - d_{21}^5 k_{21} - 4 d_{21}^4 \bar{k}_{21} n_{1,21} - d_{22}^5 k_{22} + 4 d_{22}^4 \bar{k}_{22} n_{1,22} - d_{24}^5 k_{24} - 4 d_{24}^4 \bar{k}_{24} n_{1,24} - d_{25}^5 k_{25} + 4 d_{25}^4 \bar{k}_{25} n_{1,25} - d_{27}^5 k_{27} - 4 d_{27}^4 \bar{k}_{27} n_{1,27} + d_3^5 k_3 + 4 d_3^4 \bar{k}_3 n_{1,3} + d_4^5 k_4 - 4 d_4^4 \bar{k}_4 n_{1,4} + d_6^5 k_6 + 4 d_6^4 \bar{k}_6 n_{1,6} + d_7^5 k_7 - 4 d_7^4 \bar{k}_7 n_{1,7} + d_9^5 k_9 + 4 d_9^4 \bar{k}_9 n_{1,9}) + 5 (d_1^4 \bar{k}_1 n_{3,1} + d_{10}^4 \bar{k}_{10} n_{3,10} + d_{12}^4 \bar{k}_{12} n_{3,12} + d_{13}^4 \bar{k}_{13} n_{3,13} + d_{15}^4 \bar{k}_{15} n_{3,15} + d_{16}^4 \bar{k}_{16} n_{3,16} + d_{18}^4 \bar{k}_{18} n_{3,18} + d_{19}^4 \bar{k}_{19} n_{3,19} + d_{21}^4 \bar{k}_{21} n_{3,21} + d_{22}^4 \bar{k}_{22} n_{3,22} + d_{24}^4 \bar{k}_{24} n_{3,24} + d_{25}^4 \bar{k}_{25} n_{3,25} + d_{27}^4 \bar{k}_{27} n_{3,27} + d_3^4 \bar{k}_3 n_{3,3} + d_4^4 \bar{k}_4 n_{3,4} + d_6^4 \bar{k}_6 n_{3,6} + d_7^4 \bar{k}_7 n_{3,7} + d_9^4 \bar{k}_9 n_{3,9}))$

$b_{27} = \frac{1}{24}(-b_y {b_z}^4 d_2^5 k_2 - b_y {b_z}^4 d_{20}^5 k_{20} + b_y {b_z}^4 d_{26}^5 k_{26} + b_y {b_z}^4 d_8^5 k_8 + {b_z}^3 d_2^4 \bar{k}_2 (4 b_y n_{3,2} + b_z n_{2,2}) + {b_z}^3 d_{20}^4 \bar{k}_{20} (b_z n_{2,20} - 4 b_y n_{3,20}) + {b_z}^3 d_{26}^4 \bar{k}_{26} (4 b_y n_{3,26} + b_z n_{2,26}) + {b_z}^3 d_8^4 \bar{k}_8 (b_z n_{2,8} - 4 b_y n_{3,8}) - b_y ({b_z}^4 - 6{b_z}^2 + 1) d_1^5 k_1 + d_1^4 \bar{k}_1 (4 b_y (-3{b_z}^2 n_{1,1} + ({b_z}^2 - 3) b_z n_{3,1} + n_{1,1}) + ({b_z}^4 - 6{b_z}^2 + 1) n_{2,1}) - b_y ({b_z}^4 - 6{b_z}^2 + 1) d_{19}^5 k_{19} + d_{19}^4 \bar{k}_{19} (({b_z}^4 - 6{b_z}^2 + 1) n_{2,19} - 4 b_y ((3{b_z}^2 - 1) n_{1,19} + b_z ({b_z}^2 - 3) n_{3,19})) - b_y ({b_z}^4 - 6{b_z}^2 + 1) d_{21}^5 k_{21} + d_{21}^4 \bar{k}_{21} (({b_z}^4 - 6{b_z}^2 + 1) n_{2,21} - 4 b_y (-3{b_z}^2 n_{1,21} + ({b_z}^2 - 3) b_z n_{3,21} + n_{1,21})) + b_y ({b_z}^4 - 6{b_z}^2 + 1) d_{25}^5 k_{25} + d_{25}^4 \bar{k}_{25} (4 b_y ((3{b_z}^2 - 1) n_{1,25} + b_z ({b_z}^2 - 3) n_{3,25}) + ({b_z}^4 - 6{b_z}^2 + 1) n_{2,25}) + b_y ({b_z}^4 - 6{b_z}^2 + 1) d_{27}^5 k_{27} + d_{27}^4 \bar{k}_{27} (4 b_y (-3{b_z}^2 n_{1,27} + ({b_z}^2 - 3) b_z n_{3,27} + n_{1,27}) + ({b_z}^4 - 6{b_z}^2 + 1) n_{2,27}) - b_y ({b_z}^4 - 6{b_z}^2 + 1) d_3^5 k_3 + d_3^4 \bar{k}_3 (4 b_y ((3{b_z}^2 - 1) n_{1,3} + b_z ({b_z}^2 - 3) n_{3,3}) + ({b_z}^4 - 6{b_z}^2 + 1) n_{2,3}) + b_y ({b_z}^4 - 6{b_z}^2 + 1) d_7^5 k_7 + d_7^4 \bar{k}_7 (({b_z}^4 - 6{b_z}^2 + 1) n_{2,7} - 4 b_y (-3{b_z}^2 n_{1,7} + ({b_z}^2 - 3) b_z n_{3,7} + n_{1,7})) + b_y ({b_z}^4 - 6{b_z}^2 + 1) d_9^5 k_9 + d_9^4 \bar{k}_9 (({b_z}^4 - 6{b_z}^2 + 1) n_{2,9} - 4 b_y ((3{b_z}^2 - 1) n_{1,9} + b_z ({b_z}^2 - 3) n_{3,9})) - b_y d_{10}^5 k_{10} + d_{10}^4 \bar{k}_{10} (4 b_y n_{1,10} + n_{2,10}) - b_y d_{12}^5 k_{12} + d_{12}^4 \bar{k}_{12} (n_{2,12} - 4 b_y n_{1,12}) + b_y d_{16}^5 k_{16} + d_{16}^4 \bar{k}_{16} (n_{2,16} - 4 b_y n_{1,16}) + b_y d_{18}^5 k_{18} + d_{18}^4 \bar{k}_{18} (4 b_y n_{1,18} + n_{2,18}) + {b_z}^4 d_{23}^4 \bar{k}_{23} n_{2,23} + {b_z}^4 d_5^4 \bar{k}_5 n_{2,5} + ({b_z}^4 - 6{b_z}^2 + 1) d_{22}^4 \bar{k}_{22} n_{2,22} + ({b_z}^4 - 6{b_z}^2 + 1) d_{24}^4 \bar{k}_{24} n_{2,24} + ({b_z}^4 - 6{b_z}^2 + 1) d_4^4 \bar{k}_4 n_{2,4} +$

$(b_z{}^4 - 6b_z{}^2 + 1)d_6^4\bar{k}_6 n_{2,6} + d_{13}^4\bar{k}_{13}n_{2,13} + d_{15}^4\bar{k}_{15}n_{2,15})$

$b_{28} = \frac{1}{12}((1 - 3b_y{}^2)\bar{k}_1 n_{3,1}d_1^4 + b_z{}^3((k_1 - b_y{}^2 k_1)d_1^5 - 2\bar{k}_1(n_{1,1} - b_y n_{2,1})d_1^4 + (b_y{}^2 - 1)d_{19}^5 k_{19} - b_y{}^2 d_2^5 k_2 + b_y{}^2 d_{20}^5 k_{20} + b_y{}^2 d_{21}^5 k_{21} - d_{21}^5 k_{21} - d_{22}^5 k_{22} - d_{24}^5 k_{24} + b_y{}^2 d_{25}^5 k_{25} - d_{25}^5 k_{25} + b_y{}^2 d_{26}^5 k_{26} + b_y{}^2 d_{27}^5 k_{27} - d_{27}^5 k_{27} - b_y{}^2 d_3^5 k_3 + d_3^5 k_3 + d_4^5 k_4 + d_6^5 k_6 - b_y{}^2 d_7^5 k_7 + d_7^5 k_7 - b_y{}^2 d_8^5 k_8 - b_y{}^2 d_9^5 k_9 + d_9^5 k_9 - 2d_{21}^4\bar{k}_{21}n_{1,21} + 2d_{22}^4\bar{k}_{22}n_{1,22} - 2d_{24}^4\bar{k}_{24}n_{1,24} + 2d_{25}^4\bar{k}_{25}n_{1,25} - 2d_{27}^4\bar{k}_{27}n_{1,27} + 2d_3^4\bar{k}_3 n_{1,3} - 2d_4^4\bar{k}_4 n_{1,4} + 2d_6^4\bar{k}_6 n_{1,6} - 2d_7^4\bar{k}_7 n_{1,7} + 2d_9^4\bar{k}_9 n_{1,9} + 2d_{19}^4\bar{k}_{19}(n_{1,19} - b_y n_{2,19}) + 2b_y d_2^4\bar{k}_2 n_{2,2} - 2b_y d_{20}^4\bar{k}_{20}n_{2,20} - 2b_y d_{21}^4\bar{k}_{21}n_{2,21} + 2b_y d_{25}^4\bar{k}_{25}n_{2,25} + 2b_y d_{26}^4\bar{k}_{26}n_{2,26} + 2b_y d_{27}^4\bar{k}_{27}n_{2,27} + 2b_y d_3^4\bar{k}_3 n_{2,3} - 2b_y d_7^4\bar{k}_7 n_{2,7} - 2b_y d_8^4\bar{k}_8 n_{2,8} - 2b_y d_9^4\bar{k}_9 n_{2,9}) + b_z((3b_y{}^2 - 1)k_1 d_1^5 - 2\bar{k}_1((3b_y{}^2 - 2)n_{1,1} + 3b_y n_{2,1})d_1^4 + d_{19}^5(k_{19} - 3b_y{}^2 k_{19}) - 3b_y{}^2 d_{21}^5 k_{21} + d_{21}^5 k_{21} + d_{22}^5 k_{22} + d_{24}^5 k_{24} - 3b_y{}^2 d_{25}^5 k_{25} + d_{25}^5 k_{25} - 3b_y{}^2 d_{27}^5 k_{27} + d_{27}^5 k_{27} + 3b_y{}^2 d_3^5 k_3 - d_3^5 k_3 - d_4^5 k_4 - d_6^5 k_6 + 3b_y{}^2 d_7^5 k_7 - d_7^5 k_7 + 3b_y{}^2 d_9^5 k_9 - d_9^5 k_9 - 6b_y{}^2 d_{21}^4\bar{k}_{21}n_{1,21} + 4d_{21}^4\bar{k}_{21}n_{1,21} - 4d_{22}^4\bar{k}_{22}n_{1,22} + 4d_{24}^4\bar{k}_{24}n_{1,24} + 6b_y{}^2 d_{25}^4\bar{k}_{25}n_{1,25} - 4d_{25}^4\bar{k}_{25}n_{1,25} - 6b_y{}^2 d_{27}^4\bar{k}_{27}n_{1,27} + 4d_{27}^4\bar{k}_{27}n_{1,27} + 6b_y{}^2 d_3^4\bar{k}_3 n_{1,3} - 4d_3^4\bar{k}_3 n_{1,3} + 4d_4^4\bar{k}_4 n_{1,4} - 4d_6^4\bar{k}_6 n_{1,6} - 6b_y{}^2 d_7^4\bar{k}_7 n_{1,7} + 4d_7^4\bar{k}_7 n_{1,7} + 6b_y{}^2 d_9^4\bar{k}_9 n_{1,9} - 4d_9^4\bar{k}_9 n_{1,9} + 2d_{19}^4\bar{k}_{19}(3n_{1,19}b_y{}^2 + 3n_{2,19}b_y - 2n_{1,19}) + 6b_y d_{21}^4\bar{k}_{21}n_{2,21} - 6b_y d_{25}^4\bar{k}_{25}n_{2,25} - 6b_y d_{27}^4\bar{k}_{27}n_{2,27} - 6b_y d_3^4\bar{k}_3 n_{2,3} + 6b_y d_7^4\bar{k}_7 n_{2,7} + 6b_y d_9^4\bar{k}_9 n_{2,9}) - 3b_y{}^2 d_{10}^4\bar{k}_{10}n_{3,10} + d_{10}^4\bar{k}_{10}n_{3,10} - 3b_y{}^2 d_{12}^4\bar{k}_{12}n_{3,12} + d_{12}^4\bar{k}_{12}n_{3,12} + d_{13}^4\bar{k}_{13}n_{3,13} + d_{15}^4\bar{k}_{15}n_{3,15} - 3b_y{}^2 d_{16}^4\bar{k}_{16}n_{3,16} + d_{16}^4\bar{k}_{16}n_{3,16} - 3b_y{}^2 d_{18}^4\bar{k}_{18}n_{3,18} + d_{18}^4\bar{k}_{18}n_{3,18} - 3b_y{}^2 d_{19}^4\bar{k}_{19}n_{3,19} + d_{19}^4\bar{k}_{19}n_{3,19} - 3b_y{}^2 d_{21}^4\bar{k}_{21}n_{3,21} + d_{21}^4\bar{k}_{21}n_{3,21} + d_{22}^4\bar{k}_{22}n_{3,22} + d_{24}^4\bar{k}_{24}n_{3,24} - 3b_y{}^2 d_{25}^4\bar{k}_{25}n_{3,25} + d_{25}^4\bar{k}_{25}n_{3,25} - 3b_y{}^2 d_{27}^4\bar{k}_{27}n_{3,27} + d_{27}^4\bar{k}_{27}n_{3,27} - 3b_y{}^2 d_3^4\bar{k}_3 n_{3,3} + d_3^4\bar{k}_3 n_{3,3} + d_4^4\bar{k}_4 n_{3,4} + d_6^4\bar{k}_6 n_{3,6} - 3b_y{}^2 d_7^4\bar{k}_7 n_{3,7} + d_7^4\bar{k}_7 n_{3,7} - 3b_y{}^2 d_9^4\bar{k}_9 n_{3,9} + d_9^4\bar{k}_9 n_{3,9} + 3b_z{}^2((b_y{}^2 - 1)\bar{k}_1 n_{3,1}d_1^4 + (b_y{}^2 - 1)d_{19}^4\bar{k}_{19}n_{3,19} + b_y{}^2 d_2^4\bar{k}_2 n_{3,2} + b_y{}^2 d_{20}^4\bar{k}_{20}n_{3,20} + b_y{}^2 d_{21}^4\bar{k}_{21}n_{3,21} - d_{21}^4\bar{k}_{21}n_{3,21} - d_{22}^4\bar{k}_{22}n_{3,22} - d_{24}^4\bar{k}_{24}n_{3,24} + b_y{}^2 d_{25}^4\bar{k}_{25}n_{3,25} - d_{25}^4\bar{k}_{25}n_{3,25} + b_y{}^2 d_{26}^4\bar{k}_{26}n_{3,26} + b_y{}^2 d_{27}^4\bar{k}_{27}n_{3,27} - d_{27}^4\bar{k}_{27}n_{3,27} + b_y{}^2 d_3^4\bar{k}_3 n_{3,3} - d_3^4\bar{k}_3 n_{3,3} - d_4^4\bar{k}_4 n_{3,4} - d_6^4\bar{k}_6 n_{3,6} + b_y{}^2 d_7^4\bar{k}_7 n_{3,7} - d_7^4\bar{k}_7 n_{3,7} + b_y{}^2 d_8^4\bar{k}_8 n_{3,8} + b_y{}^2 d_9^4\bar{k}_9 n_{3,9} - d_9^4\bar{k}_9 n_{3,9}))$

