$$\left\{ \frac{1}{9} \phi_{b_{\parallel}}, \frac{2}{9} \phi_{\mathcal{A}|mn} \right\} \approx \left\{ \frac{3 \eta^{\parallel}_{mn} \frac{1}{9} \hat{\pi}_{\mathcal{A}|\parallel}}{8 \mathcal{J}^{2}} - \frac{3 \eta^{\parallel}_{ln} \frac{1}{9} \hat{\pi}_{\mathcal{A}|m}}{8 \mathcal{J}^{2}} + \frac{\eta^{\parallel}_{ln} \frac{1}{9} \hat{\pi}_{\mathcal{A}|m}}{4 \mathcal{J}^{2}} + \frac{\eta^{\parallel}_{ln} \frac{1}{9} \hat{\pi}_{\mathcal{A}|m}}{4 \mathcal{J}^{2}} - \frac{\eta^{\parallel}_{ll} \frac{1}{9} \hat{\pi}_{\mathcal{A}|mn}}{4 \mathcal{J}^{2}}, 0, 0 \right\}$$