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SetDirectory["C:\\drorbn\\AcademicPensieve\\2016-03"];
<< SnG.m

dbdm[u_, v_] := Plus[
  db[1][u, dσ[2, -2][v]] // dm[2, -2, 2],
  -db[1][u, dσ[2, -2][v]] // dm[-2, 2, 2],
  -db[2][u, dσ[1, -1][v]] // dm[1, -1, 1],
  db[2][u, dσ[1, -1][v]] // dm[-1, 1, 1]
];
dbdm@@{UU[a[f[b2], 1, 1]], UU[a[1, 1, 2]]}
UU[c[-b1^2 ε4 ε9 ε44 f'[b2] + b1^2 ε4 ε10 ε44 ε48 f'[b2], 2] +
  δa[-b1 ε4 ε10 ε44 f'[b2] + b1 ε14 ε44 f'[b2], 1, 2]]

ε14 = ε4 ε10;

ε9 = ε10 ε48;

tmhts[u_] :=
  (u // tm[1, 2, 1] // hts[4, 1]) - (u // hts[4, 1] // hts[4, 2] // tm[1, 2, 1]);
tmhts@UU[δaa[f32[b1, b2, b3], 1, 4, 2, 4]]
UU[δβ[b1^2 ε3 ε8 f32[b1, b1, b3] - b1^2 ε4 ε8 ε10 f32[b1, b1, b3]]]

ε3 = ε4 ε10;

hmhts[u_] :=
  (u // hm[1, 2, 1] // hts[1, 4]) - (u // hts[2, 4] // hts[1, 4] // hm[1, 2, 1]);
hmhts@UU[δaa[f37[b4, b5], 4, 1, 4, 2]]
UU[δβ[-b4^2 ε8 ε15 f37[b4, b5] + b4^2 ε16 f37[b4, b5]]]

ε16 = ε8 ε15;

dbJacobi[u_, v_, w_] :=
  db[0][u, db[0][v, w]] + db[0][v, db[0][w, u]] + db[0][w, db[0][u, v]];
dbJacobi@@{UU[a[f2[b0, b1, b2], 0, 0]], UU[a[g4[b0, b3, b4], 0, 3]],
  UU[a[h8[b0, b5, b6], 5, 0]]}
UU[ca[-b0 ε4 ε17 ε21 f2[b0, b1, b2] g4[b0, b3, b4] h8[b0, b5, b6] +
  b0 ε17 ε22 f2[b0, b1, b2] g4[b0, b3, b4] h8[b0, b5, b6] +
  b0 ε4 ε21 ε26 f2[b0, b1, b2] g4[b0, b3, b4] h8[b0, b5, b6] - 2 b0 ε22 ε26 f2[b0, b1, b2]
  g4[b0, b3, b4] h8[b0, b5, b6] + b0 ε26 ε30 f2[b0, b1, b2] g4[b0, b3, b4] h8[b0, b5, b6] -
  b0 ε17 ε36 f2[b0, b1, b2] g4[b0, b3, b4] h8[b0, b5, b6] +
  b0 ε26 ε36 f2[b0, b1, b2] g4[b0, b3, b4] h8[b0, b5, b6] +
  b0^2 ε4 ε22 ε41 g4[b0, b3, b4] h8[b0, b5, b6] f2^(1,0,0)[b0, b1, b2] -
  b0^2 ε4 ε23 ε41 g4[b0, b3, b4] h8[b0, b5, b6] f2^(1,0,0)[b0, b1, b2] -
  b0^2 ε4 ε36 ε41 g4[b0, b3, b4] h8[b0, b5, b6] f2^(1,0,0)[b0, b1, b2] +
  b0^2 ε4 ε38 ε41 g4[b0, b3, b4] h8[b0, b5, b6] f2^(1,0,0)[b0, b1, b2] -
  b0^2 ε4 ε21 ε40 f2[b0, b1, b2] h8[b0, b5, b6] g4^(1,0,0)[b0, b3, b4] +

