

Accounting for time lost

December 25, 2016 8:00 AM

$DP_{x \rightarrow D_\alpha, y \rightarrow D_\beta} [P_] [f_] :=$ Differential Polynomials
 $Total[CoefficientRules[P, \{x, y\}] /. (Implementing P(\partial_\alpha, \partial_\beta)(f))$
 $(\{m_, n_\} \rightarrow c_) \Rightarrow c D[f, \{\alpha, m\}, \{\beta, n\}]]$

$S_{f_i, e_j \rightarrow k} [\mathbb{E}[\omega, L, Q, P]] :=$ *fe Sorts*
 $With[\{q = ((1 - t) \alpha \beta + \beta e_k + \alpha f_k + \delta e_k f_k) / \mu\}, CF[$
 $\mathbb{E}[\mu \omega, L, \mu \omega q + \mu (Q /. f_i \rightarrow \theta),$
 $\mu^4 e^{-q} DP_{f_i \rightarrow D_\alpha, e_j \rightarrow D_\beta} [P] [e^q] + \omega^4 \Lambda[k]] /. \mu \rightarrow 1 + (t - 1) \delta /.$
 $\{\alpha \rightarrow \omega^{-1} (\partial_{f_i} Q /. e_j \rightarrow \theta), \beta \rightarrow \omega^{-1} (\partial_{e_j} Q /. f_i \rightarrow \theta),$
 $\delta \rightarrow \omega^{-1} \partial_{f_i, e_j} Q\}]]];$