```
Γ@𝒜[is_, os_, cs_, w_] := Module[{i, j, ω = Coefficient[w, Wedge[]]},
  Γ[is, os, cs, ω, Sum[Cancel[-Coefficient[w, xj ∧ ξi] ξi xj / ω],
    {i, is}, {j, os}]]
 ];
𝒜@Γ[is_, os_, cs_, w_, λ_] :=
  𝒜[is, os, cs, Expand[ω WExp[Expand[λ] /. ξa_ xb_ :> ξa ∧ xb]]];
```