$b_{29} = \frac{1}{12}((1 - 3b_z{}^2)\bar{k}_1 n_{2,1}d_1^4 + d_{10}^4\bar{k}_{10}n_{2,10} + d_{12}^4\bar{k}_{12}n_{2,12} + d_{13}^4\bar{k}_{13}n_{2,13} + d_{15}^4\bar{k}_{15}n_{2,15} + d_{16}^4\bar{k}_{16}n_{2,16} + d_{18}^4\bar{k}_{18}n_{2,18} - 3b_z{}^2 d_{19}^4\bar{k}_{19}n_{2,19} + d_{19}^4\bar{k}_{19}n_{2,19} - 3b_z{}^2 d_{21}^4\bar{k}_{21}n_{2,21} + d_{21}^4\bar{k}_{21}n_{2,21} - 3b_z{}^2 d_{22}^4\bar{k}_{22}n_{2,22} + d_{22}^4\bar{k}_{22}n_{2,22} - 3b_z{}^2 d_{24}^4\bar{k}_{24}n_{2,24} + d_{24}^4\bar{k}_{24}n_{2,24} - 3b_z{}^2 d_{25}^4\bar{k}_{25}n_{2,25} + d_{25}^4\bar{k}_{25}n_{2,25} - 3b_z{}^2 d_{27}^4\bar{k}_{27}n_{2,27} + d_{27}^4\bar{k}_{27}n_{2,27} - 3b_z{}^2 d_3^4\bar{k}_3 n_{2,3} + d_3^4\bar{k}_3 n_{2,3} - 3b_z{}^2 d_4^4\bar{k}_4 n_{2,4} + d_4^4\bar{k}_4 n_{2,4} - 3b_z{}^2 d_6^4\bar{k}_6 n_{2,6} + d_6^4\bar{k}_6 n_{2,6} - 3b_z{}^2 d_7^4\bar{k}_7 n_{2,7} + d_7^4\bar{k}_7 n_{2,7} - 3b_z{}^2 d_9^4\bar{k}_9 n_{2,9} + d_9^4\bar{k}_9 n_{2,9} + 3b_y{}^2((b_z{}^2 - 1)\bar{k}_1 n_{2,1}d_1^4 - d_{10}^4\bar{k}_{10}n_{2,10} - d_{12}^4\bar{k}_{12}n_{2,12} - d_{16}^4\bar{k}_{16}n_{2,16} - d_{18}^4\bar{k}_{18}n_{2,18} + b_z{}^2 d_{19}^4\bar{k}_{19}n_{2,19} - d_{19}^4\bar{k}_{19}n_{2,19} + b_z{}^2 d_2^4\bar{k}_2 n_{2,2} + b_z{}^2 d_{20}^4\bar{k}_{20}n_{2,20} + b_z{}^2 d_{21}^4\bar{k}_{21}n_{2,21} - d_{21}^4\bar{k}_{21}n_{2,21} + b_z{}^2 d_{25}^4\bar{k}_{25}n_{2,25} - d_{25}^4\bar{k}_{25}n_{2,25} + b_z{}^2 d_{26}^4\bar{k}_{26}n_{2,26} + b_z{}^2 d_{27}^4\bar{k}_{27}n_{2,27} - d_{27}^4\bar{k}_{27}n_{2,27} + b_z{}^2 d_3^4\bar{k}_3 n_{2,3} - d_3^4\bar{k}_3 n_{2,3} + b_z{}^2 d_7^4\bar{k}_7 n_{2,7} - d_7^4\bar{k}_7 n_{2,7} + b_z{}^2 d_8^4\bar{k}_8 n_{2,8} + b_z{}^2 d_9^4\bar{k}_9 n_{2,9} - d_9^4\bar{k}_9 n_{2,9}) + b_y{}^3((k_1 - b_z{}^2 k_1)d_1^5 - 2\bar{k}_1(n_{1,1} - b_z n_{3,1})d_1^4 + d_{10}^5 k_{10} + d_{12}^5 k_{12} - d_{16}^5 k_{16} - d_{18}^5 k_{18} - b_z{}^2 d_{19}^5 k_{19} + d_{19}^5 k_{19} - b_z{}^2 d_2^5 k_2 - b_z{}^2 d_{20}^5 k_{20} - b_z{}^2 d_{21}^5 k_{21} + d_{21}^5 k_{21} + b_z{}^2 d_{25}^5 k_{25} - d_{25}^5 k_{25} + b_z{}^2 d_{26}^5 k_{26} + b_z{}^2 d_{27}^5 k_{27} - d_{27}^5 k_{27} - b_z{}^2 d_3^5 k_3 + d_3^5 k_3 + b_z{}^2 d_7^5 k_7 - d_7^5 k_7 + b_z{}^2 d_8^5 k_8 + b_z{}^2 d_9^5 k_9 - d_9^5 k_9 - 2d_{10}^4\bar{k}_{10}n_{1,10} + 2d_{12}^4\bar{k}_{12}n_{1,12} + 2d_{16}^4\bar{k}_{16}n_{1,16} - 2d_{18}^4\bar{k}_{18}n_{1,18} - 2d_{19}^4\bar{k}_{19}n_{1,19} + 2d_{21}^4\bar{k}_{21}n_{1,21} + 2d_{25}^4\bar{k}_{25}n_{1,25} - 2d_{27}^4\bar{k}_{27}n_{1,27} + 2d_3^4\bar{k}_3 n_{1,3} + 2d_7^4\bar{k}_7 n_{1,7} - 2d_9^4\bar{k}_9 n_{1,9} - 2b_z d_{19}^4\bar{k}_{19}n_{3,19} + 2b_z d_2^4\bar{k}_2 n_{3,2} - 2b_z d_{20}^4\bar{k}_{20}n_{3,20} - 2b_z d_{21}^4\bar{k}_{21}n_{3,21} + 2b_z d_{25}^4\bar{k}_{25}n_{3,25} + 2b_z d_{26}^4\bar{k}_{26}n_{3,26} + 2b_z d_{27}^4\bar{k}_{27}n_{3,27} + 2b_z d_3^4\bar{k}_3 n_{3,3} - 2b_z d_7^4\bar{k}_7 n_{3,7} - 2b_z d_8^4\bar{k}_8 n_{3,8} - 2b_z d_9^4\bar{k}_9 n_{3,9}) + b_y((3b_z{}^2 - 1)k_1 d_1^5 - 2\bar{k}_1(3n_{1,1}b_z{}^2 + 3n_{3,1}b_z - 2n_{1,1})d_1^4 - d_{10}^5 k_{10} - d_{12}^5 k_{12} + d_{16}^5 k_{16} + d_{18}^5 k_{18} + 3b_z{}^2 d_{19}^5 k_{19} - d_{19}^5 k_{19} + 3b_z{}^2 d_{21}^5 k_{21} - d_{21}^5 k_{21} - 3b_z{}^2 d_{25}^5 k_{25} + d_{25}^5 k_{25} - 3b_z{}^2 d_{27}^5 k_{27} + d_{27}^5 k_{27} + 3b_z{}^2 d_3^5 k_3 - d_3^5 k_3 - 3b_z{}^2 d_7^5 k_7 + d_7^5 k_7 - 3b_z{}^2 d_9^5 k_9 + d_9^5 k_9 + 4d_{10}^4\bar{k}_{10}n_{1,10} - 4d_{12}^4\bar{k}_{12}n_{1,12} - 4d_{16}^4\bar{k}_{16}n_{1,16} + 4d_{18}^4\bar{k}_{18}n_{1,18} - 6b_z{}^2 d_{19}^4\bar{k}_{19}n_{1,19} + 4d_{19}^4\bar{k}_{19}n_{1,19} + 6b_z{}^2 d_{21}^4\bar{k}_{21}n_{1,21} - 4d_{21}^4\bar{k}_{21}n_{1,21} + 6b_z{}^2 d_{25}^4\bar{k}_{25}n_{1,25} - 4d_{25}^4\bar{k}_{25}n_{1,25} - 6b_z{}^2 d_{27}^4\bar{k}_{27}n_{1,27} + 4d_{27}^4\bar{k}_{27}n_{1,27} + 6b_z{}^2 d_3^4\bar{k}_3 n_{1,3} - 4d_3^4\bar{k}_3 n_{1,3} + 6b_z{}^2 d_7^4\bar{k}_7 n_{1,7} - 4d_7^4\bar{k}_7 n_{1,7} - 6b_z{}^2 d_9^4\bar{k}_9 n_{1,9} + 4d_9^4\bar{k}_9 n_{1,9} + 6b_z d_{19}^4\bar{k}_{19}n_{3,19} + 6b_z d_{21}^4\bar{k}_{21}n_{3,21} - 6b_z d_{25}^4\bar{k}_{25}n_{3,25} - 6b_z d_{27}^4\bar{k}_{27}n_{3,27} - 6b_z d_3^4\bar{k}_3 n_{3,3} + 6b_z d_7^4\bar{k}_7 n_{3,7} + 6b_z d_9^4\bar{k}_9 n_{3,9}))$

$b_{30} = \frac{1}{24}(-b_y{}^4 b_z d_2^5 k_2 + b_y{}^4 b_z d_{20}^5 k_{20} + b_y{}^4 b_z d_{26}^5 k_{26} - b_y{}^4 b_z d_8^5 k_8 + b_y{}^4 d_{11}^4\bar{k}_{11}n_{3,11} + b_y{}^4 d_{17}^4\bar{k}_{17}n_{3,17} + b_y{}^3 d_2^4\bar{k}_2(b_y n_{3,2} + 4b_z n_{2,2}) + b_y{}^3 d_{20}^4\bar{k}_{20}(b_y n_{3,20} - 4b_z n_{2,20}) + b_y{}^3 d_{26}^4\bar{k}_{26}(b_y n_{3,26} + 4b_z n_{2,26}) + b_y{}^3 d_8^4\bar{k}_8(b_y n_{3,8} - 4b_z n_{2,8}) - (b_y{}^4 - 6b_y{}^2 + 1)b_z d_1^5 k_1 + d_1^4\bar{k}_1(4b_z(-3b_y{}^2 n_{1,1} + (b_y{}^2 - 3)b_y n_{2,1} + n_{1,1}) + (b_y{}^4 - 6b_y{}^2 + 1)n_{3,1}) + (b_y{}^4 - 6b_y{}^2 + 1)b_z d_{19}^5 k_{19} +$

$d_{19}^4\bar{k}_{19}((b_y{}^4-6b_y{}^2+1)n_{3,19}-4b_z(-3b_y{}^2n_{1,19}+(b_y{}^2-3)b_yn_{2,19}+n_{1,19}))+(b_y{}^4-6b_y{}^2+1)b_zd_{21}^5k_{21}+d_{21}^4\bar{k}_{21}((b_y{}^4-6b_y{}^2+1)n_{3,21}-4b_z((3b_y{}^2-1)n_{1,21}+b_y(b_y{}^2-3)n_{2,21}))+(b_y{}^4-6b_y{}^2+1)b_zd_{25}^5k_{25}+d_{25}^4\bar{k}_{25}(4b_z((3b_y{}^2-1)n_{1,25}+b_y(b_y{}^2-3)n_{2,25})+(b_y{}^4-6b_y{}^2+1)n_{3,25})+(b_y{}^4-6b_y{}^2+1)b_zd_{27}^5k_{27}+d_{27}^4\bar{k}_{27}(4b_z(-3b_y{}^2n_{1,27}+(b_y{}^2-3)b_yn_{2,27}+n_{1,27})+(b_y{}^4-6b_y{}^2+1)n_{3,27})-(b_y{}^4-6b_y{}^2+1)b_zd_3^5k_3+d_3^4\bar{k}_3(4b_z((3b_y{}^2-1)n_{1,3}+b_y(b_y{}^2-3)n_{2,3})+(b_y{}^4-6b_y{}^2+1)n_{3,3})-(b_y{}^4-6b_y{}^2+1)b_zd_7^5k_7+d_7^4\bar{k}_7((b_y{}^4-6b_y{}^2+1)n_{3,7}-4b_z((3b_y{}^2-1)n_{1,7}+b_y(b_y{}^2-3)n_{2,7}))-(b_y{}^4-6b_y{}^2+1)b_zd_9^5k_9+d_9^4\bar{k}_9((b_y{}^4-6b_y{}^2+1)n_{3,9}-4b_z(-3b_y{}^2n_{1,9}+(b_y{}^2-3)b_yn_{2,9}+n_{1,9}))+(b_y{}^4-6b_y{}^2+1)d_{10}^4\bar{k}_{10}n_{3,10}+(b_y{}^4-6b_y{}^2+1)d_{12}^4\bar{k}_{12}n_{3,12}+(b_y{}^4-6b_y{}^2+1)d_{16}^4\bar{k}_{16}n_{3,16}+(b_y{}^4-6b_y{}^2+1)d_{18}^4\bar{k}_{18}n_{3,18}+b_zd_{22}^5k_{22}+d_{22}^4\bar{k}_{22}(n_{3,22}-4b_zn_{1,22})+b_zd_{24}^5k_{24}+d_{24}^4\bar{k}_{24}(4b_zn_{1,24}+n_{3,24})-b_zd_4^5k_4+d_4^4\bar{k}_4(4b_zn_{1,4}+n_{3,4})-b_zd_6^5k_6+d_6^4\bar{k}_6(n_{3,6}-4b_zn_{1,6})+d_{13}^4\bar{k}_{13}n_{3,13}+d_{15}^4\bar{k}_{15}n_{3,15})$

$b_{31}=\frac{1}{120}(b_y{}^5(d_1^5(-k_1)-d_{10}^5k_{10}-d_{11}^5k_{11}-d_{12}^5k_{12}+d_{16}^5k_{16}+d_{17}^5k_{17}+d_{18}^5k_{18}-d_{19}^5k_{19}-d_2^5k_2-d_{20}^5k_{20}-d_{21}^5k_{21}+d_{25}^5k_{25}+d_{26}^5k_{26}+d_{27}^5k_{27}-d_3^5k_3+d_7^5k_7+d_8^5k_8+d_9^5k_9)+5b_y{}^4(d_1^4\bar{k}_1n_{2,1}+d_{10}^4\bar{k}_{10}n_{2,10}+d_{11}^4\bar{k}_{11}n_{2,11}+d_{12}^4\bar{k}_{12}n_{2,12}+d_{16}^4\bar{k}_{16}n_{2,16}+d_{17}^4\bar{k}_{17}n_{2,17}+d_{18}^4\bar{k}_{18}n_{2,18}+d_{19}^4\bar{k}_{19}n_{2,19}+d_2^4\bar{k}_2n_{2,2}+d_{20}^4\bar{k}_{20}n_{2,20}+d_{21}^4\bar{k}_{21}n_{2,21}+d_{25}^4\bar{k}_{25}n_{2,25}+d_{26}^4\bar{k}_{26}n_{2,26}+d_{27}^4\bar{k}_{27}n_{2,27}+d_3^4\bar{k}_3n_{2,3}+d_7^4\bar{k}_7n_{2,7}+d_8^4\bar{k}_8n_{2,8}+d_9^4\bar{k}_9n_{2,9})+10b_y{}^3(d_1^5k_1-2d_1^4\bar{k}_1n_{1,1}+d_{10}^5k_{10}-2d_{10}^4\bar{k}_{10}n_{1,10}+d_{12}^5k_{12}+2d_{12}^4\bar{k}_{12}n_{1,12}-d_{16}^5k_{16}+2d_{16}^4\bar{k}_{16}n_{1,16}-d_{18}^5k_{18}-2d_{18}^4\bar{k}_{18}n_{1,18}+d_{19}^5k_{19}-2d_{19}^4\bar{k}_{19}n_{1,19}+d_{21}^5k_{21}+2d_{21}^4\bar{k}_{21}n_{1,21}-d_{25}^5k_{25}+2d_{25}^4\bar{k}_{25}n_{1,25}-d_{27}^5k_{27}-2d_{27}^4\bar{k}_{27}n_{1,27}+d_3^5k_3+2d_3^4\bar{k}_3n_{1,3}-d_7^5k_7+2d_7^4\bar{k}_7n_{1,7}-d_9^5k_9-2d_9^4\bar{k}_9n_{1,9})-30b_y{}^2(d_1^4\bar{k}_1n_{2,1}+d_{10}^4\bar{k}_{10}n_{2,10}+d_{12}^4\bar{k}_{12}n_{2,12}+d_{16}^4\bar{k}_{16}n_{2,16}+d_{18}^4\bar{k}_{18}n_{2,18}+d_{19}^4\bar{k}_{19}n_{2,19}+d_{21}^4\bar{k}_{21}n_{2,21}+d_{25}^4\bar{k}_{25}n_{2,25}+d_{27}^4\bar{k}_{27}n_{2,27}+d_3^4\bar{k}_3n_{2,3}+d_7^4\bar{k}_7n_{2,7}+d_9^4\bar{k}_9n_{2,9})-5b_y(d_1^5k_1-4d_1^4\bar{k}_1n_{1,1}+d_{10}^5k_{10}-4d_{10}^4\bar{k}_{10}n_{1,10}+d_{12}^5k_{12}+4d_{12}^4\bar{k}_{12}n_{1,12}-d_{16}^5k_{16}+4d_{16}^4\bar{k}_{16}n_{1,16}-d_{18}^5k_{18}-4d_{18}^4\bar{k}_{18}n_{1,18}+d_{19}^5k_{19}-4d_{19}^4\bar{k}_{19}n_{1,19}+d_{21}^5k_{21}+4d_{21}^4\bar{k}_{21}n_{1,21}-d_{25}^5k_{25}+4d_{25}^4\bar{k}_{25}n_{1,25}-d_{27}^5k_{27}-4d_{27}^4\bar{k}_{27}n_{1,27}+d_3^5k_3+4d_3^4\bar{k}_3n_{1,3}-d_7^5k_7+4d_7^4\bar{k}_7n_{1,7}-d_9^5k_9-4d_9^4\bar{k}_9n_{1,9})+5(d_1^4\bar{k}_1n_{2,1}+d_{10}^4\bar{k}_{10}n_{2,10}+d_{12}^4\bar{k}_{12}n_{2,12}+d_{13}^4\bar{k}_{13}n_{2,13}+d_{15}^4\bar{k}_{15}n_{2,15}+d_{16}^4\bar{k}_{16}n_{2,16}+d_{18}^4\bar{k}_{18}n_{2,18}+d_{19}^4\bar{k}_{19}n_{2,19}+d_{21}^4\bar{k}_{21}n_{2,21}+d_{22}^4\bar{k}_{22}n_{2,22}+d_{24}^4\bar{k}_{24}n_{2,24}+d_{25}^4\bar{k}_{25}n_{2,25}+d_{27}^4\bar{k}_{27}n_{2,27}+d_3^4\bar{k}_3n_{2,3}+d_4^4\bar{k}_4n_{2,4}+d_6^4\bar{k}_6n_{2,6}+d_7^4\bar{k}_7n_{2,7}+d_9^4\bar{k}_9n_{2,9}))$

