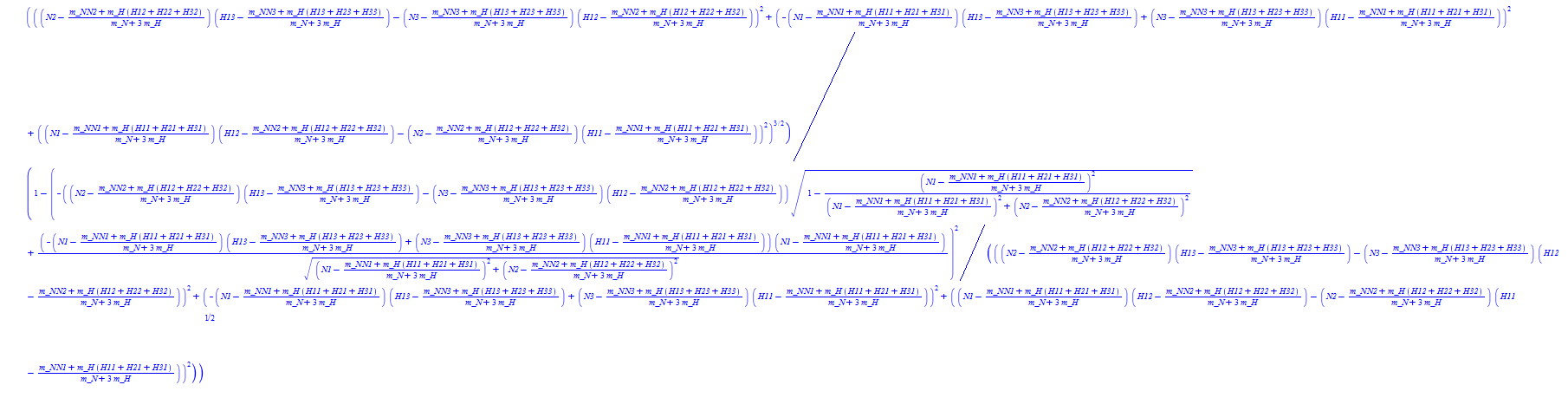
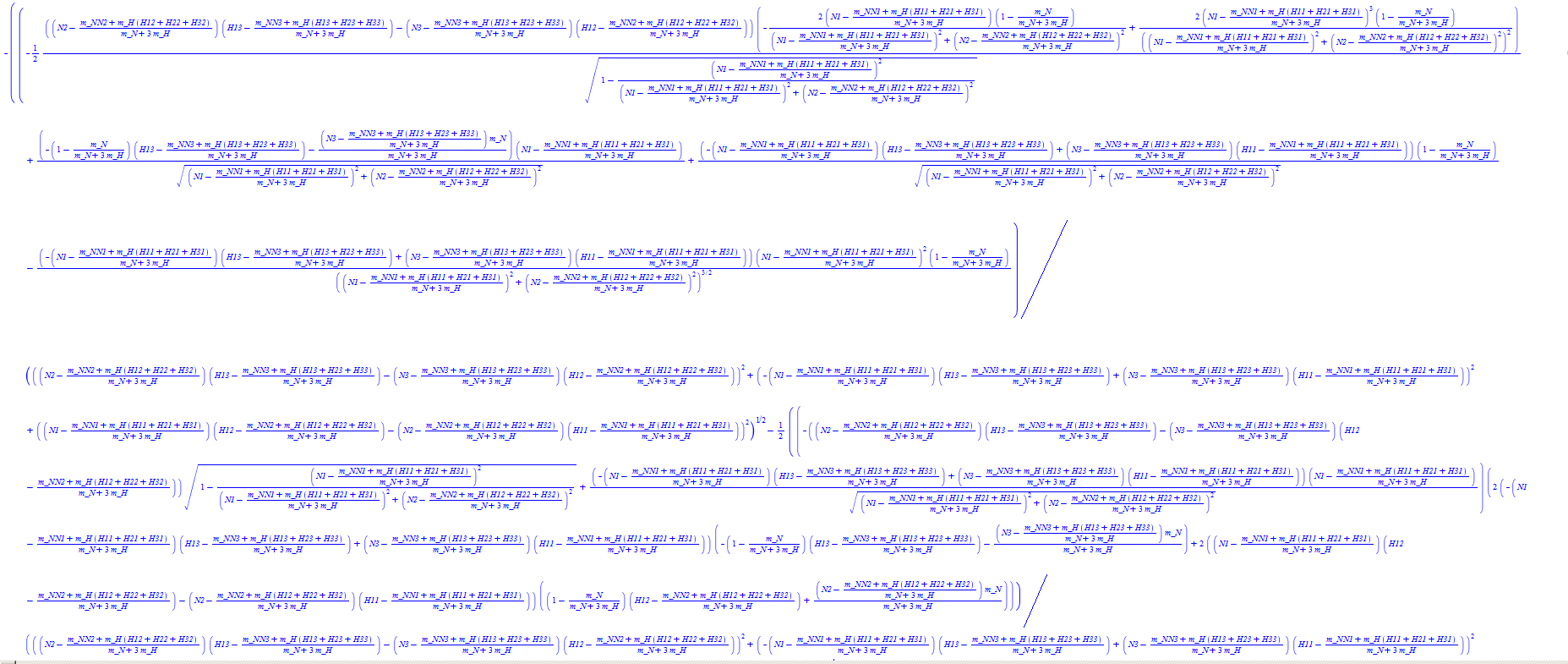
Derive g wrt N1