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$$\begin{aligned}
 & b_0^2 \epsilon_4 \epsilon_{23} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0^2 \epsilon_4 \epsilon_{38} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0^2 \epsilon_4^2 \epsilon_{21} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0^2 \epsilon_4 \epsilon_{22} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0^2 \epsilon_4 \epsilon_{23} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0^2 \epsilon_4 \epsilon_{30} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0^2 \epsilon_4 \epsilon_{38} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4], 3, 5, 0] + \\
 ca [ & b_5 \epsilon_4 \epsilon_{17} \epsilon_{21} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] - \\
 & b_5 \epsilon_{17} \epsilon_{22} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] - \\
 & b_5 \epsilon_4 \epsilon_{21} \epsilon_{26} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] + \\
 & 2 b_5 \epsilon_{22} \epsilon_{26} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] - \\
 & b_5 \epsilon_{26} \epsilon_{30} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] + \\
 & b_5 \epsilon_{17} \epsilon_{36} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] - \\
 & b_5 \epsilon_{26} \epsilon_{36} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] - \frac{1}{\epsilon_{44}} \\
 & b_5 \epsilon_{17} \epsilon_{26} \epsilon_{27} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] + \\
 & \frac{b_5 \epsilon_{26}^2 \epsilon_{27} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6]}{\epsilon_{44}} - \\
 & b_0 b_5 \epsilon_4 \epsilon_{22} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] + \\
 & b_0 b_5 \epsilon_4 \epsilon_{23} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] + \\
 & b_0 b_5 \epsilon_4 \epsilon_{36} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] - \\
 & b_0 b_5 \epsilon_4 \epsilon_{38} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] - \frac{1}{\epsilon_{44}} \\
 & b_0 b_5 \epsilon_4 \epsilon_{26} \epsilon_{27} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] + \\
 & b_0 b_5 \epsilon_4^2 \epsilon_{29} \epsilon_{44} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] + \\
 & b_0 b_5 \epsilon_4^2 \epsilon_{21} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 b_5 \epsilon_4 \epsilon_{23} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0 b_5 \epsilon_4 \epsilon_{38} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 b_5 \epsilon_4^2 \epsilon_{21} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0 b_5 \epsilon_4 \epsilon_{22} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0 b_5 \epsilon_4 \epsilon_{23} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 b_5 \epsilon_4 \epsilon_{30} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 b_5 \epsilon_4 \epsilon_{38} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0 b_5 \epsilon_4^2 \epsilon_{29} \epsilon_{42} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \\
 & b_0 b_5 \epsilon_4^2 \epsilon_{29} \epsilon_{44} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6], 3, 0, 0] + \\
 ca [ & b_0 \epsilon_4 \epsilon_{17} \epsilon_{21} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] + \\
 & b_0 \epsilon_4 \epsilon_{26} \epsilon_{27} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] - \\
 & b_0 \epsilon_4 \epsilon_{26} \epsilon_{29} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] + \\
 & b_0 \epsilon_{17} \epsilon_{36} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] - \\
 & b_0 \epsilon_{26} \epsilon_{36} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] - \frac{1}{\epsilon_{44}} \\
 & b_0 \epsilon_4 \epsilon_{26} \epsilon_{27} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] + \\
 & b_0^2 \epsilon_4 \epsilon_{23} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] -
 \end{aligned}$$

