

$SS_{\epsilon}[\mathcal{E}_-] :=$

Block[{ ϵ }, Collect[Normal@Series[\mathcal{E} , { ϵ , 0, \$T ϵ D}],
 ϵ , Together]]; (* Shielded ϵ -Series *)

$C\Delta[t1_, y1_, a1_, x1_, \xi1_, \eta1_, \delta_-] :=$ Module[

{ eqn , d , b , c , sol , λ , q , v , ξ , η },

$eqn = \rho[e^{\xi x_{cu}}] \cdot \rho[e^{\eta y_{cu}}] ==$

$\rho[e^{d y_{cu}}] \cdot \rho[e^{c(t_{cu} - 2\epsilon a_{cu})}] \cdot \rho[e^{b x_{cu}}];$

$sol =$ Solve[Thread[Flatten /@ eqn], { d , b , c }] [[1]] /.
 $C[1] \rightarrow 0$;

$\lambda =$ Simplify[$e^{-\eta y - \xi x + \eta \xi t} SS_{\epsilon}[e^{c t + d y - 2\epsilon c a + b x} /. sol]$];

$q = e^{v(-t \xi \eta + \eta y + \xi x + \delta y x)}$;

Collect[$v q^{-1} DP_{\xi \rightarrow D_x, \eta \rightarrow D_y}[\lambda][q] /. v \rightarrow (1 + t \delta)^{-1}$,

ϵ , Simplify] /. { $t \rightarrow t1$, $y \rightarrow y1$, $a \rightarrow a1$, $x \rightarrow x1$,

$\xi \rightarrow \xi1$, $\eta \rightarrow \eta1$ }

];