$b_{32}=\frac{1}{120}(5b_z{}^4d_2^4\bar{k}_2n_{1,2}+5b_z{}^4d_{20}^4\bar{k}_{20}n_{1,20}+5b_z{}^4d_{23}^4\bar{k}_{23}n_{1,23}+5b_z{}^4d_{26}^4\bar{k}_{26}n_{1,26}+5b_z{}^4d_5^4\bar{k}_5n_{1,5}+5b_z{}^4d_8^4\bar{k}_8n_{1,8}-(5b_z{}^4-10b_z{}^2+1)d_1^5k_1+5d_1^4\bar{k}_1(4b_z(b_z{}^2-1)n_{3,1}+(b_z{}^4-6b_z{}^2+1)n_{1,1})+(-5b_z{}^4+10b_z{}^2-1)d_{19}^5k_{19}+5d_{19}^4\bar{k}_{19}((b_z{}^4-6b_z{}^2+1)n_{1,19}-4b_z(b_z{}^2-1)n_{3,19})+(5b_z{}^4-10b_z{}^2+1)d_{21}^5k_{21}+5d_{21}^4\bar{k}_{21}(4b_z(b_z{}^2-1)n_{3,21}+(b_z{}^4-6b_z{}^2+1)n_{1,21})+(-5b_z{}^4+10b_z{}^2-1)d_{22}^5k_{22}+5d_{22}^4\bar{k}_{22}((b_z{}^4-6b_z{}^2+1)n_{1,22}-4b_z(b_z{}^2-1)n_{3,22})+(5b_z{}^4-10b_z{}^2+1)d_{24}^5k_{24}+5d_{24}^4\bar{k}_{24}(4b_z(b_z{}^2-1)n_{3,24}+(b_z{}^4-6b_z{}^2+1)n_{1,24})+(-5b_z{}^4+10b_z{}^2-1)d_{25}^5k_{25}+5d_{25}^4\bar{k}_{25}((b_z{}^4-6b_z{}^2+1)n_{1,25}-4b_z(b_z{}^2-1)n_{3,25})+(5b_z{}^4-10b_z{}^2+1)d_{27}^5k_{27}+5d_{27}^4\bar{k}_{27}(4b_z(b_z{}^2-1)n_{3,27}+(b_z{}^4-6b_z{}^2+1)n_{1,27})+(5b_z{}^4-10b_z{}^2+1)d_3^5k_3+5d_3^4\bar{k}_3((b_z{}^4-6b_z{}^2+1)n_{1,3}-4b_z(b_z{}^2-1)n_{3,3})-(5b_z{}^4-10b_z{}^2+1)d_4^5k_4+5d_4^4\bar{k}_4(4b_z(b_z{}^2-1)n_{3,4}+(b_z{}^4-6b_z{}^2+1)n_{1,4})+(5b_z{}^4-10b_z{}^2+1)d_6^5k_6+5d_6^4\bar{k}_6((b_z{}^4-6b_z{}^2+1)n_{1,6}-4b_z(b_z{}^2-1)n_{3,6})-(5b_z{}^4-10b_z{}^2+1)d_7^5k_7+5d_7^4\bar{k}_7(4b_z(b_z{}^2-1)n_{3,7}+(b_z{}^4-6b_z{}^2+1)n_{1,7})+(5b_z{}^4-10b_z{}^2+1)d_9^5k_9+5d_9^4\bar{k}_9((b_z{}^4-6b_z{}^2+1)n_{1,9}-4b_z(b_z{}^2-1)n_{3,9})-d_{10}^5k_{10}+5d_{10}^4\bar{k}_{10}n_{1,10}+d_{12}^5k_{12}+5d_{12}^4\bar{k}_{12}n_{1,12}-d_{13}^5k_{13}+5d_{13}^4\bar{k}_{13}n_{1,13}+d_{15}^5k_{15}+5d_{15}^4\bar{k}_{15}n_{1,15}-d_{16}^5k_{16}+5d_{16}^4\bar{k}_{16}n_{1,16}+d_{18}^5k_{18}+5d_{18}^4\bar{k}_{18}n_{1,18})$

$b_{33}=\frac{1}{6}(b_y(b_z{}^3(d_1^5(-k_1)+d_1^4\bar{k}_1n_{1,1}+d_{19}^5k_{19}-d_{19}^4\bar{k}_{19}n_{1,19}+d_2^4\bar{k}_2n_{1,2}-d_{20}^4\bar{k}_{20}n_{1,20}-d_{21}^5k_{21}-d_{21}^4\bar{k}_{21}n_{1,21}-d_{25}^5k_{25}+d_{25}^4\bar{k}_{25}n_{1,25}+d_{26}^4\bar{k}_{26}n_{1,26}+d_{27}^5k_{27}+d_{27}^4\bar{k}_{27}n_{1,27}+d_3^5k_3+d_3^4\bar{k}_3n_{1,3}+d_7^5k_7-d_7^4\bar{k}_7n_{1,7}-d_8^4\bar{k}_8n_{1,8}-d_9^5k_9-d_9^4\bar{k}_9n_{1,9})+3b_z{}^2(d_1^4\bar{k}_1n_{3,1}+d_{19}^4\bar{k}_{19}n_{3,19}-d_{21}^4\bar{k}_{21}n_{3,21}-d_{25}^4\bar{k}_{25}n_{3,25}+d_{27}^4\bar{k}_{27}n_{3,27}-d_3^4\bar{k}_3n_{3,3}-d_7^4\bar{k}_7n_{3,7}+d_9^4\bar{k}_9n_{3,9})+b_z(d_1^5k_1-3d_1^4\bar{k}_1n_{1,1}-d_{19}^5k_{19}+3d_{19}^4\bar{k}_{19}n_{1,19}+d_{21}^5k_{21}+3d_{21}^4\bar{k}_{21}n_{1,21}+d_{25}^5k_{25}-3d_{25}^4\bar{k}_{25}n_{1,25}-d_{27}^5k_{27}-3d_{27}^4\bar{k}_{27}n_{1,27}-d_3^5k_3-3d_3^4\bar{k}_3n_{1,3}-d_7^5k_7+3d_7^4\bar{k}_7n_{1,7}+d_9^5k_9+3d_9^4\bar{k}_9n_{1,9})+d_1^4(-\bar{k}_1)n_{3,1}-d_{10}^4\bar{k}_{10}n_{3,10}+d_{12}^4\bar{k}_{12}n_{3,12}+d_{16}^4\bar{k}_{16}n_{3,16}-d_{18}^4\bar{k}_{18}n_{3,18}-d_{19}^4\bar{k}_{19}n_{3,19}+d_{21}^4\bar{k}_{21}n_{3,21}+d_{25}^4\bar{k}_{25}n_{3,25}-d_{27}^4\bar{k}_{27}n_{3,27}+d_3^4\bar{k}_3n_{3,3}+d_7^4\bar{k}_7n_{3,7}-d_9^4\bar{k}_9n_{3,9})+b_z(b_z{}^2-1)(d_1^4\bar{k}_1n_{2,1}-d_{19}^4\bar{k}_{19}n_{2,19}+d_{21}^4\bar{k}_{21}n_{2,21}-d_{22}^4\bar{k}_{22}n_{2,22}+d_{24}^4\bar{k}_{24}n_{2,24}-d_{25}^4\bar{k}_{25}n_{2,25}+d_{27}^4\bar{k}_{27}n_{2,27}-d_3^4\bar{k}_3n_{2,3}+d_4^4\bar{k}_4n_{2,4}-d_6^4\bar{k}_6n_{2,6}+d_7^4\bar{k}_7n_{2,7}-d_9^4\bar{k}_9n_{2,9}))$

$$b_{34} = \frac{1}{120}(-2(5(3{b_z}^2-1){b_y}^2-5{b_z}^2+1)k_1 d_1^5 + 10\bar{k}_1(3({b_z}^2-1)n_{1,1}{b_y}^2+6b_z n_{3,1}{b_y}^2+2(3{b_z}^2-1)n_{2,1}b_y - 3{b_z}^2 n_{1,1}+n_{1,1}-2b_z n_{3,1})d_1^4 + 2(5{b_y}^2-1)d_{10}^5 k_{10} + (2-10{b_y}^2)d_{12}^5 k_{12} - 2d_{13}^5 k_{13} + 2d_{15}^5 k_{15} + 2(5{b_y}^2-1)d_{16}^5 k_{16} + (2-10{b_y}^2)d_{18}^5 k_{18} - 2(5(3{b_z}^2-1){b_y}^2-5{b_z}^2+1)d_{19}^5 k_{19} + 2(5(3{b_z}^2-1){b_y}^2-5{b_z}^2+1)d_{21}^5 k_{21} + 2(5{b_z}^2-1)d_{22}^5 k_{22} + (2-10{b_z}^2)d_{24}^5 k_{24} - 2(5(3{b_z}^2-1){b_y}^2-5{b_z}^2+1)d_{25}^5 k_{25} + 2(5(3{b_z}^2-1){b_y}^2-5{b_z}^2+1)d_{27}^5 k_{27} + 2(5(3{b_z}^2-1){b_y}^2 - 5{b_z}^2+1)d_3^5 k_3 + 2(5{b_z}^2-1)d_4^5 k_4 + (2-10{b_z}^2)d_6^5 k_6 - 2(5(3{b_z}^2-1){b_y}^2-5{b_z}^2+1)d_7^5 k_7 + 2(5(3{b_z}^2-1){b_y}^2 - 5{b_z}^2+1)d_9^5 k_9 + 10d_{13}^4 \bar{k}_{13} n_{1,13} + 10d_{15}^4 \bar{k}_{15} n_{1,15} + 30{b_y}^2{b_z}^2 d_2^4 \bar{k}_2 n_{1,2} + 30{b_y}^2{b_z}^2 d_{20}^4 \bar{k}_{20} n_{1,20} + 30{b_y}^2{b_z}^2 d_{26}^4 \bar{k}_{26} n_{1,26} + 30{b_y}^2{b_z}^2 d_8^4 \bar{k}_8 n_{1,8} + 5d_{10}^4 \bar{k}_{10}((2-6{b_y}^2)n_{1,10} - 4b_y n_{2,10}) + 5d_{12}^4 \bar{k}_{12}((2-6{b_y}^2)n_{1,12} + 4b_y n_{2,12}) + 5d_{16}^4 \bar{k}_{16}((2-6{b_y}^2)n_{1,16} + 4b_y n_{2,16}) + 5d_{18}^4 \bar{k}_{18}((2-6{b_y}^2)n_{1,18} - 4b_y n_{2,18}) + 10d_{19}^4 \bar{k}_{19}(3({b_z}^2-1)n_{1,19}{b_y}^2 - 6b_z n_{3,19}{b_y}^2 + 2(3{b_z}^2-1)n_{2,19}b_y - 3{b_z}^2 n_{1,19} + n_{1,19} + 2b_z n_{3,19}) + 10d_{21}^4 \bar{k}_{21}(3({b_z}^2-1)n_{1,21}{b_y}^2 + 6b_z n_{3,21}{b_y}^2 - 6{b_z}^2 n_{2,21}b_y + 2n_{2,21}b_y - 3{b_z}^2 n_{1,21} + n_{1,21} - 2b_z n_{3,21}) + 5d_{22}^4 \bar{k}_{22}((2-6{b_z}^2)n_{1,22} + 4b_z n_{3,22}) + 5d_{24}^4 \bar{k}_{24}((2-6{b_z}^2)n_{1,24} - 4b_z n_{3,24}) + 10d_{25}^4 \bar{k}_{25}(3({b_z}^2-1)n_{1,25}{b_y}^2 - 6b_z n_{3,25}{b_y}^2 - 6{b_z}^2 n_{2,25}b_y + 2n_{2,25}b_y - 3{b_z}^2 n_{1,25} + n_{1,25} + 2b_z n_{3,25}) + 10d_{27}^4 \bar{k}_{27}(3({b_z}^2-1)n_{1,27}{b_y}^2 + 6b_z n_{3,27}{b_y}^2 + 2(3{b_z}^2-1)n_{2,27}b_y - 3{b_z}^2 n_{1,27} + n_{1,27} - 2b_z n_{3,27}) + 10d_3^4 \bar{k}_3(3({b_z}^2-1)n_{1,3}{b_y}^2 - 6b_z n_{3,3}{b_y}^2 - 6{b_z}^2 n_{2,3}b_y + 2n_{2,3}b_y - 3{b_z}^2 n_{1,3} + n_{1,3} + 2b_z n_{3,3}) + 5d_4^4 \bar{k}_4((2-6{b_z}^2)n_{1,4} - 4b_z n_{3,4}) + 5d_6^4 \bar{k}_6((2-6{b_z}^2)n_{1,6} + 4b_z n_{3,6}) + 10d_7^4 \bar{k}_7(3({b_z}^2-1)n_{1,7}{b_y}^2 + 6b_z n_{3,7}{b_y}^2 - 6{b_z}^2 n_{2,7}b_y + 2n_{2,7}b_y - 3{b_z}^2 n_{1,7} + n_{1,7} - 2b_z n_{3,7}) + 10d_9^4 \bar{k}_9(3({b_z}^2-1)n_{1,9}{b_y}^2 - 6b_z n_{3,9}{b_y}^2 + 2(3{b_z}^2-1)n_{2,9}b_y - 3{b_z}^2 n_{1,9} + n_{1,9} + 2b_z n_{3,9}))$$

$$b_{35} = \frac{1}{6}({b_y}^3(b_z(d_1^5(-k_1) + d_1^4 \bar{k}_1 n_{1,1} + d_{19}^5 k_{19} - d_{19}^4 \bar{k}_{19} n_{1,19} + d_2^4 \bar{k}_2 n_{1,2} - d_{20}^4 \bar{k}_{20} n_{1,20} - d_{21}^5 k_{21} - d_{21}^4 \bar{k}_{21} n_{1,21} - d_{25}^5 k_{25} + d_{25}^4 \bar{k}_{25} n_{1,25} + d_{26}^4 \bar{k}_{26} n_{1,26} + d_{27}^5 k_{27} + d_{27}^4 \bar{k}_{27} n_{1,27} + d_3^5 k_3 + d_3^4 \bar{k}_3 n_{1,3} + d_7^5 k_7 - d_7^4 \bar{k}_7 n_{1,7} - d_8^4 \bar{k}_8 n_{1,8} - d_9^5 k_9 - d_9^4 \bar{k}_9 n_{1,9}) + d_1^4 \bar{k}_1 n_{3,1} + d_{10}^4 \bar{k}_{10} n_{3,10} - d_{12}^4 \bar{k}_{12} n_{3,12} - d_{16}^4 \bar{k}_{16} n_{3,16} + d_{18}^4 \bar{k}_{18} n_{3,18} + d_{19}^4 \bar{k}_{19} n_{3,19} - d_{21}^4 \bar{k}_{21} n_{3,21} - d_{25}^4 \bar{k}_{25} n_{3,25} + d_{27}^4 \bar{k}_{27} n_{3,27} - d_3^4 \bar{k}_3 n_{3,3} - d_7^4 \bar{k}_7 n_{3,7} + d_9^4 \bar{k}_9 n_{3,9}) + 3{b_y}^2 b_z(d_1^4 \bar{k}_1 n_{2,1} - d_{19}^4 \bar{k}_{19} n_{2,19} + d_{21}^4 \bar{k}_{21} n_{2,21} - d_{25}^4 \bar{k}_{25} n_{2,25} + d_{27}^4 \bar{k}_{27} n_{2,27} - d_3^4 \bar{k}_3 n_{2,3} + d_7^4 \bar{k}_7 n_{2,7} - d_9^4 \bar{k}_9 n_{2,9}) + b_y(b_z(d_1^5 k_1 - 3d_1^4 \bar{k}_1 n_{1,1} - d_{19}^5 k_{19} + 3d_{19}^4 \bar{k}_{19} n_{1,19} + d_{21}^5 k_{21} + 3d_{21}^4 \bar{k}_{21} n_{1,21} + d_{25}^5 k_{25} - 3d_{25}^4 \bar{k}_{25} n_{1,25} - d_{27}^5 k_{27} - 3d_{27}^4 \bar{k}_{27} n_{1,27} - d_3^5 k_3 - 3d_3^4 \bar{k}_3 n_{1,3} - d_7^5 k_7 + 3d_7^4 \bar{k}_7 n_{1,7} + d_9^5 k_9 + 3d_9^4 \bar{k}_9 n_{1,9}) + d_1^4(-\bar{k}_1) n_{3,1} - d_{10}^4 \bar{k}_{10} n_{3,10} + d_{12}^4 \bar{k}_{12} n_{3,12} + d_{16}^4 \bar{k}_{16} n_{3,16} - d_{18}^4 \bar{k}_{18} n_{3,18} - d_{19}^4 \bar{k}_{19} n_{3,19} + d_{21}^4 \bar{k}_{21} n_{3,21} + d_{25}^4 \bar{k}_{25} n_{3,25} - d_{27}^4 \bar{k}_{27} n_{3,27} + d_3^4 \bar{k}_3 n_{3,3} + d_7^4 \bar{k}_7 n_{3,7} - d_9^4 \bar{k}_9 n_{3,9}) + b_z(d_1^4(-\bar{k}_1) n_{2,1} + d_{19}^4 \bar{k}_{19} n_{2,19} - d_{21}^4 \bar{k}_{21} n_{2,21} + d_{22}^4 \bar{k}_{22} n_{2,22} - d_{24}^4 \bar{k}_{24} n_{2,24} + d_{25}^4 \bar{k}_{25} n_{2,25} - d_{27}^4 \bar{k}_{27} n_{2,27} + d_3^4 \bar{k}_3 n_{2,3} - d_4^4 \bar{k}_4 n_{2,4} + d_6^4 \bar{k}_6 n_{2,6} - d_7^4 \bar{k}_7 n_{2,7} + d_9^4 \bar{k}_9 n_{2,9}))$$

