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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} /. ( $\gamma_i \rightarrow -C[[p]] / \phi[[p]]$ )+ /. ( $\gamma_i \rightarrow 0$ )+,
     $\lambda$  !== 0, ( $n\sigma += \text{sign}[\lambda]$ );
    {C, q /. ( $\gamma_i \rightarrow -(\partial_{\bar{\gamma}_i} q) / \lambda$ )+ /. ( $\gamma_i \rightarrow 0$ )+},
     $\lambda$  === 0, {C ∪ { $\partial_{\bar{\gamma}_i} q$ }, q /. ( $\gamma_i \rightarrow 0$ )+}];
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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