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Cordoni@ $\Sigma_B$ [{li___, i_, ri___}, bs___] [ $\sigma$ _, PQ[C_, q_]] :=
Module [ {  $\phi = \partial_{\gamma_i} C$ ,  $\lambda = \partial_{\bar{\gamma}_i, \gamma_i} q$ ,  $n\sigma = \sigma$ , nC, nq, p },
  { p } = FirstPosition [ (# != 0) & /@  $\phi$ , True, {0} ];
  { nC, nq } = Which [
    p > 0, { C, q } /. ( $\gamma_i \rightarrow -C[[p]] / \phi[[p]]$ )+ /. ( $\gamma_i \rightarrow \theta$ )+,
     $\lambda \neq 0$ , ( $n\sigma += \text{sign}[\lambda]$ );
    { C, q /. ( $\gamma_i \rightarrow -(\partial_{\bar{\gamma}_i} q) / \lambda$ )+ /. ( $\gamma_i \rightarrow \theta$ )+ } ),
     $\lambda == 0$ , { C  $\cup$  {  $\partial_{\bar{\gamma}_i} q$  }, q /. ( $\gamma_i \rightarrow \theta$ )+ } ];
CF@ $\Sigma_B$ [Most@{ri, li}, bs] [n $\sigma$ ,
  PQ[nC, nq] /. ( $\gamma_{\text{Last}@\{ri, li\}} \rightarrow \gamma_{\text{First}@\{ri, li\}}$ )+] ]

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