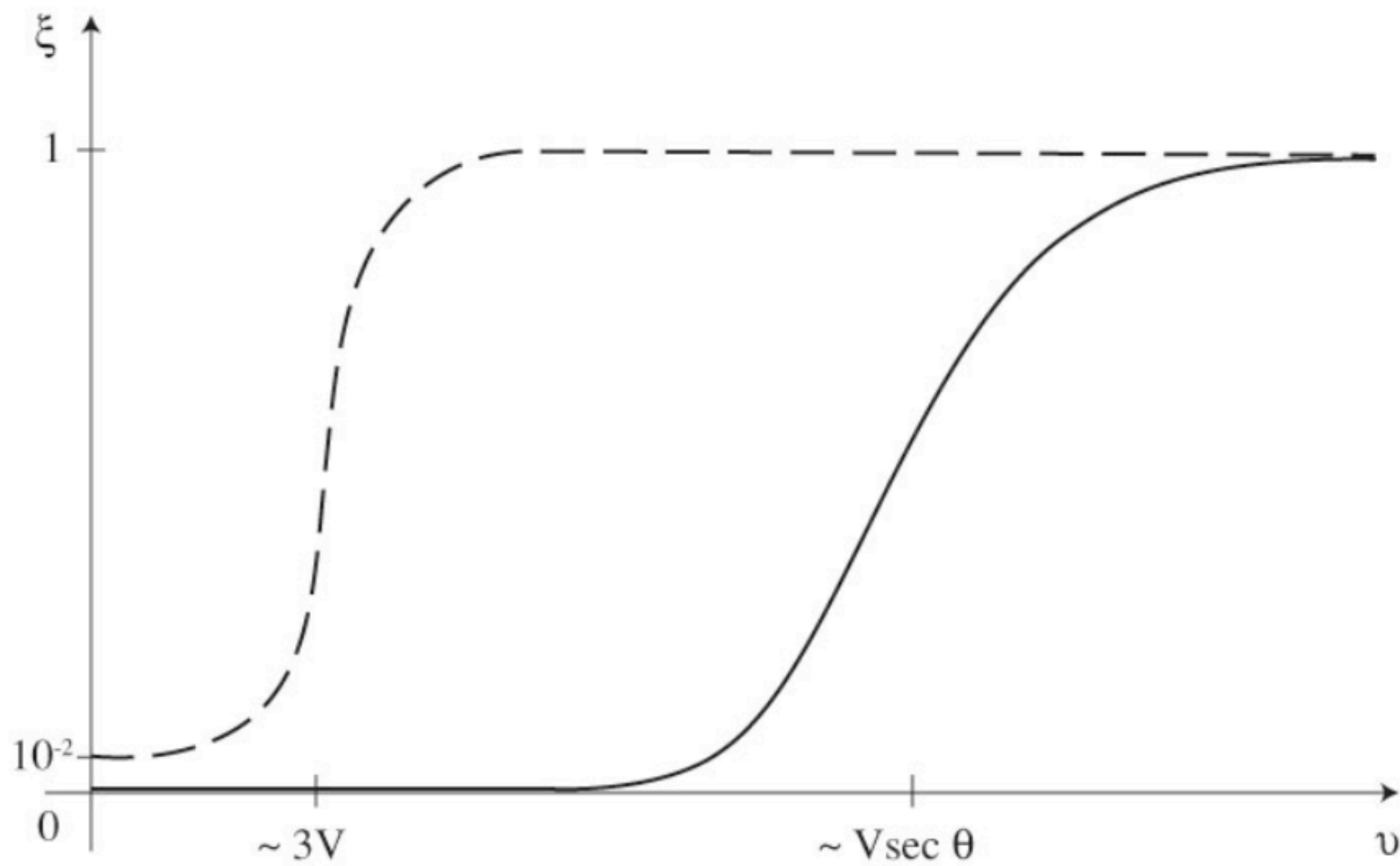


# Ion Injection

- Not addressed using Parker equation if  $v \sim V$
- Depends on structure of shock ramp and foot
- Not currently understood
- Possible processes: mirroring, leakage, reflection/scattering by turbulence or ramp potential
- Do not yet understand origin of field-aligned beams

$$v_{\text{threshold}} = V \sec \theta$$



# Anisotropy

$$\xi = \frac{3u}{v} \left[ \left( \frac{q}{3} - 1 \right)^2 + \frac{\left( \kappa_{Bohm}^2 + \kappa_{\parallel}^2 \cos^2 \theta_{bn} \right) \sin^2 \theta_{bn}}{\left( \kappa_{\perp} \sin^2 \theta_{bn} + \kappa_{\parallel} \cos^2 \theta_{bn} \right)^2} \right]^{1/2}$$