$$b_{36} = \frac{1}{120}(5{b_y}^4 d_{11}^4 \bar{k}_{11} n_{1,11} + 5{b_y}^4 d_{17}^4 \bar{k}_{17} n_{1,17} + 5{b_y}^4 d_2^4 \bar{k}_2 n_{1,2} + 5{b_y}^4 d_{20}^4 \bar{k}_{20} n_{1,20} + 5{b_y}^4 d_{26}^4 \bar{k}_{26} n_{1,26} + 5{b_y}^4 d_8^4 \bar{k}_8 n_{1,8} - (5{b_y}^4 - 10{b_y}^2 + 1)d_1^5 k_1 + 5d_1^4 \bar{k}_1(4b_y({b_y}^2-1)n_{2,1} + ({b_y}^4 - 6{b_y}^2+1)n_{1,1}) - (5{b_y}^4 - 10{b_y}^2+1)d_{10}^5 k_{10} + 5d_{10}^4 \bar{k}_{10}(4b_y({b_y}^2 - 1)n_{2,10} + ({b_y}^4 - 6{b_y}^2+1)n_{1,10}) + (5{b_y}^4 - 10{b_y}^2+1)d_{12}^5 k_{12} + 5d_{12}^4 \bar{k}_{12}(({b_y}^4 - 6{b_y}^2+1)n_{1,12} - 4b_y({b_y}^2-1)n_{2,12}) + (-5{b_y}^4 + 10{b_y}^2 - 1)d_{16}^5 k_{16} + 5d_{16}^4 \bar{k}_{16}(({b_y}^4 - 6{b_y}^2+1)n_{1,16} - 4b_y({b_y}^2-1)n_{2,16}) + (5{b_y}^4 - 10{b_y}^2+1)d_{18}^5 k_{18} + 5d_{18}^4 \bar{k}_{18}(4b_y({b_y}^2-1)n_{2,18} + ({b_y}^4 - 6{b_y}^2+1)n_{1,18}) + (-5{b_y}^4 + 10{b_y}^2 - 1)d_{19}^5 k_{19} + 5d_{19}^4 \bar{k}_{19}(4b_y({b_y}^2-1)n_{2,19} + ({b_y}^4 - 6{b_y}^2+1)n_{1,19}) + (5{b_y}^4 - 10{b_y}^2+1)d_{21}^5 k_{21} + 5d_{21}^4 \bar{k}_{21}(({b_y}^4 - 6{b_y}^2+1)n_{1,21} - 4b_y({b_y}^2-1)n_{2,21}) + (-5{b_y}^4 + 10{b_y}^2 - 1)d_{25}^5 k_{25} + 5d_{25}^4 \bar{k}_{25}(({b_y}^4 - 6{b_y}^2+1)n_{1,25} - 4b_y({b_y}^2-1)n_{2,25}) + (5{b_y}^4 - 10{b_y}^2+1)d_{27}^5 k_{27} + 5d_{27}^4 \bar{k}_{27}(4b_y({b_y}^2-1)n_{2,27} + ({b_y}^4 - 6{b_y}^2+1)n_{1,27}) + (5{b_y}^4 - 10{b_y}^2+1)d_3^5 k_3 + 5d_3^4 \bar{k}_3(({b_y}^4 - 6{b_y}^2+1)n_{1,3} - 4b_y({b_y}^2-1)n_{2,3}) - (5{b_y}^4 - 10{b_y}^2+1)d_7^5 k_7 + 5d_7^4 \bar{k}_7(({b_y}^4 - 6{b_y}^2+1)n_{1,7} - 4b_y({b_y}^2-1)n_{2,7}) + (5{b_y}^4 - 10{b_y}^2 + 1)d_9^5 k_9 + 5d_9^4 \bar{k}_9(4b_y({b_y}^2-1)n_{2,9} + ({b_y}^4 - 6{b_y}^2+1)n_{1,9}) - d_{13}^5 k_{13} + 5d_{13}^4 \bar{k}_{13} n_{1,13} + d_{15}^5 k_{15} + 5d_{15}^4 \bar{k}_{15} n_{1,15} - d_{22}^5 k_{22} + 5d_{22}^4 \bar{k}_{22} n_{1,22} + d_{24}^5 k_{24} + 5d_{24}^4 \bar{k}_{24} n_{1,24} - d_4^5 k_4 + 5d_4^4 \bar{k}_4 n_{1,4} + d_6^5 k_6 + 5d_6^4 \bar{k}_6 n_{1,6})$$

$$b_{37} = \frac{1}{720}(({b_z}^6 - 15{b_z}^4 + 15{b_z}^2 - 1)k_1 d_1^6 + 6\bar{k}_1(({5b_z}^4 - 10{b_z}^2+1)n_{1,1} - b_z({b_z}^4 - 10{b_z}^2+5)n_{3,1})d_1^5 - d_{10}^6 k_{10} - d_{12}^6 k_{12} - d_{13}^6 k_{13} - d_{15}^6 k_{15} - d_{16}^6 k_{16} - d_{18}^6 k_{18} + ({b_z}^6 - 15{b_z}^4 + 15{b_z}^2 - 1)d_{19}^6 k_{19} + {b_z}^6 d_2^6 k_2 + {b_z}^6 d_{20}^6 k_{20} + ({b_z}^6 - 15{b_z}^4 + 15{b_z}^2 - 1)d_{21}^6 k_{21} + ({b_z}^6 - 15{b_z}^4 + 15{b_z}^2 - 1)d_{22}^6 k_{22} + {b_z}^6 d_{23}^6 k_{23} + ({b_z}^6 - 15{b_z}^4 + 15{b_z}^2 - 1)d_{24}^6 k_{24} + ({b_z}^6 - 15{b_z}^4 + 15{b_z}^2 - 1)d_{25}^6 k_{25} + {b_z}^6 d_{26}^6 k_{26} + ({b_z}^6 - 15{b_z}^4 + 15{b_z}^2 - 1)d_{27}^6 k_{27} + ({b_z}^6 - 15{b_z}^4 + 15{b_z}^2 - 1)d_3^6 k_3 + ({b_z}^6 - 15{b_z}^4 + 15{b_z}^2 - 1)d_4^6 k_4 + {b_z}^6 d_5^6 k_5 + ({b_z}^6 - 15{b_z}^4 + 15{b_z}^2 - 1)d_6^6 k_6 + ({b_z}^6 - 15{b_z}^4 + 15{b_z}^2 - 1)d_7^6 k_7 + {b_z}^6 d_8^6 k_8 + ({b_z}^6 - 15{b_z}^4 + 15{b_z}^2 - 1)d_9^6 k_9 + 6d_{10}^5 \bar{k}_{10} n_{1,10} - 6d_{12}^5 \bar{k}_{12} n_{1,12} + 6d_{13}^5 \bar{k}_{13} n_{1,13} - 6d_{15}^5 \bar{k}_{15} n_{1,15} + 6d_{16}^5 \bar{k}_{16} n_{1,16} -$$

$$6d_{18}^5\bar{k}_{18}n_{1,18} + 6d_{19}^5\bar{k}_{19}((5{b_z}^4 - 10{b_z}^2 + 1)n_{1,19} + b_z({b_z}^4 - 10{b_z}^2 + 5)n_{3,19}) - 6{b_z}^5 d_2^5\bar{k}_2 n_{3,2} + 6{b_z}^5 d_{20}^5\bar{k}_{20}n_{3,20} - 6d_{21}^5\bar{k}_{21}((5{b_z}^4 - 10{b_z}^2 + 1)n_{1,21} - b_z({b_z}^4 - 10{b_z}^2 + 5)n_{3,21}) + 6d_{22}^5\bar{k}_{22}((5{b_z}^4 - 10{b_z}^2 + 1)n_{1,22} + b_z({b_z}^4 - 10{b_z}^2 + 5)n_{3,22}) + 6{b_z}^5 d_{23}^5\bar{k}_{23}n_{3,23} - 6d_{24}^5\bar{k}_{24}((5{b_z}^4 - 10{b_z}^2 + 1)n_{1,24} - b_z({b_z}^4 - 10{b_z}^2 + 5)n_{3,24}) + 6d_{25}^5\bar{k}_{25}((5{b_z}^4 - 10{b_z}^2 + 1)n_{1,25} + b_z({b_z}^4 - 10{b_z}^2 + 5)n_{3,25}) + 6{b_z}^5 d_{26}^5\bar{k}_{26}n_{3,26} - 6d_{27}^5\bar{k}_{27}((5{b_z}^4 - 10{b_z}^2 + 1)n_{1,27} - b_z({b_z}^4 - 10{b_z}^2 + 5)n_{3,27}) - 6d_3^5\bar{k}_3((5{b_z}^4 - 10{b_z}^2 + 1)n_{1,3} + b_z({b_z}^4 - 10{b_z}^2 + 5)n_{3,3}) + 6d_4^5\bar{k}_4((5{b_z}^4 - 10{b_z}^2 + 1)n_{1,4} - b_z({b_z}^4 - 10{b_z}^2 + 5)n_{3,4}) - 6{b_z}^5 d_5^5\bar{k}_5 n_{3,5} - 6d_6^5\bar{k}_6((5{b_z}^4 - 10{b_z}^2 + 1)n_{1,6} + b_z({b_z}^4 - 10{b_z}^2 + 5)n_{3,6}) + 6d_7^5\bar{k}_7((5{b_z}^4 - 10{b_z}^2 + 1)n_{1,7} - b_z({b_z}^4 - 10{b_z}^2 + 5)n_{3,7}) - 6{b_z}^5 d_8^5\bar{k}_8 n_{3,8} - 6d_9^5\bar{k}_9((5{b_z}^4 - 10{b_z}^2 + 1)n_{1,9} + b_z({b_z}^4 - 10{b_z}^2 + 5)n_{3,9}))$$

$$b_{38} = \tfrac{1}{120}(b_z(-({b_z}^4 - 10{b_z}^2 + 5)\bar{k}_1 n_{2,1} d_1^5 + ({b_z}^4 - 10{b_z}^2 + 5)d_{19}^5\bar{k}_{19}n_{2,19} - {b_z}^4 d_2^5\bar{k}_2 n_{2,2} + {b_z}^4 d_{20}^5\bar{k}_{20}n_{2,20} + {b_z}^4 d_{21}^5\bar{k}_{21}n_{2,21} - 10{b_z}^2 d_{21}^5\bar{k}_{21}n_{2,21} + 5d_{21}^5\bar{k}_{21}n_{2,21} + {b_z}^4 d_{22}^5\bar{k}_{22}n_{2,22} - 10{b_z}^2 d_{22}^5\bar{k}_{22}n_{2,22} + 5d_{22}^5\bar{k}_{22}n_{2,22} + {b_z}^4 d_{23}^5\bar{k}_{23}n_{2,23} + {b_z}^4 d_{24}^5\bar{k}_{24}n_{2,24} - 10{b_z}^2 d_{24}^5\bar{k}_{24}n_{2,24} + 5d_{24}^5\bar{k}_{24}n_{2,24} + {b_z}^4 d_{25}^5\bar{k}_{25}n_{2,25} - 10{b_z}^2 d_{25}^5\bar{k}_{25}n_{2,25} + 5d_{25}^5\bar{k}_{25}n_{2,25} + {b_z}^4 d_{26}^5\bar{k}_{26}n_{2,26} + {b_z}^4 d_{27}^5\bar{k}_{27}n_{2,27} - 10{b_z}^2 d_{27}^5\bar{k}_{27}n_{2,27} + 5d_{27}^5\bar{k}_{27}n_{2,27} - {b_z}^4 d_3^5\bar{k}_3 n_{2,3} + 10{b_z}^2 d_3^5\bar{k}_3 n_{2,3} - 5d_3^5\bar{k}_3 n_{2,3} - {b_z}^4 d_4^5\bar{k}_4 n_{2,4} + 10{b_z}^2 d_4^5\bar{k}_4 n_{2,4} - 5d_4^5\bar{k}_4 n_{2,4} - {b_z}^4 d_5^5\bar{k}_5 n_{2,5} - {b_z}^4 d_6^5\bar{k}_6 n_{2,6} + 10{b_z}^2 d_6^5\bar{k}_6 n_{2,6} - 5d_6^5\bar{k}_6 n_{2,6} - {b_z}^4 d_7^5\bar{k}_7 n_{2,7} + 10{b_z}^2 d_7^5\bar{k}_7 n_{2,7} - 5d_7^5\bar{k}_7 n_{2,7} - {b_z}^4 d_8^5\bar{k}_8 n_{2,8} - {b_z}^4 d_9^5\bar{k}_9 n_{2,9} + 10{b_z}^2 d_9^5\bar{k}_9 n_{2,9} - 5d_9^5\bar{k}_9 n_{2,9}) + b_y((k_1 d_1^6 - d_{19}^6 k_{19} + d_2^6 k_2 - d_{20}^6 k_{20} - d_{21}^6 k_{21} + d_{25}^6 k_{25} + d_{26}^6 k_{26} + d_{27}^6 k_{27} + d_3^6 k_3 - d_7^6 k_7 - d_8^6 k_8 - d_9^6 k_9){b_z}^5 - 5(\bar{k}_1 n_{3,1} d_1^5 + d_{19}^5\bar{k}_{19}n_{3,19} + d_2^5\bar{k}_2 n_{3,2} + d_{20}^5\bar{k}_{20}n_{3,20} + d_{21}^5\bar{k}_{21}n_{3,21} - d_{25}^5\bar{k}_{25}n_{3,25} - d_{26}^5\bar{k}_{26}n_{3,26} - d_{27}^5\bar{k}_{27}n_{3,27} + d_3^5\bar{k}_3 n_{3,3} - d_7^5\bar{k}_7 n_{3,7} - d_8^5\bar{k}_8 n_{3,8} - d_9^5\bar{k}_9 n_{3,9}){b_z}^4 - 10(k_1 d_1^6 - 2\bar{k}_1 n_{1,1} d_1^5 - d_{19}^6 k_{19} - d_{21}^6 k_{21} + d_{25}^6 k_{25} + d_{27}^6 k_{27} + d_3^6 k_3 - d_7^6 k_7 - d_9^6 k_9 + 2d_{19}^5\bar{k}_{19}n_{1,19} - 2d_{21}^5\bar{k}_{21}n_{1,21} - 2d_{25}^5\bar{k}_{25}n_{1,25} + 2d_{27}^5\bar{k}_{27}n_{1,27} + 2d_3^5\bar{k}_3 n_{1,3} + 2d_7^5\bar{k}_7 n_{1,7} - 2d_9^5\bar{k}_9 n_{1,9}){b_z}^3 + 30(\bar{k}_1 n_{3,1} d_1^5 + d_{19}^5\bar{k}_{19}n_{3,19} + d_{21}^5\bar{k}_{21}n_{3,21} - d_{25}^5\bar{k}_{25}n_{3,25} - d_{27}^5\bar{k}_{27}n_{3,27} + d_3^5\bar{k}_3 n_{3,3} - d_7^5\bar{k}_7 n_{3,7} - d_9^5\bar{k}_9 n_{3,9}){b_z}^2 + 5(k_1 d_1^6 - 4\bar{k}_1 n_{1,1} d_1^5 - d_{19}^6 k_{19} - d_{21}^6 k_{21} + d_{25}^6 k_{25} + d_{27}^6 k_{27} + d_3^6 k_3 - d_7^6 k_7 - d_9^6 k_9 + 4d_{19}^5\bar{k}_{19}n_{1,19} - 4d_{21}^5\bar{k}_{21}n_{1,21} - 4d_{25}^5\bar{k}_{25}n_{1,25} + 4d_{27}^5\bar{k}_{27}n_{1,27} + 4d_3^5\bar{k}_3 n_{1,3} + 4d_7^5\bar{k}_7 n_{1,7} - 4d_9^5\bar{k}_9 n_{1,9})b_z - 5(\bar{k}_1 n_{3,1} d_1^5 + d_{10}^5\bar{k}_{10}n_{3,10} + d_{12}^5\bar{k}_{12}n_{3,12} - d_{16}^5\bar{k}_{16}n_{3,16} - d_{18}^5\bar{k}_{18}n_{3,18} + d_{19}^5\bar{k}_{19}n_{3,19} + d_{21}^5\bar{k}_{21}n_{3,21} - d_{25}^5\bar{k}_{25}n_{3,25} - d_{27}^5\bar{k}_{27}n_{3,27} + d_3^5\bar{k}_3 n_{3,3} - d_7^5\bar{k}_7 n_{3,7} - d_9^5\bar{k}_9 n_{3,9})))$$

