

ENIGMA Lesson 1 (5) Marscher

3-D: Jet does not tend to remain symmetric, so standing shocks are not exactly conical + Mach disk is weak or absent

IV. Instabilities of Confined Jets

Already mentioned: kink instability of current-carrying jet

Oscillations of cross-section discussed above is a "body mode" often called a pinch instability

Other body modes include helical instability

Jet can be concentrated in twisting ribbons of higher g

Kelvin-Helmholtz instability occurs when two parallel flows have different velocities, as at boundary of jet

→ causes turbulence + entrainment of external medium