$$\begin{aligned}
 & b_0^2 \epsilon_4 \epsilon_{38} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] + \\
 & b_0^2 \epsilon_4 \epsilon_{26} \epsilon_{27} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0^2 \epsilon_4^2 \epsilon_{21} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0^2 \epsilon_4 \epsilon_{23} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0^2 \epsilon_4 \epsilon_{36} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0^2 \epsilon_4 \epsilon_{38} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \frac{1}{\epsilon_{44}} \\
 & b_0^2 \epsilon_4 \epsilon_{26} \epsilon_{27} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0^2 \epsilon_4 \epsilon_{23} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0^2 \epsilon_4^2 \epsilon_{29} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0^2 \epsilon_4 \epsilon_{36} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0^2 \epsilon_4 \epsilon_{38} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0^2 \epsilon_4 \epsilon_{26} \epsilon_{27} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \\
 & b_0^2 \epsilon_4^2 \epsilon_{21} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \\
 & b_0^2 \epsilon_4^2 \epsilon_{29} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \\
 & b_0^2 \epsilon_4^2 \epsilon_{29} \epsilon_{42} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \\
 & b_0^2 \epsilon_4 \epsilon_{30} \epsilon_{42} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \frac{1}{\epsilon_{44}} \\
 & b_0^2 \epsilon_4 \epsilon_{26} \epsilon_{27} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \\
 & b_0^2 \epsilon_4^2 \epsilon_{29} \epsilon_{44} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \\
 & b_0^2 \epsilon_4 \epsilon_{30} \epsilon_{44} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6], 0, 5, 3] + \\
 & ca [-b_5 \epsilon_{17} \epsilon_{36} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] + \\
 & b_5 \epsilon_{26} \epsilon_{36} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] + \frac{1}{\epsilon_{44}} \\
 & b_5 \epsilon_{17} \epsilon_{26} \epsilon_{27} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] - \\
 & \frac{b_5 \epsilon_{26}^2 \epsilon_{27} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6]}{\epsilon_{44}} - \\
 & b_0 b_5 \epsilon_4 \epsilon_{23} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] + \\
 & b_0 b_5 \epsilon_4 \epsilon_{38} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] - \\
 & b_0 b_5 \epsilon_4 \epsilon_{26} \epsilon_{27} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0 b_5 \epsilon_4 \epsilon_{23} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 b_5 \epsilon_4 \epsilon_{36} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 b_5 \epsilon_4 \epsilon_{38} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \frac{1}{\epsilon_{44}} \\
 & b_0 b_5 \epsilon_4 \epsilon_{26} \epsilon_{27} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 b_5 \epsilon_4 \epsilon_{23} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0 b_5 \epsilon_4 \epsilon_{36} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0 b_5 \epsilon_4 \epsilon_{38} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 b_5 \epsilon_4 \epsilon_{26} \epsilon_{27} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \\
 & b_0 b_5 \epsilon_4^2 \epsilon_{21} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \\
 & b_0 b_5 \epsilon_4^2 \epsilon_{29} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \\
 & b_0 b_5 \epsilon_4^2 \epsilon_{29} \epsilon_{42} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \\
 & b_0 b_5 \epsilon_4 \epsilon_{30} \epsilon_{42} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \frac{1}{\epsilon_{44}}
 \end{aligned}$$

