```
(* 𝔼[Q,P] means e^Q P *)
𝔼 /: Zip_{𝓢s_List}@𝔼[Q_, P_] :=
  Module[{𝓢, z, zs, c, ys, ηs, qt, zrule, Q1, Q2},
   zs = Table[𝓢*, {𝓢, 𝓢s}];
   c = Q /. Alternatives @@ (𝓢s ⋃ zs) → 0;
   ys = Table[∂_𝓢 (Q /. Alternatives @@ zs → 0), {𝓢, 𝓢s}];
   ηs = Table[∂_z (Q /. Alternatives @@ 𝓢s → 0), {z, zs}];
   qt = Inverse@Table[Kδ_{z,𝓢*} - ∂_{z,𝓢}Q, {𝓢, 𝓢s}, {z, zs}];
   zrule = Thread[zs → qt.(zs + ys)];
   Q1 = c + ηs.zs /. zrule;
   Q2 = Q1 /. Alternatives @@ zs → 0;
   Simplify /@ 𝔼[Q2, Det[qt] e^{-Q2} Zip_{𝓢s}[e^{Q1} (P /. zrule)]] ];
```