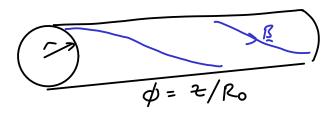
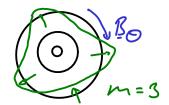
Flux surface perturbations

Contents

- Response of plasma to flux surface movement
- Cylindrical tearing mode equation
- Resonant surfaces

invese aspect ratio





$$B_{r} = \frac{1}{r} \frac{\partial r}{\partial \sigma}$$

$$B_{\theta} = \frac{\partial r}{\partial r}$$

$$8\psi(r,0,\phi) = 8\hat{\psi}(r)e^{i(mo-n\phi)}$$

Show instablish =)
$$\int x \left(\frac{1}{8} \cdot \frac{1}{8} \right) = 0$$

Late and

 $\Delta x \left(\frac{1}{8} \times \frac{1}{8} \right) = 0$
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$$\begin{bmatrix}
B_0 & \frac{in}{r} - B_0 & \frac{in}{R_0}
\end{bmatrix} SJ_0 = \frac{in}{r} St \frac{dJ_0}{dV}$$

$$9 = \frac{B_0 \Gamma}{B_0 R_0} Safets fock$$

$$B_0 \left[1 - 9 \frac{in}{r}\right] SJ_0 = \frac{M}{r} St \frac{dJ_0}{dV}$$

$$SJ_{\phi} = \frac{S + \frac{dJ_{\phi}}{dr}}{Bo[1-9\%]}$$

Cylindrical Tearly Mode Equation

