

$$\beta = \beta_0 + \dot{\beta} + \dot{\beta} = \beta_3$$

$$\oint E \cdot J(= - J \oint B$$

$$E = \frac{-\alpha^2}{2R}\beta$$

$$M = E_{q} v = -R \frac{\alpha^2}{2R} \beta \lambda 2 \pi R = \pi \alpha^2 \lambda R \beta$$

$$L = Mt = 57a^2 \lambda R(-Bt) = 57a^2 \lambda RB_0$$