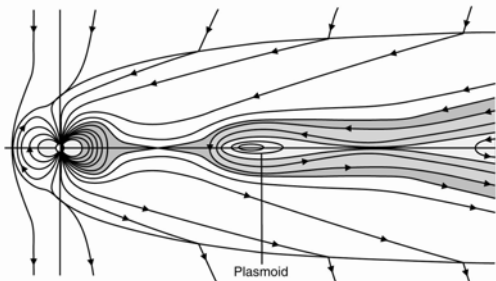
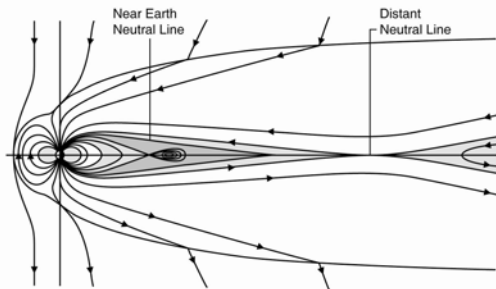
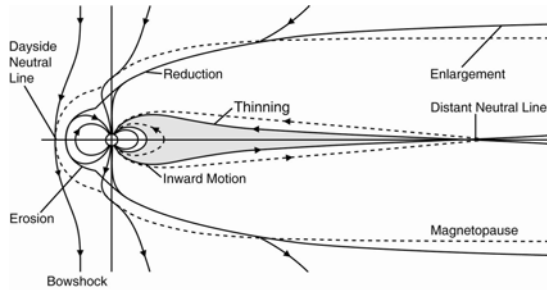




# Magnetic Reconnection : The Roles of Geometry, Beta, and Alfven Velocity in Planetary Magnetospheres and in the Solar Wind

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SHINE-GEM Session 7: Comparing the Properties of Reconnection in Various Environments



- Reconnection is controlled by magnetic geometry and plasma conditions
- X-line geometry produces fast reconnection; planar geometry produces slow reconnection or annihilation
- High Mach number flows produce high beta magnetosheaths leading to low reconnection rates. Center of plasma sheet is high beta plasma with low reconnection rate