$$\begin{aligned}
 & b_0 b_5 \epsilon_4 \epsilon_{26} \epsilon_{27} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \\
 & b_0 b_5 \epsilon_4^2 \epsilon_{29} \epsilon_{44} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \\
 & b_0 b_5 \epsilon_4 \epsilon_{30} \epsilon_{44} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6], 0, 0, 3] + \\
 \delta_{aa} & [-\epsilon_{17} \epsilon_{21} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] - \epsilon_{26} \epsilon_{27} f_2 [b_0, b_1, b_2] \\
 & g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] + \epsilon_{26} \epsilon_{29} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] + \\
 & \underline{\epsilon_{26} \epsilon_{27} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6]} - \\
 & \qquad \qquad \qquad \epsilon_{44} \\
 & b_0 \epsilon_{23} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] + \\
 & b_0 \epsilon_{37} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] + \\
 & b_0 \epsilon_{38} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] - \\
 & b_0 \epsilon_{33} \epsilon_{44} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] - \\
 & b_0 \epsilon_{26} \epsilon_{27} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 \epsilon_4 \epsilon_{21} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0 \epsilon_{23} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 \epsilon_{37} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 \epsilon_{38} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \frac{1}{\epsilon_{44}} \\
 & b_0 \epsilon_{26} \epsilon_{27} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 \epsilon_{23} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0 \epsilon_4 \epsilon_{29} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0 \epsilon_{37} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_0 \epsilon_{38} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_0 \epsilon_{26} \epsilon_{27} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \\
 & b_0 \epsilon_4 \epsilon_{21} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \\
 & b_0 \epsilon_4 \epsilon_{29} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \\
 & b_0 \epsilon_4 \epsilon_{29} \epsilon_{42} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \\
 & b_0 \epsilon_{33} \epsilon_{42} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \frac{1}{\epsilon_{44}} \\
 & b_0 \epsilon_{26} \epsilon_{27} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \\
 & b_0 \epsilon_4 \epsilon_{29} \epsilon_{44} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \\
 & b_0 \epsilon_{33} \epsilon_{44} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6], 0, 0, 5, 3] + \\
 \delta_{aa} & [b_5 \epsilon_{23} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] - \\
 & b_5 \epsilon_{37} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] - \\
 & b_5 \epsilon_{38} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] + \frac{1}{\epsilon_{44}} \\
 & b_5 \epsilon_{26} \epsilon_{27} \epsilon_{41} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] - \\
 & b_5 \epsilon_4 \epsilon_{29} \epsilon_{44} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] + \\
 & b_5 \epsilon_{33} \epsilon_{44} g_4 [b_0, b_3, b_4] h_8 [b_0, b_5, b_6] f_2^{(1,0,0)} [b_0, b_1, b_2] + \\
 & b_5 \epsilon_{26} \epsilon_{27} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_5 \epsilon_{23} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_5 \epsilon_{37} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_5 \epsilon_{38} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \frac{1}{\epsilon_{44}} \\
 & b_5 \epsilon_{26} \epsilon_{27} \epsilon_{40} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] +
 \end{aligned}$$

$$\begin{aligned}
 & b_5 \epsilon_{23} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_5 \epsilon_{37} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] - \\
 & b_5 \epsilon_{38} \epsilon_{44} f_2 [b_0, b_1, b_2] h_8 [b_0, b_5, b_6] g_4^{(1,0,0)} [b_0, b_3, b_4] + \\
 & b_5 \epsilon_{26} \epsilon_{27} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \\
 & b_5 \epsilon_4 \epsilon_{21} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \\
 & b_5 \epsilon_4 \epsilon_{29} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] + \\
 & b_5 \epsilon_{33} \epsilon_{42} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \frac{1}{\epsilon_{44}} \\
 & b_5 \epsilon_{26} \epsilon_{27} \epsilon_{40} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6] - \\
 & b_5 \epsilon_{33} \epsilon_{44} f_2 [b_0, b_1, b_2] g_4 [b_0, b_3, b_4] h_8^{(1,0,0)} [b_0, b_5, b_6], 0, 0, 0, 3 ] ]
 \end{aligned}$$

$$\epsilon_{18} = \epsilon_{25};$$

$$\epsilon_{13} = \epsilon_{12} \epsilon_{26} \epsilon_{27} \epsilon_{48} / \epsilon_{25}^2;$$

$$\epsilon_{31} = \epsilon_{27} \epsilon_{45} / \epsilon_{44};$$

$$\epsilon_{45} = \epsilon_{12} \epsilon_{26} \epsilon_{27} \epsilon_{48} / \epsilon_{25};$$

$$\epsilon_{25} = \frac{\epsilon_{26} \epsilon_{27}}{\epsilon_{44}};$$

$$\epsilon_{28} = \epsilon_{35} \epsilon_{44} \epsilon_{48} / \epsilon_{26};$$

$$\epsilon_{47} = \epsilon_4 \epsilon_{12} \epsilon_{44};$$

$$\epsilon_{46} = \epsilon_4 \epsilon_{12} \epsilon_{44};$$

$$\epsilon_{48} = \epsilon_4;$$