

```

$QZipFail = False;
QZip $\zeta_s$ _List@ $\mathbb{E}$ [ $L$ _,  $Q$ _,  $P$ _] :=
  PP $_{QZip}$ @Module[ $\{\zeta, z, zs, c, ys, \eta s, qt, zrule, \zeta rule, out\}$ ,
     $zs = Table[\zeta^*, \{\zeta, \zeta s\}]$ ;
     $c = CF[Q /. Alternatives @@ (\zeta s \cup zs) \rightarrow \emptyset]$ ;
     $ys = CF@Table[\partial_{\zeta}(Q /. Alternatives @@ zs \rightarrow \emptyset)$ ,
       $\{\zeta, \zeta s\}]$ ;
     $\eta s = CF@Table[\partial_z(Q /. Alternatives @@ \zeta s \rightarrow \emptyset)$ ,  $\{z, zs\}]$ ;
     $qt = CF@Inverse@Table[K $\delta_{z, \zeta^*} - \partial_{z, \zeta} Q$ ,  $\{\zeta, \zeta s\}$ ,  $\{z, zs\}]$ ;
     $zrule = Thread[zs \rightarrow CF[qt.(zs + ys)]]$ ;
     $\zeta rule = Thread[\zeta s \rightarrow \zeta s + \eta s.qt]$ ;
    out =
      CF /@  $\mathbb{E}[L, c + \eta s.qt.ys,$ 
        Det[qt] Zip $\zeta_s[P /. (zrule \cup \zeta rule)]$ ];
  If[
     $\neg$  ( $\$QZipFail \vee$ 
      TrueQ[ $out \equiv \mathbb{E}3@QZip_{\zeta s}@\mathbb{E}4@\mathbb{E}[L, Q, P]$ ]),
     $\$QZipFail = True$ ;
    Print["QZip4 fail at {L,Q,P}=",  $\{L, Q, P\}$ ]
  ];
  out
];$ 
```