```
Λ = -ℏ ηᵢ ξⱼ cₖ + (ξᵢ + ξⱼ) xₖ + (ηᵢ + ηⱼ) yₖ;
Simplify@With[{𝔼 = MatrixExp},
  𝔼[x̂ ξᵢ].𝔼[ŷ ηᵢ].𝔼[x̂ ξⱼ].𝔼[ŷ ηⱼ] ==
   𝔼[x̂ ∂ₓₖΛ].𝔼[ŷ ∂ᵧₖΛ].𝔼[ĉ ∂_cₖΛ]]
```