$$b_{39} = \tfrac{1}{240}((-5{b_z}^4 + 10{b_z}^2 + 5{b_y}^2({b_z}^4 - 6{b_z}^2 + 1) - 1)k_1 d_1^6 + 2\bar{k}_1((5{b_z}^4 - 20{b_z}^2 + 10{b_y}^2(3{b_z}^2 - 1) + 3)n_{1,1} - 5(2b_z({b_z}^2 - 3)n_{3,1}{b_y}^2 + ({b_z}^4 - 6{b_z}^2 + 1)n_{2,1}b_y - 2b_z({b_z}^2 - 1)n_{3,1}))d_1^5 + (5{b_y}^2 - 1)d_{10}^6 k_{10} + (5{b_y}^2 - 1)d_{12}^6 k_{12} - d_{13}^6 k_{13} - d_{15}^6 k_{15} + (5{b_y}^2 - 1)d_{16}^6 k_{16} + (5{b_y}^2 - 1)d_{18}^6 k_{18} + (-5{b_z}^4 + 10{b_z}^2 + 5{b_y}^2({b_z}^4 - 6{b_z}^2 + 1) - 1)d_{19}^6 k_{19} + 5{b_y}^2{b_z}^4 d_2^6 k_2 + 5{b_y}^2{b_z}^4 d_{20}^6 k_{20} + (-5{b_z}^4 + 10{b_z}^2 + 5{b_y}^2({b_z}^4 - 6{b_z}^2 + 1) - 1)d_{21}^6 k_{21} - ({b_z}^4 - 10{b_z}^2 + 1)d_{22}^6 k_{22} - ({b_z}^4 - 10{b_z}^2 + 1)d_{24}^6 k_{24} + (-5{b_z}^4 + 10{b_z}^2 + 5{b_y}^2({b_z}^4 - 6{b_z}^2 + 1) - 1)d_{25}^6 k_{25} + 5{b_y}^2{b_z}^4 d_{26}^6 k_{26} + (-5{b_z}^4 + 10{b_z}^2 + 5{b_y}^2({b_z}^4 - 6{b_z}^2 + 1) - 1)d_{27}^6 k_{27} + (-5{b_z}^4 + 10{b_z}^2 + 5{b_y}^2({b_z}^4 - 6{b_z}^2 + 1) - 1)d_3^6 k_3 - ({b_z}^4 - 10{b_z}^2 + 1)d_4^6 k_4 - ({b_z}^4 - 10{b_z}^2 + 1)d_6^6 k_6 + (-5{b_z}^4 + 10{b_z}^2 + 5{b_y}^2({b_z}^4 - 6{b_z}^2 + 1) - 1)d_7^6 k_7 + 5{b_y}^2{b_z}^4 d_8^6 k_8 + (-5{b_z}^4 + 10{b_z}^2 + 5{b_y}^2({b_z}^4 - 6{b_z}^2 + 1) - 1)d_9^6 k_9 + 6d_{13}^5\bar{k}_{13}n_{1,13} - 6d_{15}^5\bar{k}_{15}n_{1,15} - 2d_{10}^5\bar{k}_{10}((10{b_y}^2 - 3)n_{1,10} + 5b_y n_{2,10}) + 2d_{12}^5\bar{k}_{12}((10{b_y}^2 - 3)n_{1,12} - 5b_y n_{2,12}) + 2d_{16}^5\bar{k}_{16}((3 - 10{b_y}^2)n_{1,16} + 5b_y n_{2,16}) + 2d_{18}^5\bar{k}_{18}((10{b_y}^2 - 3)n_{1,18} + 5b_y n_{2,18}) + 2d_{19}^5\bar{k}_{19}((5{b_z}^4 - 20{b_z}^2 + 10{b_y}^2(3{b_z}^2 - 1) + 3)n_{1,19} + 5(2b_z({b_z}^2 - 3)n_{3,19}{b_y}^2 - ({b_z}^4 - 6{b_z}^2 + 1)n_{2,19}b_y - 2b_z({b_z}^2 - 1)n_{3,19})) - 10b_y{b_z}^3 d_2^5\bar{k}_2(b_z n_{2,2} + 2b_y n_{3,2}) + 10b_y{b_z}^3 d_{20}^5\bar{k}_{20}(2b_y n_{3,20} - b_z n_{2,20}) - 2d_{21}^5\bar{k}_{21}((5{b_z}^4 - 20{b_z}^2 + 10{b_y}^2(3{b_z}^2 - 1) + 3)n_{1,21} + 5(-2b_z({b_z}^2 - 3)n_{3,21}{b_y}^2 + ({b_z}^4 - 6{b_z}^2 + 1)n_{2,21}b_y + 2b_z({b_z}^2 - 1)n_{3,21})) + 2d_{22}^5\bar{k}_{22}((5{b_z}^4 - 20{b_z}^2 + 3)n_{1,22} - 10b_z({b_z}^2 - 1)n_{3,22}) - 2d_{24}^5\bar{k}_{24}((5{b_z}^4 - 20{b_z}^2 + 3)n_{1,24} + 10b_z({b_z}^2 - 1)n_{3,24}) + 2d_{25}^5\bar{k}_{25}((5{b_z}^4 - 20{b_z}^2 + 10{b_y}^2(3{b_z}^2 - 1) + 3)n_{1,25} + 5(2b_z({b_z}^2 - 3)n_{3,25}{b_y}^2 + ({b_z}^4 - 6{b_z}^2 + 1)n_{2,25}b_y - 2b_z({b_z}^2 - 1)n_{3,25})) + 10b_y{b_z}^3 d_{26}^5\bar{k}_{26}(b_z n_{2,26} + 2b_y n_{3,26}) + 2d_{27}^5\bar{k}_{27}((-5{b_z}^4 + 20{b_z}^2 + {b_y}^2(10 - 30{b_z}^2) - 3)n_{1,27} + 5(2b_z({b_z}^2 - 3)n_{3,27}{b_y}^2 + ({b_z}^4 - 6{b_z}^2 + 1)n_{2,27}b_y - 2b_z({b_z}^2 - 1)n_{3,27})) - 2d_3^5\bar{k}_3((5{b_z}^4 - 20{b_z}^2 + 10{b_y}^2(3{b_z}^2 - 1) + 3)n_{1,3} + 5(2b_z({b_z}^2 - 3)n_{3,3}{b_y}^2 + ({b_z}^4 - 6{b_z}^2 + 1)n_{2,3}b_y - 2b_z({b_z}^2 - 1)n_{3,3})) + 2d_4^5\bar{k}_4((5{b_z}^4 - 20{b_z}^2 + 3)n_{1,4} + 10b_z({b_z}^2 - 1)n_{3,4}) - 2d_6^5\bar{k}_6((5{b_z}^4 - 20{b_z}^2 + 3)n_{1,6} - 10b_z({b_z}^2 - 1)n_{3,6}) + 2d_7^5\bar{k}_7((5{b_z}^4 - 20{b_z}^2 + 10{b_y}^2(3{b_z}^2 - 1) + 3)n_{1,7} + 5(-2b_z({b_z}^2 - 3)n_{3,7}{b_y}^2 + ({b_z}^4 - 6{b_z}^2 + 1)n_{2,7}b_y + 2b_z({b_z}^2 - 1)n_{3,7})) + 10b_y{b_z}^3 d_8^5\bar{k}_8(b_z n_{2,8} - 2b_y n_{3,8}) + 2d_9^5\bar{k}_9((-5{b_z}^4 + 20{b_z}^2 + {b_y}^2(10 - 30{b_z}^2) - 3)n_{1,9} + 5(-2b_z({b_z}^2 - 3)n_{3,9}{b_y}^2 + ({b_z}^4 - 6{b_z}^2 + 1)n_{2,9}b_y + 2b_z({b_z}^2 - 1)n_{3,9})))$$

$$b_{40} = \frac{1}{36}(((k_1 d_1^6 - d_{19}^6 k_{19} + d_2^6 k_2 - d_{20}^6 k_{20} - d_{21}^6 k_{21} + d_{25}^6 k_{25} + d_{26}^6 k_{26} + d_{27}^6 k_{27} + d_3^6 k_3 - d_7^6 k_7 - d_8^6 k_8 - d_9^6 k_9) {b_z}^3 - 3(\bar{k}_1 n_{3,1} d_1^5 + d_{19}^5 \bar{k}_{19} n_{3,19} + d_2^5 \bar{k}_2 n_{3,2} + d_{20}^5 \bar{k}_{20} n_{3,20} + d_{21}^5 \bar{k}_{21} n_{3,21} - d_{25}^5 \bar{k}_{25} n_{3,25} - d_{26}^5 \bar{k}_{26} n_{3,26} - d_{27}^5 \bar{k}_{27} n_{3,27} + d_3^5 \bar{k}_3 n_{3,3} - d_7^5 \bar{k}_7 n_{3,7} - d_8^5 \bar{k}_8 n_{3,8} - d_9^5 \bar{k}_9 n_{3,9}) {b_z}^2 - 3(k_1 d_1^6 - 2\bar{k}_1 n_{1,1} d_1^5 - d_{19}^6 k_{19} - d_{21}^6 k_{21} + d_{25}^6 k_{25} + d_{27}^6 k_{27} + d_3^6 k_3 - d_7^6 k_7 - d_9^6 k_9 + 2 d_{19}^5 \bar{k}_{19} n_{1,19} - 2 d_{21}^5 \bar{k}_{21} n_{1,21} - 2 d_{25}^5 \bar{k}_{25} n_{1,25} + 2 d_{27}^5 \bar{k}_{27} n_{1,27} + 2 d_3^5 \bar{k}_3 n_{1,3} + 2 d_7^5 \bar{k}_7 n_{1,7} - 2 d_9^5 \bar{k}_9 n_{1,9}) b_z + 3(\bar{k}_1 n_{3,1} d_1^5 + d_{10}^5 \bar{k}_{10} n_{3,10} + d_{12}^5 \bar{k}_{12} n_{3,12} - d_{16}^5 \bar{k}_{16} n_{3,16} - d_{18}^5 \bar{k}_{18} n_{3,18} + d_{19}^5 \bar{k}_{19} n_{3,19} + d_{21}^5 \bar{k}_{21} n_{3,21} - d_{25}^5 \bar{k}_{25} n_{3,25} - d_{27}^5 \bar{k}_{27} n_{3,27} + d_3^5 \bar{k}_3 n_{3,3} - d_7^5 \bar{k}_7 n_{3,7} - d_9^5 \bar{k}_9 n_{3,9})) {b_y}^3 - 3 b_z((b_z^2 - 3)\bar{k}_1 n_{2,1} d_1^5 - (b_z^2 - 3) d_{19}^5 \bar{k}_{19} n_{2,19} + b_z^2 d_2^5 \bar{k}_2 n_{2,2} - b_z^2 d_{20}^5 \bar{k}_{20} n_{2,20} - b_z^2 d_{21}^5 \bar{k}_{21} n_{2,21} + 3 d_{21}^5 \bar{k}_{21} n_{2,21} - b_z^2 d_{25}^5 \bar{k}_{25} n_{2,25} + 3 d_{25}^5 \bar{k}_{25} n_{2,25} - b_z^2 d_{26}^5 \bar{k}_{26} n_{2,26} - b_z^2 d_{27}^5 \bar{k}_{27} n_{2,27} + 3 d_{27}^5 \bar{k}_{27} n_{2,27} + b_z^2 d_3^5 \bar{k}_3 n_{2,3} - 3 d_3^5 \bar{k}_3 n_{2,3} + b_z^2 d_7^5 \bar{k}_7 n_{2,7} - 3 d_7^5 \bar{k}_7 n_{2,7} + b_z^2 d_8^5 \bar{k}_8 n_{2,8} + b_z^2 d_9^5 \bar{k}_9 n_{2,9} - 3 d_9^5 \bar{k}_9 n_{2,9}) {b_y}^2 - 3(\bar{k}_1 n_{3,1} d_1^5 + {b_z}^3 (k_1 d_1^6 - 2\bar{k}_1 n_{1,1} d_1^5 - d_{19}^6 k_{19} - d_{21}^6 k_{21} + d_{25}^6 k_{25} + d_{27}^6 k_{27} + d_3^6 k_3 - d_7^6 k_7 - d_9^6 k_9 + 2 d_{19}^5 \bar{k}_{19} n_{1,19} - 2 d_{21}^5 \bar{k}_{21} n_{1,21} - 2 d_{25}^5 \bar{k}_{25} n_{1,25} + 2 d_{27}^5 \bar{k}_{27} n_{1,27} + 2 d_3^5 \bar{k}_3 n_{1,3} + 2 d_7^5 \bar{k}_7 n_{1,7} - 2 d_9^5 \bar{k}_9 n_{1,9}) + b_z(-k_1 d_1^6 + 4\bar{k}_1 n_{1,1} d_1^5 + d_{19}^6 k_{19} + d_{21}^6 k_{21} - d_{25}^6 k_{25} - d_{27}^6 k_{27} - d_3^6 k_3 + d_7^6 k_7 + d_9^6 k_9 - 4 d_{19}^5 \bar{k}_{19} n_{1,19} + 4 d_{21}^5 \bar{k}_{21} n_{1,21} + 4 d_{25}^5 \bar{k}_{25} n_{1,25} - 4 d_{27}^5 \bar{k}_{27} n_{1,27} - 4 d_3^5 \bar{k}_3 n_{1,3} - 4 d_7^5 \bar{k}_7 n_{1,7} + 4 d_9^5 \bar{k}_9 n_{1,9}) + d_{10}^5 \bar{k}_{10} n_{3,10} + d_{12}^5 \bar{k}_{12} n_{3,12} - d_{16}^5 \bar{k}_{16} n_{3,16} - d_{18}^5 \bar{k}_{18} n_{3,18} + d_{19}^5 \bar{k}_{19} n_{3,19} + d_{21}^5 \bar{k}_{21} n_{3,21} - d_{25}^5 \bar{k}_{25} n_{3,25} - d_{27}^5 \bar{k}_{27} n_{3,27} + d_3^5 \bar{k}_3 n_{3,3} - d_7^5 \bar{k}_7 n_{3,7} - d_9^5 \bar{k}_9 n_{3,9}) - 3 b_z^2 (\bar{k}_1 n_{3,1} d_1^5 + d_{19}^5 \bar{k}_{19} n_{3,19} + d_{21}^5 \bar{k}_{21} n_{3,21} - d_{25}^5 \bar{k}_{25} n_{3,25} - d_{27}^5 \bar{k}_{27} n_{3,27} + d_3^5 \bar{k}_3 n_{3,3} - d_7^5 \bar{k}_7 n_{3,7} - d_9^5 \bar{k}_9 n_{3,9})) b_y + 3 b_z(b_z^2 - 1)(\bar{k}_1 n_{2,1} d_1^5 - d_{19}^5 \bar{k}_{19} n_{2,19} - d_{21}^5 \bar{k}_{21} n_{2,21} - d_{22}^5 \bar{k}_{22} n_{2,22} - d_{24}^5 \bar{k}_{24} n_{2,24} - d_{25}^5 \bar{k}_{25} n_{2,25} - d_{27}^5 \bar{k}_{27} n_{2,27} + d_3^5 \bar{k}_3 n_{2,3} + d_4^5 \bar{k}_4 n_{2,4} + d_6^5 \bar{k}_6 n_{2,6} + d_7^5 \bar{k}_7 n_{2,7} + d_9^5 \bar{k}_9 n_{2,9}))$$

$$b_{41} = \frac{1}{240}((5(b_z^2 - 1){b_y}^4 + (10 - 30 b_z^2){b_y}^2 + 5 b_z^2 - 1) k_1 d_1^6 + 2\bar{k}_1((5{b_y}^4 + 10(3 b_z^2 - 2){b_y}^2 - 10 b_z^2 + 3) n_{1,1} - 5(b_z n_{3,1} {b_y}^4 + 2(b_z^2 - 1) n_{2,1} {b_y}^3 - 6 b_z n_{3,1} {b_y}^2 + (2 - 6 b_z^2) n_{2,1} b_y + b_z n_{3,1})) d_1^5 - (5{b_y}^4 - 10{b_y}^2 + 1) d_{10}^6 k_{10} - (5{b_y}^4 - 10{b_y}^2 + 1) d_{12}^6 k_{12} - d_{13}^6 k_{13} - d_{15}^6 k_{15} - (5{b_y}^4 - 10{b_y}^2 + 1) d_{16}^6 k_{16} - (5{b_y}^4 - 10{b_y}^2 + 1) d_{18}^6 k_{18} + (5(b_z^2 - 1){b_y}^4 + (10 - 30 b_z^2){b_y}^2 + 5 b_z^2 - 1) d_{19}^6 k_{19} + 5{b_y}^4 b_z^2 d_2^6 k_2 + 5{b_y}^4 b_z^2 d_{20}^6 k_{20} + (5(b_z^2 - 1){b_y}^4 + (10 - 30 b_z^2){b_y}^2 + 5 b_z^2 - 1) d_{21}^6 k_{21} + (5 b_z^2 - 1) d_{22}^6 k_{22} + (5 b_z^2 - 1) d_{24}^6 k_{24} + (5(b_z^2 - 1){b_y}^4 + (10 - 30 b_z^2){b_y}^2 + 5 b_z^2 - 1) d_{25}^6 k_{25} + 5{b_y}^4 b_z^2 d_{26}^6 k_{26} + (5(b_z^2 - 1){b_y}^4 + (10 - 30 b_z^2){b_y}^2 + 5 b_z^2 - 1) d_{27}^6 k_{27} + (5(b_z^2 - 1){b_y}^4 + (10 - 30 b_z^2){b_y}^2 + 5 b_z^2 - 1) d_3^6 k_3 + (5 b_z^2 - 1) d_4^6 k_4 + (5 b_z^2 - 1) d_6^6 k_6 + (5(b_z^2 - 1){b_y}^4 + (10 - 30 b_z^2){b_y}^2 + 5 b_z^2 - 1) d_7^6 k_7 + 5{b_y}^4 b_z^2 d_8^6 k_8 + (5(b_z^2 - 1){b_y}^4 + (10 - 30 b_z^2){b_y}^2 + 5 b_z^2 - 1) d_9^6 k_9 + 6 d_{13}^6 \bar{k}_{13} n_{1,13} - 6 d_{15}^5 \bar{k}_{15} n_{1,15} + 2 d_{10}^5 \bar{k}_{10}((5{b_y}^4 - 20{b_y}^2 + 3) n_{1,10} + 10 b_y(b_y^2 - 1) n_{2,10}) - 2 d_{12}^5 \bar{k}_{12}((5{b_y}^4 - 20{b_y}^2 + 3) n_{1,12} - 10 b_y(b_y^2 - 1) n_{2,12}) + 2 d_{16}^5 \bar{k}_{16}((5{b_y}^4 - 20{b_y}^2 + 3) n_{1,16} - 10 b_y(b_y^2 - 1) n_{2,16}) - 2 d_{18}^5 \bar{k}_{18}((5{b_y}^4 - 20{b_y}^2 + 3) n_{1,18} + 10 b_y(b_y^2 - 1) n_{2,18}) + 2 d_{19}^5 \bar{k}_{19}((5{b_y}^4 + 10(3 b_z^2 - 2){b_y}^2 - 10 b_z^2 + 3) n_{1,19} + 5(b_z n_{3,19} {b_y}^4 - 2(b_z^2 - 1) n_{2,19} {b_y}^3 - 6 b_z n_{3,19} {b_y}^2 + 2(3 b_z^2 - 1) n_{2,19} b_y + b_z n_{3,19})) - 10 {b_y}^3 b_z d_2^5 \bar{k}_2(2 b_z n_{2,2} + b_y n_{3,2}) + 10 {b_y}^3 b_z d_{20}^5 \bar{k}_{20}(b_y n_{3,20} - 2 b_z n_{2,20}) + 2 d_{21}^5 \bar{k}_{21}((-5{b_y}^4 + (20 - 30 b_z^2){b_y}^2 + 10 b_z^2 - 3) n_{1,21} + 5(b_z n_{3,21} {b_y}^4 - 2(b_z^2 - 1) n_{2,21} {b_y}^3 - 6 b_z n_{3,21} {b_y}^2 + 2(3 b_z^2 - 1) n_{2,21} b_y + b_z n_{3,21})) + 2 d_{22}^5 \bar{k}_{22}((3 - 10 b_z^2) n_{1,22} + 5 b_z n_{3,22}) + 2 d_{24}^5 \bar{k}_{24}((10 b_z^2 - 3) n_{1,24} + 5 b_z n_{3,24}) + 2 d_{25}^5 \bar{k}_{25}((5{b_y}^4 + 10(3 b_z^2 - 2){b_y}^2 - 10 b_z^2 + 3) n_{1,25} + 5(b_z n_{3,25} {b_y}^4 + 2(b_z^2 - 1) n_{2,25} {b_y}^3 - 6 b_z n_{3,25} {b_y}^2 + (2 - 6 b_z^2) n_{2,25} b_y + b_z n_{3,25})) + 10 {b_y}^3 b_z d_{26}^5 \bar{k}_{26}(2 b_z n_{2,26} + b_y n_{3,26}) + 2 d_{27}^5 \bar{k}_{27}((-5{b_y}^4 + (20 - 30 b_z^2){b_y}^2 + 10 b_z^2 - 3) n_{1,27} + 5(b_z n_{3,27} {b_y}^4 + 2(b_z^2 - 1) n_{2,27} {b_y}^3 - 6 b_z n_{3,27} {b_y}^2 + (2 - 6 b_z^2) n_{2,27} b_y + b_z n_{3,27})) - 2 d_3^5 \bar{k}_3((5{b_y}^4 + 10(3 b_z^2 - 2){b_y}^2 - 10 b_z^2 + 3) n_{1,3} + 5(b_z n_{3,3} {b_y}^4 + 2(b_z^2 - 1) n_{2,3} {b_y}^3 - 6 b_z n_{3,3} {b_y}^2 + (2 - 6 b_z^2) n_{2,3} b_y + b_z n_{3,3})) - 2 d_4^5 \bar{k}_4((10 b_z^2 - 3) n_{1,4} + 5 b_z n_{3,4}) + 2 d_6^5 \bar{k}_6((10 b_z^2 - 3) n_{1,6} - 5 b_z n_{3,6}) + 2 d_7^5 \bar{k}_7((5{b_y}^4 + 10(3 b_z^2 - 2){b_y}^2 - 10 b_z^2 + 3) n_{1,7} - 5(b_z n_{3,7} {b_y}^4 - 2(b_z^2 - 1) n_{2,7} {b_y}^3 - 6 b_z n_{3,7} {b_y}^2 + 2(3 b_z^2 - 1) n_{2,7} b_y + b_z n_{3,7})) - 10 {b_y}^3 b_z d_8^5 \bar{k}_8(b_y n_{3,8} - 2 b_z n_{2,8}) - 2 d_9^5 \bar{k}_9((5{b_y}^4 + 10(3 b_z^2 - 2){b_y}^2 - 10 b_z^2 + 3) n_{1,9} + 5(b_z n_{3,9} {b_y}^4 - 2(b_z^2 - 1) n_{2,9} {b_y}^3 - 6 b_z n_{3,9} {b_y}^2 + 2(3 b_z^2 - 1) n_{2,9} b_y + b_z n_{3,9})))$$

