## magnetic line bending: stabilizing

$$\delta W = \pi \int \int d\psi d\chi \left\{ \frac{JB^2}{R^2 B_p^2} \left| k_{\parallel} X \right|^2 + \frac{R^2 B_p^2}{JB^2} \left| \frac{1}{n} \frac{\partial}{\partial \psi} \left( JB k_{\parallel} X \right) \right|^2 \right\}$$

ballooning drive

$$- rac{2J}{B^2} rac{dp}{d\psi}$$

$$\left[|X|^2 \frac{\partial}{\partial \psi} \left(p + \frac{B^2}{2}\right) - \frac{iF}{JB^2} \frac{\partial}{\partial \chi} \left(\frac{B^2}{2}\right) \frac{X^*}{n} \frac{\partial X}{\partial \psi}\right]$$

kink drive

$$-\frac{X^*}{n}JBk_{\parallel}\left(X\frac{d\sigma}{d\sigma}\right)+\frac{1}{n}\left[PJBk_{\parallel}^*Q^*+P^*JBk_{\parallel}Q\right]$$

$$+ \left| \frac{\partial}{\partial \psi} \left[ \frac{\sigma}{n} X^* J B k_{\parallel} X \right] \right|$$

magnetic curvature: stabilizing inboard, destabilizing outboard

surface term: peeling drive