

```
Simplify[R1[1, i, i^+] + (gi^+,i^+ - 1/2) //. {(* R1n *)
giβ_ :> δiβ + T gi^+,β + (1 - T) gi++,β, gi^+,β_ :> δi^+,β + gi^++,β,
gα_,i :> T-1 (gα,i^+ - δα,i^+), gα_,i^+ :> T gα,i^++ - (1 - T) δα,i^++] ]
```