$$b_{42} = \frac{1}{120}({b_y}^5(b_z(d_1^6 k_1 - d_{19}^6 k_{19} + d_2^6 k_2 - d_{20}^6 k_{20} - d_{21}^6 k_{21} + d_{25}^6 k_{25} + d_{26}^6 k_{26} + d_{27}^6 k_{27} + d_3^6 k_3 - d_7^6 k_7 - d_8^6 k_8 - d_9^6 k_9) + d_1^5(-\bar{k}_1) n_{3,1} - d_{10}^5 \bar{k}_{10} n_{3,10} - d_{11}^5 \bar{k}_{11} n_{3,11} - d_{12}^5 \bar{k}_{12} n_{3,12} + d_{16}^5 \bar{k}_{16} n_{3,16} + d_{17}^5 \bar{k}_{17} n_{3,17} + d_{18}^5 \bar{k}_{18} n_{3,18} - d_{19}^5 \bar{k}_{19} n_{3,19} - d_2^5 \bar{k}_2 n_{3,2} - d_{20}^5 \bar{k}_{20} n_{3,20} - d_{21}^5 \bar{k}_{21} n_{3,21} + d_{25}^5 \bar{k}_{25} n_{3,25} + d_{26}^5 \bar{k}_{26} n_{3,26} + d_{27}^5 \bar{k}_{27} n_{3,27} - d_3^5 \bar{k}_3 n_{3,3} + d_7^5 \bar{k}_7 n_{3,7} + d_8^5 \bar{k}_8 n_{3,8} + d_9^5 \bar{k}_9 n_{3,9}) - 5{b_y}^4 b_z(d_1^5 \bar{k}_1 n_{2,1} - d_{19}^5 \bar{k}_{19} n_{2,19} + d_2^5 \bar{k}_2 n_{2,2} - d_{20}^5 \bar{k}_{20} n_{2,20} - d_{21}^5 \bar{k}_{21} n_{2,21} - d_{25}^5 \bar{k}_{25} n_{2,25} - d_{26}^5 \bar{k}_{26} n_{2,26} - d_{27}^5 \bar{k}_{27} n_{2,27} + d_3^5 \bar{k}_3 n_{2,3} + d_7^5 \bar{k}_7 n_{2,7} + d_8^5 \bar{k}_8 n_{2,8} + d_9^5 \bar{k}_9 n_{2,9}) - 10 {b_y}^3(b_z(d_1^6 k_1 - 2 d_1^5 \bar{k}_1 n_{1,1} - d_{19}^6 k_{19} + 2 d_{19}^5 \bar{k}_{19} n_{1,19} - d_{21}^6 k_{21} - 2 d_{21}^5 \bar{k}_{21} n_{1,21} + d_{25}^6 k_{25} - 2 d_{25}^5 \bar{k}_{25} n_{1,25} + d_{27}^6 k_{27} + 2 d_{27}^5 \bar{k}_{27} n_{1,27} + d_3^6 k_3 + 2 d_3^5 \bar{k}_3 n_{1,3} - d_7^6 k_7 +$$

$2d_7^5\bar{k}_7 n_{1,7} - d_9^6 k_9 - 2d_9^5\bar{k}_9 n_{1,9}) + d_1^5(-\bar{k}_1)n_{3,1} - d_{10}^5\bar{k}_{10}n_{3,10} - d_{12}^5\bar{k}_{12}n_{3,12} + d_{16}^5\bar{k}_{16}n_{3,16} + d_{18}^5\bar{k}_{18}n_{3,18} - d_{19}^5\bar{k}_{19}n_{3,19} - d_{21}^5\bar{k}_{21}n_{3,21} + d_{25}^5\bar{k}_{25}n_{3,25} + d_{27}^5\bar{k}_{27}n_{3,27} - d_3^5\bar{k}_3 n_{3,3} + d_7^5\bar{k}_7 n_{3,7} + d_9^5\bar{k}_9 n_{3,9}) + 30{b_y}^2 b_z(d_1^5\bar{k}_1 n_{2,1} - d_{19}^5\bar{k}_{19}n_{2,19} - d_{21}^5\bar{k}_{21}n_{2,21} - d_{25}^5\bar{k}_{25}n_{2,25} - d_{27}^5\bar{k}_{27}n_{2,27} + d_3^5\bar{k}_3 n_{2,3} + d_7^5\bar{k}_7 n_{2,7} + d_9^5\bar{k}_9 n_{2,9}) + 5b_y(b_z(d_1^6 k_1 - 4d_1^5\bar{k}_1 n_{1,1} - d_{19}^6 k_{19} + 4d_{19}^5\bar{k}_{19}n_{1,19} - d_{21}^6 k_{21} - 4d_{21}^5\bar{k}_{21}n_{1,21} + d_{25}^6 k_{25} - 4d_{25}^5\bar{k}_{25}n_{1,25} + d_{27}^6 k_{27} + 4d_{27}^5\bar{k}_{27}n_{1,27} + d_3^6 k_3 + 4d_3^5\bar{k}_3 n_{1,3} - d_7^6 k_7 + 4d_7^5\bar{k}_7 n_{1,7} - d_9^6 k_9 - 4d_9^5\bar{k}_9 n_{1,9}) + d_1^5(-\bar{k}_1)n_{3,1} - d_{10}^5\bar{k}_{10}n_{3,10} - d_{12}^5\bar{k}_{12}n_{3,12} + d_{16}^5\bar{k}_{16}n_{3,16} + d_{18}^5\bar{k}_{18}n_{3,18} - d_{19}^5\bar{k}_{19}n_{3,19} - d_{21}^5\bar{k}_{21}n_{3,21} + d_{25}^5\bar{k}_{25}n_{3,25} + d_{27}^5\bar{k}_{27}n_{3,27} - d_3^5\bar{k}_3 n_{3,3} + d_7^5\bar{k}_7 n_{3,7} + d_9^5\bar{k}_9 n_{3,9}) - 5b_z(d_1^5\bar{k}_1 n_{2,1} - d_{19}^5\bar{k}_{19}n_{2,19} - d_{21}^5\bar{k}_{21}n_{2,21} - d_{22}^5\bar{k}_{22}n_{2,22} - d_{24}^5\bar{k}_{24}n_{2,24} - d_{25}^5\bar{k}_{25}n_{2,25} - d_{27}^5\bar{k}_{27}n_{2,27} + d_3^5\bar{k}_3 n_{2,3} + d_4^5\bar{k}_4 n_{2,4} + d_6^5\bar{k}_6 n_{2,6} + d_7^5\bar{k}_7 n_{2,7} + d_9^5\bar{k}_9 n_{2,9}))$

$b_{43} = \frac{1}{720}((b_y{}^6 - 15b_y{}^4 + 15b_y{}^2 - 1)k_1 d_1^6 + 6\bar{k}_1((5b_y{}^4 - 10b_y{}^2 + 1)n_{1,1} - b_y(b_y{}^4 - 10b_y{}^2 + 5)n_{2,1})d_1^5 + (b_y{}^6 - 15b_y{}^4 + 15b_y{}^2 - 1)d_{10}^6 k_{10} + b_y{}^6 d_{11}^6 k_{11} + (b_y{}^6 - 15b_y{}^4 + 15b_y{}^2 - 1)d_{12}^6 k_{12} - d_{13}^6 k_{13} - d_{15}^6 k_{15} + (b_y{}^6 - 15b_y{}^4 + 15b_y{}^2 - 1)d_{16}^6 k_{16} + b_y{}^6 d_{17}^6 k_{17} + (b_y{}^6 - 15b_y{}^4 + 15b_y{}^2 - 1)d_{18}^6 k_{18} + (b_y{}^6 - 15b_y{}^4 + 15b_y{}^2 - 1)d_{19}^6 k_{19} + b_y{}^6 d_2^6 k_2 + b_y{}^6 d_{20}^6 k_{20} + (b_y{}^6 - 15b_y{}^4 + 15b_y{}^2 - 1)d_{21}^6 k_{21} - d_{22}^6 k_{22} - d_{24}^6 k_{24} + (b_y{}^6 - 15b_y{}^4 + 15b_y{}^2 - 1)d_{25}^6 k_{25} + b_y{}^6 d_{26}^6 k_{26} + (b_y{}^6 - 15b_y{}^4 + 15b_y{}^2 - 1)d_{27}^6 k_{27} + (b_y{}^6 - 15b_y{}^4 + 15b_y{}^2 - 1)d_3^6 k_3 - d_4^6 k_4 - d_6^6 k_6 + (b_y{}^6 - 15b_y{}^4 + 15b_y{}^2 - 1)d_7^6 k_7 + b_y{}^6 d_8^6 k_8 + (b_y{}^6 - 15b_y{}^4 + 15b_y{}^2 - 1)d_9^6 k_9 + 6d_{13}^5\bar{k}_{13}n_{1,13} - 6d_{15}^5\bar{k}_{15}n_{1,15} + 6d_{22}^5\bar{k}_{22}n_{1,22} - 6d_{24}^5\bar{k}_{24}n_{1,24} + 6d_4^5\bar{k}_4 n_{1,4} - 6d_6^5\bar{k}_6 n_{1,6} + 6d_{10}^5\bar{k}_{10}((5b_y{}^4 - 10b_y{}^2 + 1)n_{1,10} - b_y(b_y{}^4 - 10b_y{}^2 + 5)n_{2,10}) - 6b_y{}^5 d_{11}^5\bar{k}_{11}n_{2,11} - 6d_{12}^5\bar{k}_{12}((5b_y{}^4 - 10b_y{}^2 + 1)n_{1,12} + b_y(b_y{}^4 - 10b_y{}^2 + 5)n_{2,12}) + 6d_{16}^5\bar{k}_{16}((5b_y{}^4 - 10b_y{}^2 + 1)n_{1,16} + b_y(b_y{}^4 - 10b_y{}^2 + 5)n_{2,16}) + 6b_y{}^5 d_{17}^5\bar{k}_{17}n_{2,17} - 6d_{18}^5\bar{k}_{18}((5b_y{}^4 - 10b_y{}^2 + 1)n_{1,18} - b_y(b_y{}^4 - 10b_y{}^2 + 5)n_{2,18}) + 6d_{19}^5\bar{k}_{19}((5b_y{}^4 - 10b_y{}^2 + 1)n_{1,19} - b_y(b_y{}^4 - 10b_y{}^2 + 5)n_{2,19}) - 6b_y{}^5 d_2^5\bar{k}_2 n_{2,2} - 6b_y{}^5 d_{20}^5\bar{k}_{20}n_{2,20} - 6d_{21}^5\bar{k}_{21}((5b_y{}^4 - 10b_y{}^2 + 1)n_{1,21} + b_y(b_y{}^4 - 10b_y{}^2 + 5)n_{2,21}) + 6d_{25}^5\bar{k}_{25}((5b_y{}^4 - 10b_y{}^2 + 1)n_{1,25} + b_y(b_y{}^4 - 10b_y{}^2 + 5)n_{2,25}) + 6b_y{}^5 d_{26}^5\bar{k}_{26}n_{2,26} - 6d_{27}^5\bar{k}_{27}((5b_y{}^4 - 10b_y{}^2 + 1)n_{1,27} - b_y(b_y{}^4 - 10b_y{}^2 + 5)n_{2,27}) - 6d_3^5\bar{k}_3((5b_y{}^4 - 10b_y{}^2 + 1)n_{1,3} + b_y(b_y{}^4 - 10b_y{}^2 + 5)n_{2,3}) + 6d_7^5\bar{k}_7((5b_y{}^4 - 10b_y{}^2 + 1)n_{1,7} + b_y(b_y{}^4 - 10b_y{}^2 + 5)n_{2,7}) + 6b_y{}^5 d_8^5\bar{k}_8 n_{2,8} - 6d_9^5\bar{k}_9((5b_y{}^4 - 10b_y{}^2 + 1)n_{1,9} - b_y(b_y{}^4 - 10b_y{}^2 + 5)n_{2,9}))$

