$$\chi \Pi \Theta' = - \mathcal{M}_b(\Theta - \langle\Theta\rangle_1) - \frac{\mathcal{M}_b F_1 + \mathcal{M}_1 (\eta\Pi - \mathcal{F}_b)}{\eta\Pi} (\langle\Theta\rangle_1 - \langle\Theta\rangle_2)$$

$$+ \frac{\chi}{\eta}\mathcal{F}_b (\Theta - \Theta_1) - \frac{\chi}{\eta}\mathcal{F}_1 \left( \Theta - \Theta_1 - \frac{\Theta_1 - \Theta_2}{\varkappa_2} \right)$$

$$- \frac{\mathcal{M}_b\mathcal{F}_r + (\eta\Pi - F_b)\mathcal{M}_r}{\eta\Pi}\Gamma_\Theta - \frac{\chi}{\eta}\mathcal{F}_r\Gamma'_\Theta + W,$$

$$\chi \Pi \Phi' = - \mathcal{M}_b (\Phi - \langle\Phi\rangle_1) - \frac{\mathcal{M}_b F_1 + \mathcal{M}_1 (\eta\Pi - F_b)}{\eta\Pi} (\langle\Phi\rangle_1 - \langle\Phi\rangle_2)$$

$$+ \frac{\chi}{\eta}\mathcal{F}_b (\Phi - \Phi_1) - \frac{\chi}{\eta}\mathcal{F}_1 \left( \Phi - \Phi_1 - \frac{\Phi_1 - \Phi_2}{\varkappa_2} \right)$$

$$+ \left( \frac{\chi}{\eta}\frac{\mathcal{F}_r\Theta'\cos\Theta}{(\sin\Theta)^2} - \frac{\mathcal{M}_b\mathcal{F}_r + \mathcal{M}_r (\eta\Pi - \mathcal{F}_b)}{\eta\Pi\sin\Theta} \right)\Gamma_\Phi - \frac{\chi}{\eta}\frac{\mathcal{F}_r}{\sin\Theta}\Gamma'_\Phi$$