

QZip $_{\zeta^s_List}$ @ \mathbb{E} [L _, Q _, P _] :=

Module [{ ζ , z , zs , c , ys , ηs , qt , $zrule$, $Q1$, $Q2$ },

zs = **Table** [ζ^* , { ζ , ζ^s }];

c = Q /. **Alternatives** @@ ($\zeta^s \cup zs$) $\rightarrow \emptyset$;

ys = **Table** [∂_{ζ} (Q /. **Alternatives** @@ $zs \rightarrow \emptyset$), { ζ , ζ^s }];

ηs = **Table** [∂_z (Q /. **Alternatives** @@ $\zeta^s \rightarrow \emptyset$), { z , zs }];

qt = **Inverse**@**Table** [$K\delta_{z,\zeta^*} - \partial_{z,\zeta}Q$, { ζ , ζ^s }, { z , zs }];

$zrule$ = **Thread** [$zs \rightarrow qt \cdot (zs + ys)$];

$Q2$ = ($Q1 = c + \eta s \cdot zs$ /. $zrule$) /. **Alternatives** @@ $zs \rightarrow \emptyset$;

CF /@ \mathbb{E} [L , $Q2$, **Det** [qt] e^{-Q2} **Zip** $_{\zeta^s}$ [e^{Q1} (P /. $zrule$)]]];