$b_{44} = \frac{1}{360}(3b_z{}^5(d_1^6 k_1 - d_1^5\bar{k}_1 n_{1,1} - d_{19}^6 k_{19} + d_{19}^5\bar{k}_{19}n_{1,19} - d_2^5\bar{k}_2 n_{1,2} + d_{20}^5\bar{k}_{20}n_{1,20} + d_{21}^6 k_{21} + d_{21}^5\bar{k}_{21}n_{1,21} - d_{22}^6 k_{22} + d_{22}^5\bar{k}_{22}n_{1,22} + d_{23}^5\bar{k}_{23}n_{1,23} + d_{24}^6 k_{24} + d_{24}^5\bar{k}_{24}n_{1,24} - d_{25}^6 k_{25} + d_{25}^5\bar{k}_{25}n_{1,25} + d_{26}^5\bar{k}_{26}n_{1,26} + d_{27}^6 k_{27} + d_{27}^5\bar{k}_{27}n_{1,27} - d_3^6 k_3 - d_3^5\bar{k}_3 n_{1,3} + d_4^6 k_4 - d_4^5\bar{k}_4 n_{1,4} - d_5^5\bar{k}_5 n_{1,5} - d_6^6 k_6 - d_6^5\bar{k}_6 n_{1,6} + d_7^6 k_7 - d_7^5\bar{k}_7 n_{1,7} - d_8^5\bar{k}_8 n_{1,8} - d_9^6 k_9 - d_9^5\bar{k}_9 n_{1,9}) - 15b_z{}^4(d_1^5\bar{k}_1 n_{3,1} + d_{19}^5\bar{k}_{19}n_{3,19} - d_{21}^5\bar{k}_{21}n_{3,21} + d_{22}^5\bar{k}_{22}n_{3,22} - d_{24}^5\bar{k}_{24}n_{3,24} + d_{25}^5\bar{k}_{25}n_{3,25} - d_{27}^5\bar{k}_{27}n_{3,27} - d_3^5\bar{k}_3 n_{3,3} + d_4^5\bar{k}_4 n_{3,4} - d_6^5\bar{k}_6 n_{3,6} + d_7^5\bar{k}_7 n_{3,7} - d_9^5\bar{k}_9 n_{3,9}) - 10b_z{}^3(d_1^6 k_1 - 3d_1^5\bar{k}_1 n_{1,1} - d_{19}^6 k_{19} + 3d_{19}^5\bar{k}_{19}n_{1,19} + d_{21}^6 k_{21} + 3d_{21}^5\bar{k}_{21}n_{1,21} - d_{22}^6 k_{22} + 3d_{22}^5\bar{k}_{22}n_{1,22} + d_{24}^6 k_{24} + 3d_{24}^5\bar{k}_{24}n_{1,24} - d_{25}^6 k_{25} + 3d_{25}^5\bar{k}_{25}n_{1,25} + d_{27}^6 k_{27} + 3d_{27}^5\bar{k}_{27}n_{1,27} - d_3^6 k_3 - 3d_3^5\bar{k}_3 n_{1,3} + d_4^6 k_4 - 3d_4^5\bar{k}_4 n_{1,4} - d_6^6 k_6 - 3d_6^5\bar{k}_6 n_{1,6} + d_7^6 k_7 - 3d_7^5\bar{k}_7 n_{1,7} - d_9^6 k_9 - 3d_9^5\bar{k}_9 n_{1,9}) + 30b_z{}^2(d_1^5\bar{k}_1 n_{3,1} + d_{19}^5\bar{k}_{19}n_{3,19} - d_{21}^5\bar{k}_{21}n_{3,21} + d_{22}^5\bar{k}_{22}n_{3,22} - d_{24}^5\bar{k}_{24}n_{3,24} + d_{25}^5\bar{k}_{25}n_{3,25} - d_{27}^5\bar{k}_{27}n_{3,27} - d_3^5\bar{k}_3 n_{3,3} + d_4^5\bar{k}_4 n_{3,4} - d_6^5\bar{k}_6 n_{3,6} + d_7^5\bar{k}_7 n_{3,7} - d_9^5\bar{k}_9 n_{3,9}) + 3b_z(d_1^6 k_1 - 5d_1^5\bar{k}_1 n_{1,1} - d_{19}^6 k_{19} + 5d_{19}^5\bar{k}_{19}n_{1,19} + d_{21}^6 k_{21} + 5d_{21}^5\bar{k}_{21}n_{1,21} - d_{22}^6 k_{22} + 5d_{22}^5\bar{k}_{22}n_{1,22} + d_{24}^6 k_{24} + 5d_{24}^5\bar{k}_{24}n_{1,24} - d_{25}^6 k_{25} + 5d_{25}^5\bar{k}_{25}n_{1,25} + d_{27}^6 k_{27} + 5d_{27}^5\bar{k}_{27}n_{1,27} - d_3^6 k_3 - 5d_3^5\bar{k}_3 n_{1,3} + d_4^6 k_4 - 5d_4^5\bar{k}_4 n_{1,4} - d_6^6 k_6 - 5d_6^5\bar{k}_6 n_{1,6} + d_7^6 k_7 - 5d_7^5\bar{k}_7 n_{1,7} - d_9^6 k_9 - 5d_9^5\bar{k}_9 n_{1,9}) - 3(d_1^5\bar{k}_1 n_{3,1} + d_{10}^5\bar{k}_{10}n_{3,10} - d_{12}^5\bar{k}_{12}n_{3,12} + d_{13}^5\bar{k}_{13}n_{3,13} - d_{15}^5\bar{k}_{15}n_{3,15} + d_{16}^5\bar{k}_{16}n_{3,16} - d_{18}^5\bar{k}_{18}n_{3,18} + d_{19}^5\bar{k}_{19}n_{3,19} - d_{21}^5\bar{k}_{21}n_{3,21} + d_{22}^5\bar{k}_{22}n_{3,22} - d_{24}^5\bar{k}_{24}n_{3,24} + d_{25}^5\bar{k}_{25}n_{3,25} - d_{27}^5\bar{k}_{27}n_{3,27} - d_3^5\bar{k}_3 n_{3,3} + d_4^5\bar{k}_4 n_{3,4} - d_6^5\bar{k}_6 n_{3,6} + d_7^5\bar{k}_7 n_{3,7} - d_9^5\bar{k}_9 n_{3,9}))$

$b_{45} = \frac{1}{120}(-5b_y b_z{}^4 d_2^5\bar{k}_2 n_{1,2} - 5b_y b_z{}^4 d_{20}^5\bar{k}_{20}n_{1,20} + 5b_y b_z{}^4 d_{26}^5\bar{k}_{26}n_{1,26} + 5b_y b_z{}^4 d_8^5\bar{k}_8 n_{1,8} + b_y(5b_z{}^4 - 10b_z{}^2 + 1)d_1^6 k_1 - d_1^5\bar{k}_1(5b_y(4b_z(b_z{}^2 - 1)n_{3,1} + (b_z{}^4 - 6b_z{}^2 + 1)n_{1,1}) + (5b_z{}^4 - 10b_z{}^2 + 1)n_{2,1}) + b_y(5b_z{}^4 - 10b_z{}^2 + 1)d_{19}^6 k_{19} - d_{19}^5\bar{k}_{19}(5b_y((b_z{}^4 - 6b_z{}^2 + 1)n_{1,19} - 4b_z(b_z{}^2 - 1)n_{3,19}) + (5b_z{}^4 - 10b_z{}^2 + 1)n_{2,19}) - b_y(5b_z{}^4 - 10b_z{}^2 + 1)d_{21}^6 k_{21} + d_{21}^5\bar{k}_{21}((5b_z{}^4 - 10b_z{}^2 + 1)n_{2,21} - 5b_y(4b_z(b_z{}^2 - 1)n_{3,21} + (b_z{}^4 - 6b_z{}^2 + 1)n_{1,21})) - b_y(5b_z{}^4 - 10b_z{}^2 + 1)d_{25}^6 k_{25} + d_{25}^5\bar{k}_{25}(5b_y((b_z{}^4 - 6b_z{}^2 + 1)n_{1,25} - 4b_z(b_z{}^2 - 1)n_{3,25}) + (-5b_z{}^4 + 10b_z{}^2 - 1)n_{2,25}) + b_y(5b_z{}^4 - 10b_z{}^2 + 1)d_{27}^6 k_{27} + d_{27}^5\bar{k}_{27}(5b_y(4b_z(b_z{}^2 - 1)n_{3,27} + (b_z{}^4 - 6b_z{}^2 + 1)n_{1,27}) + (5b_z{}^4 - 10b_z{}^2 + 1)n_{2,27}) - b_y(5b_z{}^4 - 10b_z{}^2 + 1)d_3^6 k_3 - d_3^5\bar{k}_3(5b_y((b_z{}^4 - 6b_z{}^2 + 1)n_{1,3} - 4b_z(b_z{}^2 - 1)n_{3,3}) + (-5b_z{}^4 + 10b_z{}^2 - 1)n_{2,3}) - b_y(5b_z{}^4 - 10b_z{}^2 + 1)d_7^6 k_7 - d_7^5\bar{k}_7((5b_z{}^4 -$

$10{b_z}^2+1)n_{2,7}-5b_y(4b_z({b_z}^2-1)n_{3,7}+({b_z}^4-6{b_z}^2+1)n_{1,7}))+b_y(5{b_z}^4-10{b_z}^2+1)d_9^6k_9+d_9^5\bar{k}_9(5b_y(({b_z}^4-6{b_z}^2+1)n_{1,9}-4b_z({b_z}^2-1)n_{3,9})+(5{b_z}^4-10{b_z}^2+1)n_{2,9})+b_yd_{10}^6k_{10}-d_{10}^5\bar{k}_{10}(5b_yn_{1,10}+n_{2,10})-b_yd_{12}^6k_{12}+d_{12}^5\bar{k}_{12}(n_{2,12}-5b_yn_{1,12})-b_yd_{16}^6k_{16}+d_{16}^5\bar{k}_{16}(5b_yn_{1,16}-n_{2,16})+b_yd_{18}^6k_{18}+d_{18}^5\bar{k}_{18}(5b_yn_{1,18}+n_{2,18})-(5{b_z}^4-10{b_z}^2+1)d_{22}^5\bar{k}_{22}n_{2,22}+(5{b_z}^4-10{b_z}^2+1)d_{24}^5\bar{k}_{24}n_{2,24}-(5{b_z}^4-10{b_z}^2+1)d_4^5\bar{k}_4n_{2,4}+(5{b_z}^4-10{b_z}^2+1)d_6^5\bar{k}_6n_{2,6}-d_{13}^5\bar{k}_{13}n_{2,13}+d_{15}^5\bar{k}_{15}n_{2,15})$

$b_{46}=\frac{1}{180}(5((3{b_y}^2-1)k_1d_1^6-3\bar{k}_1(({b_y}^2-1)n_{1,1}+2b_yn_{2,1})d_1^5+d_{19}^6(k_{19}-3{b_y}^2k_{19})+3{b_y}^2d_{21}^6k_{21}-d_{21}^6k_{21}+d_{22}^6k_{22}-d_{24}^6k_{24}-3{b_y}^2d_{25}^6k_{25}+d_{25}^6k_{25}+3{b_y}^2d_{27}^6k_{27}-d_{27}^6k_{27}-3{b_y}^2d_3^6k_3+d_3^6k_3-d_4^6k_4+d_6^6k_6+3{b_y}^2d_7^6k_7-d_7^6k_7-3{b_y}^2d_9^6k_9+d_9^6k_9-3{b_y}^2d_2^5\bar{k}_2n_{1,2}+3{b_y}^2d_{20}^5\bar{k}_{20}n_{1,20}+3{b_y}^2d_{21}^5\bar{k}_{21}n_{1,21}-3d_{21}^5\bar{k}_{21}n_{1,21}-3d_{22}^5\bar{k}_{22}n_{1,22}-3d_{24}^5\bar{k}_{24}n_{1,24}+3{b_y}^2d_{25}^5\bar{k}_{25}n_{1,25}-3d_{25}^5\bar{k}_{25}n_{1,25}+3{b_y}^2d_{26}^5\bar{k}_{26}n_{1,26}+3{b_y}^2d_{27}^5\bar{k}_{27}n_{1,27}-3d_{27}^5\bar{k}_{27}n_{1,27}-3{b_y}^2d_3^5\bar{k}_3n_{1,3}+3d_3^5\bar{k}_3n_{1,3}+3d_4^5\bar{k}_4n_{1,4}+3d_6^5\bar{k}_6n_{1,6}-3{b_y}^2d_7^5\bar{k}_7n_{1,7}+3d_7^5\bar{k}_7n_{1,7}-3{b_y}^2d_8^5\bar{k}_8n_{1,8}-3{b_y}^2d_9^5\bar{k}_9n_{1,9}+3d_9^5\bar{k}_9n_{1,9}+3d_{19}^5\bar{k}_{19}(({b_y}^2-1)n_{1,19}+2b_yn_{2,19})-6b_yd_{21}^5\bar{k}_{21}n_{2,21}-6b_yd_{25}^5\bar{k}_{25}n_{2,25}+6b_yd_{27}^5\bar{k}_{27}n_{2,27}+6b_yd_3^5\bar{k}_3n_{2,3}+6b_yd_7^5\bar{k}_7n_{2,7}-6b_yd_9^5\bar{k}_9n_{2,9})b_z{}^3-15((3{b_y}^2-1)\bar{k}_1n_{3,1}d_1^5+(3{b_y}^2-1)d_{19}^5\bar{k}_{19}n_{3,19}-3{b_y}^2d_{21}^5\bar{k}_{21}n_{3,21}+d_{21}^5\bar{k}_{21}n_{3,21}-d_{22}^5\bar{k}_{22}n_{3,22}+d_{24}^5\bar{k}_{24}n_{3,24}+3{b_y}^2d_{25}^5\bar{k}_{25}n_{3,25}-d_{25}^5\bar{k}_{25}n_{3,25}-3{b_y}^2d_{27}^5\bar{k}_{27}n_{3,27}+d_{27}^5\bar{k}_{27}n_{3,27}-3{b_y}^2d_3^5\bar{k}_3n_{3,3}+d_3^5\bar{k}_3n_{3,3}-d_4^5\bar{k}_4n_{3,4}+d_6^5\bar{k}_6n_{3,6}+3{b_y}^2d_7^5\bar{k}_7n_{3,7}-d_7^5\bar{k}_7n_{3,7}-3{b_y}^2d_9^5\bar{k}_9n_{3,9}+d_9^5\bar{k}_9n_{3,9})b_z{}^2-3((5{b_y}^2-1)k_1d_1^6-5\bar{k}_1(({b_y}^2-1)n_{1,1}+2b_yn_{2,1})d_1^5+d_{19}^6(k_{19}-5{b_y}^2k_{19})+5{b_y}^2d_{21}^6k_{21}-d_{21}^6k_{21}+d_{22}^6k_{22}-d_{24}^6k_{24}-5{b_y}^2d_{25}^6k_{25}+d_{25}^6k_{25}+5{b_y}^2d_{27}^6k_{27}-d_{27}^6k_{27}-5{b_y}^2d_3^6k_3+d_3^6k_3-d_4^6k_4+d_6^6k_6+5{b_y}^2d_7^6k_7-d_7^6k_7-5{b_y}^2d_9^6k_9+d_9^6k_9+15{b_y}^2d_{21}^5\bar{k}_{21}n_{1,21}-5d_{21}^5\bar{k}_{21}n_{1,21}-5d_{22}^5\bar{k}_{22}n_{1,22}-5d_{24}^5\bar{k}_{24}n_{1,24}+15{b_y}^2d_{25}^5\bar{k}_{25}n_{1,25}-5d_{25}^5\bar{k}_{25}n_{1,25}+15{b_y}^2d_{27}^5\bar{k}_{27}n_{1,27}-5d_{27}^5\bar{k}_{27}n_{1,27}-15{b_y}^2d_3^5\bar{k}_3n_{1,3}+5d_3^5\bar{k}_3n_{1,3}+5d_4^5\bar{k}_4n_{1,4}+5d_6^5\bar{k}_6n_{1,6}-15{b_y}^2d_7^5\bar{k}_7n_{1,7}+5d_7^5\bar{k}_7n_{1,7}-15{b_y}^2d_9^5\bar{k}_9n_{1,9}+5d_9^5\bar{k}_9n_{1,9}+5d_{19}^5\bar{k}_{19}(3n_{1,19}{b_y}^2+2n_{2,19}b_y-n_{1,19})-10b_yd_{21}^5\bar{k}_{21}n_{2,21}-10b_yd_{25}^5\bar{k}_{25}n_{2,25}+10b_yd_{27}^5\bar{k}_{27}n_{2,27}+10b_yd_3^5\bar{k}_3n_{2,3}+10b_yd_7^5\bar{k}_7n_{2,7}-10b_yd_9^5\bar{k}_9n_{2,9})b_z+3((5{b_y}^2-1)\bar{k}_1n_{3,1}d_1^5+(5{b_y}^2-1)d_{10}^5\bar{k}_{10}n_{3,10}-5{b_y}^2d_{12}^5\bar{k}_{12}n_{3,12}+d_{12}^5\bar{k}_{12}n_{3,12}-d_{13}^5\bar{k}_{13}n_{3,13}+d_{15}^5\bar{k}_{15}n_{3,15}+5{b_y}^2d_{16}^5\bar{k}_{16}n_{3,16}-d_{16}^5\bar{k}_{16}n_{3,16}-5{b_y}^2d_{18}^5\bar{k}_{18}n_{3,18}+d_{18}^5\bar{k}_{18}n_{3,18}+5{b_y}^2d_{19}^5\bar{k}_{19}n_{3,19}-d_{19}^5\bar{k}_{19}n_{3,19}-5{b_y}^2d_{21}^5\bar{k}_{21}n_{3,21}+d_{21}^5\bar{k}_{21}n_{3,21}-d_{22}^5\bar{k}_{22}n_{3,22}+d_{24}^5\bar{k}_{24}n_{3,24}+5{b_y}^2d_{25}^5\bar{k}_{25}n_{3,25}-d_{25}^5\bar{k}_{25}n_{3,25}-5{b_y}^2d_{27}^5\bar{k}_{27}n_{3,27}+d_{27}^5\bar{k}_{27}n_{3,27}-5{b_y}^2d_3^5\bar{k}_3n_{3,3}+d_3^5\bar{k}_3n_{3,3}-d_4^5\bar{k}_4n_{3,4}+d_6^5\bar{k}_6n_{3,6}+5{b_y}^2d_7^5\bar{k}_7n_{3,7}-d_7^5\bar{k}_7n_{3,7}-5{b_y}^2d_9^5\bar{k}_9n_{3,9}+d_9^5\bar{k}_9n_{3,9}))$

