

```

GG[g_GD, k_, F_, BB_] :=
Module[{n = 2 Length@g + Length@BB, y, cuts, rr,  $\gamma$ 0,  $\gamma$ },
   $\gamma$ 0 = G[tn+1 hn+1] Times @@ g /. {Ap → Rp, Am → Rm};
   $\gamma$ 0 *= G[Sum[ $\beta$ a,b ta hb, {a, BB}, {b, BB}]];
  Sum[ $\gamma$  =  $\gamma$ 0;
    cuts = Cases[y, _Integer,  $\infty$ ]  $\cup$  {n + 1};
    rr = Thread[cuts → Range[Length@cuts]];
    Do[If[! MemberQ[cuts, j],  $\gamma$  =  $\gamma$  // mj,j+1→j+1], {j, n}]];
    F[y /. rr,  $\gamma$  /. (v_)a  $\Rightarrow$  va/.rr],
    (*over*) {y, Subsets[List @@ g, k]}]]];
GG[g_GD, k_, F_] := GG[g, k, F, {}];

```