Derive g wrt N2

t38 = H12 - t28;

t40 = t29 \* t11 - t13 \* t38;

t44 = t31 \* t31;

t50 = H11 - t21;

t52 = -t22 \* t11 + t13 \* t50;

t53 = t52 \* t22;

t54 = sqrt((double) t31);

t61 = t40 \* t40;

t62 = t52 \* t52;

t65 = t22 \* t38 - t29 \* t50;

t66 = t65 \* t65;

t67 = t61 + t62 + t66;

t68 = sqrt((double) t67);

t74 = -(double) t40 \* t35 + (double) t53 / t54;

t88 = t74 \* t74;

t3 = 1 / (m\_N + 3 \* m\_H);

t5 = -t3 \* m\_N + 1;

t10 = t3 \* (m\_N \* N3 + m\_H \* (H13 + H23 + H33));

t11 = H13 - t10;

t13 = N3 - t10;

t16 = t3 \* t13 \* m\_N + t5 \* t11;

t21 = t3 \* (m\_N \* N1 + m\_H \* (H11 + H21 + H31));

t22 = N1 - t21;

t23 = t22 \* t22;

t28 = t3 \* (m\_N \* N2 + m\_H \* (H12 + H22 + H32));

t29 = N2 - t28;

t30 = t29 \* t29;

t31 = t23 + t30;

t35 = sqrt((double) (1 - t23 / t31));

t92 = sqrt(0.1e1 - t88 / (double) t67);

t95 = -((-(double) t16 \* t35 - (double) t40 / t35 \* (double) t23 / (double) t44 \* (double) t29 \* (double) t5 - (double) t53 / t54 / (double) t31 \* (double) t29 \* (double) t5) / t68 - t74 / t68 / (double) t67 \* (double) (t40 \* t16 + t65 \* (-t22 \* t3 \* m\_N - t5 \* t50))) / t92;

Derive g wrt N3

t38 = 0.1e1 / t37;

t45 = t3 \* (m\_N \* N3 + m\_H \* (H13 + H23 + H33));

t46 = H13 - t45;

t48 = N3 - t45;

t50 = -t48 \* t14 + t9 \* t46;

t51 = t50 \* t50;

t54 = -t22 \* t46 + t48 \* t33;

t55 = t54 \* t54;

t59 = (int) pow((double) (t22 \* t14 - t9 \* t33), (double) 2);

t60 = t51 + t55 + t59;

t61 = sqrt((double) t60);

t67 = (double) t54 \* (double) t22 \* t38 - t29 \* (double) t50;

t77 = t67 \* t67;

t81 = sqrt(0.1e1 - t77 / (double) t60);

t3 = 1 / (m\_N + 3 \* m\_H);

t8 = t3 \* (m\_N \* N2 + m\_H \* (H12 + H22 + H32));

t9 = N2 - t8;

t13 = -t3 \* m\_N + 1;

t14 = H12 - t8;

t16 = -t9 \* t3 \* m\_N - t13 \* t14;

t21 = t3 \* (m\_N \* N1 + m\_H \* (H11 + H21 + H31));

t22 = N1 - t21;

t23 = t22 \* t22;

t24 = t9 \* t9;

t25 = t23 + t24;

t29 = sqrt((double) (1 - t23 / t25));

t33 = H11 - t21;

t35 = t22 \* t3 \* m\_N + t13 \* t33;

t37 = sqrt((double) t25);

t84 = -(((double) t35 \* (double) t22 \* t38 - (double) t16 \* t29) / t61 - t67 / t61 / (double) t60 \* (double) (t50 \* t16 + t54 \* t35)) / t81;