$b_{47}=\frac{1}{180}(5((3{b_z}^2-1)k_1d_1^6-3\bar{k}_1(({b_z}^2-1)n_{1,1}+2b_zn_{3,1})d_1^5-d_{10}^6k_{10}+d_{12}^6k_{12}+d_{16}^6k_{16}-d_{18}^6k_{18}+3{b_z}^2d_{19}^6k_{19}-d_{19}^6k_{19}-3{b_z}^2d_{21}^6k_{21}+d_{21}^6k_{21}-3{b_z}^2d_{25}^6k_{25}+d_{25}^6k_{25}+3{b_z}^2d_{27}^6k_{27}-d_{27}^6k_{27}-3{b_z}^2d_3^6k_3+d_3^6k_3-3{b_z}^2d_7^6k_7+d_7^6k_7+3{b_z}^2d_9^6k_9-d_9^6k_9+3d_{10}^5\bar{k}_{10}n_{1,10}+3d_{12}^5\bar{k}_{12}n_{1,12}-3d_{16}^5\bar{k}_{16}n_{1,16}-3d_{18}^5\bar{k}_{18}n_{1,18}-3{b_z}^2d_{19}^5\bar{k}_{19}n_{1,19}+3d_{19}^5\bar{k}_{19}n_{1,19}-3{b_z}^2d_2^5\bar{k}_2n_{1,2}-3{b_z}^2d_{20}^5\bar{k}_{20}n_{1,20}-3{b_z}^2d_{21}^5\bar{k}_{21}n_{1,21}+3d_{21}^5\bar{k}_{21}n_{1,21}+3{b_z}^2d_{25}^5\bar{k}_{25}n_{1,25}-3d_{25}^5\bar{k}_{25}n_{1,25}+3{b_z}^2d_{26}^5\bar{k}_{26}n_{1,26}+3{b_z}^2d_{27}^5\bar{k}_{27}n_{1,27}-3d_{27}^5\bar{k}_{27}n_{1,27}-3{b_z}^2d_3^5\bar{k}_3n_{1,3}+3d_3^5\bar{k}_3n_{1,3}+3{b_z}^2d_7^5\bar{k}_7n_{1,7}-3d_7^5\bar{k}_7n_{1,7}+3{b_z}^2d_8^5\bar{k}_8n_{1,8}+3{b_z}^2d_9^5\bar{k}_9n_{1,9}-3d_9^5\bar{k}_9n_{1,9}+6b_zd_{19}^5\bar{k}_{19}n_{3,19}-6b_zd_{21}^5\bar{k}_{21}n_{3,21}-6b_zd_{25}^5\bar{k}_{25}n_{3,25}+6b_zd_{27}^5\bar{k}_{27}n_{3,27}+6b_zd_3^5\bar{k}_3n_{3,3}+6b_zd_7^5\bar{k}_7n_{3,7}-6b_zd_9^5\bar{k}_9n_{3,9})b_y{}^3-15((3{b_z}^2-1)\bar{k}_1n_{2,1}d_1^5-d_{10}^5\bar{k}_{10}n_{2,10}+d_{12}^5\bar{k}_{12}n_{2,12}-d_{16}^5\bar{k}_{16}n_{2,16}+d_{18}^5\bar{k}_{18}n_{2,18}+3{b_z}^2d_{19}^5\bar{k}_{19}n_{2,19}-d_{19}^5\bar{k}_{19}n_{2,19}-3{b_z}^2d_{21}^5\bar{k}_{21}n_{2,21}+d_{21}^5\bar{k}_{21}n_{2,21}+3{b_z}^2d_{25}^5\bar{k}_{25}n_{2,25}-d_{25}^5\bar{k}_{25}n_{2,25}-3{b_z}^2d_{27}^5\bar{k}_{27}n_{2,27}+d_{27}^5\bar{k}_{27}n_{2,27}-3{b_z}^2d_3^5\bar{k}_3n_{2,3}+d_3^5\bar{k}_3n_{2,3}+3{b_z}^2d_7^5\bar{k}_7n_{2,7}-d_7^5\bar{k}_7n_{2,7}-3{b_z}^2d_9^5\bar{k}_9n_{2,9}+d_9^5\bar{k}_9n_{2,9})b_y{}^2-3((5{b_z}^2-1)k_1d_1^6-5\bar{k}_1(3n_{1,1}{b_z}^2+2n_{3,1}b_z-n_{1,1})d_1^5-d_{10}^6k_{10}+d_{12}^6k_{12}+d_{16}^6k_{16}-d_{18}^6k_{18}+5{b_z}^2d_{19}^6k_{19}-d_{19}^6k_{19}-5{b_z}^2d_{21}^6k_{21}+d_{21}^6k_{21}-5{b_z}^2d_{25}^6k_{25}+d_{25}^6k_{25}+5{b_z}^2d_{27}^6k_{27}-d_{27}^6k_{27}-5{b_z}^2d_3^6k_3+d_3^6k_3-5{b_z}^2d_7^6k_7+d_7^6k_7+5{b_z}^2d_9^6k_9-d_9^6k_9+5d_{10}^5\bar{k}_{10}n_{1,10}+5d_{12}^5\bar{k}_{12}n_{1,12}-5d_{16}^5\bar{k}_{16}n_{1,16}-5d_{18}^5\bar{k}_{18}n_{1,18}-15{b_z}^2d_{19}^5\bar{k}_{19}n_{1,19}+5d_{19}^5\bar{k}_{19}n_{1,19}-15{b_z}^2d_{21}^5\bar{k}_{21}n_{1,21}+5d_{21}^5\bar{k}_{21}n_{1,21}+15{b_z}^2d_{25}^5\bar{k}_{25}n_{1,25}-5d_{25}^5\bar{k}_{25}n_{1,25}+15{b_z}^2d_{27}^5\bar{k}_{27}n_{1,27}-5d_{27}^5\bar{k}_{27}n_{1,27}-15{b_z}^2d_3^5\bar{k}_3n_{1,3}+5d_3^5\bar{k}_3n_{1,3}+15{b_z}^2d_7^5\bar{k}_7n_{1,7}-5d_7^5\bar{k}_7n_{1,7}+15{b_z}^2d_9^5\bar{k}_9n_{1,9}-5d_9^5\bar{k}_9n_{1,9}+10b_zd_{19}^5\bar{k}_{19}n_{3,19}-10b_zd_{21}^5\bar{k}_{21}n_{3,21}-10b_zd_{25}^5\bar{k}_{25}n_{3,25}+10b_zd_{27}^5\bar{k}_{27}n_{3,27}+10b_zd_3^5\bar{k}_3n_{3,3}+10b_zd_7^5\bar{k}_7n_{3,7}-10b_zd_9^5\bar{k}_9n_{3,9})b_y+3((5{b_z}^2-1)\bar{k}_1n_{2,1}d_1^5-d_{10}^5\bar{k}_{10}n_{2,10}+d_{12}^5\bar{k}_{12}n_{2,12}-d_{13}^5\bar{k}_{13}n_{2,13}+d_{15}^5\bar{k}_{15}n_{2,15}-d_{16}^5\bar{k}_{16}n_{2,16}+d_{18}^5\bar{k}_{18}n_{2,18}+5{b_z}^2d_{19}^5\bar{k}_{19}n_{2,19}-d_{19}^5\bar{k}_{19}n_{2,19}-5{b_z}^2d_{21}^5\bar{k}_{21}n_{2,21}+d_{21}^5\bar{k}_{21}n_{2,21}+5{b_z}^2d_{22}^5\bar{k}_{22}n_{2,22}-d_{22}^5\bar{k}_{22}n_{2,22}-5{b_z}^2d_{24}^5\bar{k}_{24}n_{2,24}+d_{24}^5\bar{k}_{24}n_{2,24}+5{b_z}^2d_{25}^5\bar{k}_{25}n_{2,25}-d_{25}^5\bar{k}_{25}n_{2,25}-5{b_z}^2d_{27}^5\bar{k}_{27}n_{2,27}+d_{27}^5\bar{k}_{27}n_{2,27}-5{b_z}^2d_3^5\bar{k}_3n_{2,3}+d_3^5\bar{k}_3n_{2,3}+5{b_z}^2d_4^5\bar{k}_4n_{2,4}-d_4^5\bar{k}_4n_{2,4}-5{b_z}^2d_6^5\bar{k}_6n_{2,6}+$

$d_6^5\bar{k}_6 n_{2,6} + 5{b_z}^2 d_7^5\bar{k}_7 n_{2,7} - d_7^5\bar{k}_7 n_{2,7} - 5{b_z}^2 d_9^5\bar{k}_9 n_{2,9} + d_9^5\bar{k}_9 n_{2,9}))$

$b_{48} = \frac{1}{120}(-5{b_y}^4 b_z d_2^5\bar{k}_2 n_{1,2} + 5{b_y}^4 b_z d_{20}^5\bar{k}_{20} n_{1,20} + 5{b_y}^4 b_z d_{26}^5\bar{k}_{26} n_{1,26} - 5{b_y}^4 b_z d_8^5\bar{k}_8 n_{1,8} + (5{b_y}^4 - 10{b_y}^2 + 1)b_z d_1^6 k_1 - d_1^5\bar{k}_1(5b_z(4b_y({b_y}^2 - 1)n_{2,1} + ({b_y}^4 - 6{b_y}^2 + 1)n_{1,1}) + (5{b_y}^4 - 10{b_y}^2 + 1)n_{3,1}) - (5{b_y}^4 - 10{b_y}^2 + 1)b_z d_{19}^6 k_{19} + d_{19}^5\bar{k}_{19}(5b_z(4b_y({b_y}^2 - 1)n_{2,19} + ({b_y}^4 - 6{b_y}^2 + 1)n_{1,19}) + (-5{b_y}^4 + 10{b_y}^2 - 1)n_{3,19}) + (5{b_y}^4 - 10{b_y}^2 + 1)b_z d_{21}^6 k_{21} + d_{21}^5\bar{k}_{21}(5b_z(({b_y}^4 - 6{b_y}^2 + 1)n_{1,21} - 4b_y({b_y}^2 - 1)n_{2,21}) + (5{b_y}^4 - 10{b_y}^2 + 1)n_{3,21}) - (5{b_y}^4 - 10{b_y}^2 + 1)b_z d_{25}^6 k_{25} + d_{25}^5\bar{k}_{25}(5b_z(({b_y}^4 - 6{b_y}^2 + 1)n_{1,25} - 4b_y({b_y}^2 - 1)n_{2,25}) + (-5{b_y}^4 + 10{b_y}^2 - 1)n_{3,25}) + (5{b_y}^4 - 10{b_y}^2 + 1)b_z d_{27}^6 k_{27} + d_{27}^5\bar{k}_{27}(5b_z(4b_y({b_y}^2 - 1)n_{2,27} + ({b_y}^4 - 6{b_y}^2 + 1)n_{1,27}) + (5{b_y}^4 - 10{b_y}^2 + 1)n_{3,27}) - (5{b_y}^4 - 10{b_y}^2 + 1)b_z d_3^6 k_3 - d_3^5\bar{k}_3(5b_z(({b_y}^4 - 6{b_y}^2 + 1)n_{1,3} - 4b_y({b_y}^2 - 1)n_{2,3}) + (-5{b_y}^4 + 10{b_y}^2 - 1)n_{3,3}) + (5{b_y}^4 - 10{b_y}^2 + 1)b_z d_7^6 k_7 - d_7^5\bar{k}_7(5b_z(({b_y}^4 - 6{b_y}^2 + 1)n_{1,7} - 4b_y({b_y}^2 - 1)n_{2,7}) + (5{b_y}^4 - 10{b_y}^2 + 1)n_{3,7}) - (5{b_y}^4 - 10{b_y}^2 + 1)b_z d_9^6 k_9 + d_9^5\bar{k}_9((5{b_y}^4 - 10{b_y}^2 + 1)n_{3,9} - 5b_z(4b_y({b_y}^2 - 1)n_{2,9} + ({b_y}^4 - 6{b_y}^2 + 1)n_{1,9})) - (5{b_y}^4 - 10{b_y}^2 + 1)d_{10}^5\bar{k}_{10} n_{3,10} + (5{b_y}^4 - 10{b_y}^2 + 1)d_{12}^5\bar{k}_{12} n_{3,12} - (5{b_y}^4 - 10{b_y}^2 + 1)d_{16}^5\bar{k}_{16} n_{3,16} + (5{b_y}^4 - 10{b_y}^2 + 1)d_{18}^5\bar{k}_{18} n_{3,18} - b_z d_{22}^6 k_{22} + d_{22}^5\bar{k}_{22}(5b_z n_{1,22} - n_{3,22}) + b_z d_{24}^6 k_{24} + d_{24}^5\bar{k}_{24}(5b_z n_{1,24} + n_{3,24}) + b_z d_4^6 k_4 - d_4^5\bar{k}_4(5b_z n_{1,4} + n_{3,4}) - b_z d_6^6 k_6 + d_6^5\bar{k}_6(n_{3,6} - 5b_z n_{1,6}) - d_{13}^5\bar{k}_{13} n_{3,13} + d_{15}^5\bar{k}_{15} n_{3,15})$

$b_{49} = \frac{1}{360}(3{b_y}^5(d_1^6 k_1 - d_1^5\bar{k}_1 n_{1,1} + d_{10}^6 k_{10} - d_{10}^5\bar{k}_{10} n_{1,10} - d_{11}^5\bar{k}_{11} n_{1,11} - d_{12}^6 k_{12} - d_{12}^5\bar{k}_{12} n_{1,12} - d_{16}^6 k_{16} + d_{16}^5\bar{k}_{16} n_{1,16} + d_{17}^5\bar{k}_{17} n_{1,17} + d_{18}^6 k_{18} + d_{18}^5\bar{k}_{18} n_{1,18} + d_{19}^6 k_{19} - d_{19}^5\bar{k}_{19} n_{1,19} - d_2^5\bar{k}_2 n_{1,2} - d_{20}^5\bar{k}_{20} n_{1,20} - d_{21}^6 k_{21} - d_{21}^5\bar{k}_{21} n_{1,21} - d_{25}^6 k_{25} + d_{25}^5\bar{k}_{25} n_{1,25} + d_{26}^5\bar{k}_{26} n_{1,26} + d_{27}^6 k_{27} + d_{27}^5\bar{k}_{27} n_{1,27} - d_3^6 k_3 - d_3^5\bar{k}_3 n_{1,3} - d_7^6 k_7 + d_7^5\bar{k}_7 n_{1,7} + d_8^5\bar{k}_8 n_{1,8} + d_9^6 k_9 + d_9^5\bar{k}_9 n_{1,9}) - 15{b_y}^4(d_1^5\bar{k}_1 n_{2,1} + d_{10}^5\bar{k}_{10} n_{2,10} - d_{12}^5\bar{k}_{12} n_{2,12} + d_{16}^5\bar{k}_{16} n_{2,16} - d_{18}^5\bar{k}_{18} n_{2,18} + d_{19}^5\bar{k}_{19} n_{2,19} - d_{21}^5\bar{k}_{21} n_{2,21} + d_{25}^5\bar{k}_{25} n_{2,25} - d_{27}^5\bar{k}_{27} n_{2,27} - d_3^5\bar{k}_3 n_{2,3} + d_7^5\bar{k}_7 n_{2,7} - d_9^5\bar{k}_9 n_{2,9}) - 10{b_y}^3(d_1^6 k_1 - 3d_1^5\bar{k}_1 n_{1,1} + d_{10}^6 k_{10} - 3d_{10}^5\bar{k}_{10} n_{1,10} - d_{12}^6 k_{12} - 3d_{12}^5\bar{k}_{12} n_{1,12} - d_{16}^6 k_{16} + 3d_{16}^5\bar{k}_{16} n_{1,16} + d_{18}^6 k_{18} + 3d_{18}^5\bar{k}_{18} n_{1,18} + d_{19}^6 k_{19} - 3d_{19}^5\bar{k}_{19} n_{1,19} - d_{21}^6 k_{21} - 3d_{21}^5\bar{k}_{21} n_{1,21} - d_{25}^6 k_{25} + 3d_{25}^5\bar{k}_{25} n_{1,25} + d_{27}^6 k_{27} + 3d_{27}^5\bar{k}_{27} n_{1,27} - d_3^6 k_3 - 3d_3^5\bar{k}_3 n_{1,3} - d_7^6 k_7 + 3d_7^5\bar{k}_7 n_{1,7} + d_9^6 k_9 + 3d_9^5\bar{k}_9 n_{1,9}) + 30{b_y}^2(d_1^5\bar{k}_1 n_{2,1} + d_{10}^5\bar{k}_{10} n_{2,10} - d_{12}^5\bar{k}_{12} n_{2,12} + d_{16}^5\bar{k}_{16} n_{2,16} - d_{18}^5\bar{k}_{18} n_{2,18} + d_{19}^5\bar{k}_{19} n_{2,19} - d_{21}^5\bar{k}_{21} n_{2,21} + d_{25}^5\bar{k}_{25} n_{2,25} - d_{27}^5\bar{k}_{27} n_{2,27} - d_3^5\bar{k}_3 n_{2,3} + d_7^5\bar{k}_7 n_{2,7} - d_9^5\bar{k}_9 n_{2,9}) + 3b_y(d_1^6 k_1 - 5d_1^5\bar{k}_1 n_{1,1} + d_{10}^6 k_{10} - 5d_{10}^5\bar{k}_{10} n_{1,10} - d_{12}^6 k_{12} - 5d_{12}^5\bar{k}_{12} n_{1,12} - d_{16}^6 k_{16} + 5d_{16}^5\bar{k}_{16} n_{1,16} + d_{18}^6 k_{18} + 5d_{18}^5\bar{k}_{18} n_{1,18} + d_{19}^6 k_{19} - 5d_{19}^5\bar{k}_{19} n_{1,19} - d_{21}^6 k_{21} - 5d_{21}^5\bar{k}_{21} n_{1,21} - d_{25}^6 k_{25} + 5d_{25}^5\bar{k}_{25} n_{1,25} + d_{27}^6 k_{27} + 5d_{27}^5\bar{k}_{27} n_{1,27} - d_3^6 k_3 - 5d_3^5\bar{k}_3 n_{1,3} - d_7^6 k_7 + 5d_7^5\bar{k}_7 n_{1,7} + d_9^6 k_9 + 5d_9^5\bar{k}_9 n_{1,9}) - 3(d_1^5\bar{k}_1 n_{2,1} + d_{10}^5\bar{k}_{10} n_{2,10} - d_{12}^5\bar{k}_{12} n_{2,12} + d_{13}^5\bar{k}_{13} n_{2,13} - d_{15}^5\bar{k}_{15} n_{2,15} + d_{16}^5\bar{k}_{16} n_{2,16} - d_{18}^5\bar{k}_{18} n_{2,18} + d_{19}^5\bar{k}_{19} n_{2,19} - d_{21}^5\bar{k}_{21} n_{2,21} + d_{22}^5\bar{k}_{22} n_{2,22} - d_{24}^5\bar{k}_{24} n_{2,24} + d_{25}^5\bar{k}_{25} n_{2,25} - d_{27}^5\bar{k}_{27} n_{2,27} - d_3^5\bar{k}_3 n_{2,3} + d_4^5\bar{k}_4 n_{2,4} - d_6^5\bar{k}_6 n_{2,6} + d_7^5\bar{k}_7 n_{2,7} - d_9^5\bar{k}_9 n_{2,9}))$