```
B[a[f_, j_, k_], β[g_]] := γ[f (∂b_j g - ∂b_k g), j, k] // LSimp;

B[a[j_, k_], a[j_, l_]] /; DQ[j, k, l] := γ[1, j, k, l] // LSimp;
B[a[j_, k_], a[i_, k_]] /; DQ[i, j, k] :=
  a[b_i, j, k] - a[b_j, i, k] // LSimp;
B[a[j_, k_], a[i_, j_]] /; DQ[i, j, k] :=
  a[b_j, i, k] - a[b_i, j, k] + γ[1, i, j, k] // LSimp;
B[a[j_, k_], a[k_, l_]] /; DQ[j, k, l] := -B[a[k, l], a[j, k]];
B[a[j_, k_], a[l_, m_]] /; DQ[j, k, l, m] := 0;


B[a[f_, j_, k_], γ[g_, j_, l_]] /; DQ[j, k, l] := 0;
B[a[f_, j_, k_], γ[g_, i_, k_]] /; DQ[i, j, k] :=
  - γ[b_j f g, i, k] // LSimp;
B[a[f_, j_, k_], γ[g_, i_, j_]] /; DQ[i, j, k] := γ[b_j f g, i, k] // LSimp;
B[a[f_, j_, k_], γ[g_, k_, l_]] /; DQ[j, k, l] :=
  γ[b_j f g, k, l] - γ[b_k f g, j, l] // LSimp;
B[a[f_, j_, k_], γ[g_, l_, m_]] /; DQ[j, k, l, m] := 0;
B[a[f_, j_, k_], γ[g_, j_, k_]] := γ[-b_j f g, j, k] // LSimp;


B[a[f_, j_, k_], γ[g_, j_, l_, m_]] /; DQ[j, k, l, m] := 0;
B[a[f_, j_, k_], γ[g_, i_, j_, l_]] /; DQ[i, j, k, l] :=
  γ[b_j f g, i, k, l] + γa[f g, i, l, j, k] // LSimp;
B[a[f_, l_, k_], γ[g_, i_, j_, l_]] /; DQ[i, j, k, l] :=
  γ[-b_l f g, i, k, j] + γa[-f g, i, j, l, k] // LSimp;
B[a[f_, j_, k_], γ[g_, k_, l_, m_]] /; DQ[j, k, l, m] :=
  γ[-b_k f g, j, l, m] + γ[b_j f g, k, l, m] // LSimp;
B[a[f_, j_, k_], γ[g_, n_, i_, k_]] /; DQ[n, i, j, k] :=
  γ[-b_j f g, n, i, k] + γa[f g, n, i, j, k] // LSimp;
B[a[f_, j_, i_], γ[g_, n_, i_, k_]] /; DQ[n, i, j, k] :=
  γ[b_j f g, n, k, i] + γa[-f g, n, k, j, i] // LSimp;
B[a[f_, j_, k_], γ[g_, j_, k_, l_]] /; DQ[j, k, l] :=
  γa[-f g, j, k, j, l] // LSimp;
B[a[f_, j_, l_], γ[g_, j_, k_, l_]] /; DQ[j, k, l] :=
  γa[f g, j, l, j, k] // LSimp;
B[a[f_, j_, k_], γ[g_, i_, j_, k_]] /; DQ[i, j, k] :=
  γ[-b_j f g, i, j, k] + γa[f g, i, j, j, k] + γa[f g, i, k, j, k] // LSimp;
B[a[f_, k_, j_], γ[g_, i_, j_, k_]] /; DQ[i, j, k] :=
  γ[b_k f g, i, k, j] + γa[-f g, i, k, k, j] + γa[-f g, i, j, k, j] // LSimp;
B[a[f_, i_, j_], γ[g_, k_, l_, m_]] /; DQ[i, j, k, l, m] := 0;
```