



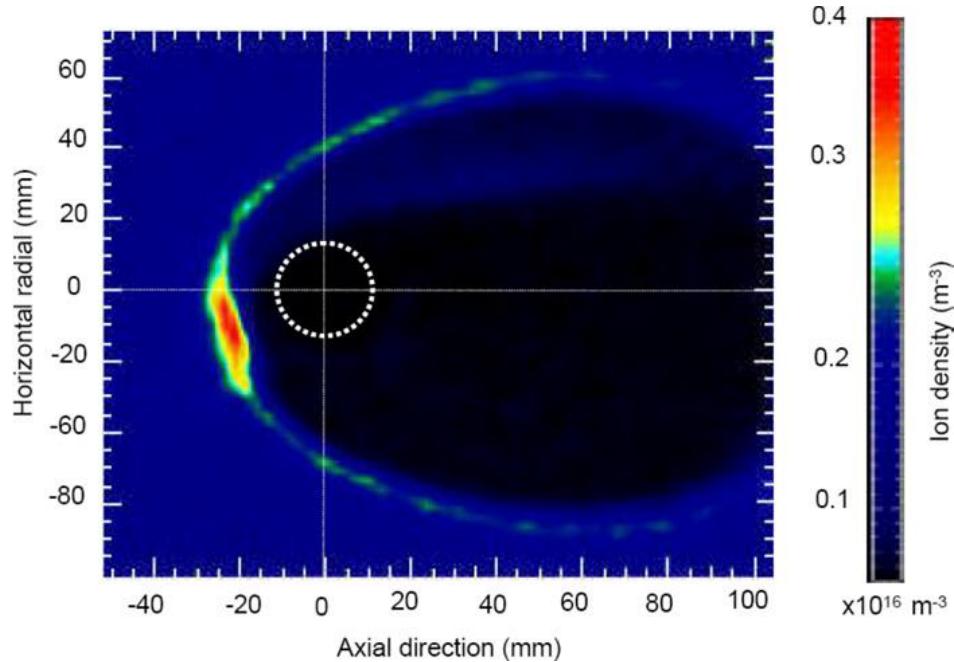
ASDEX Upgrade



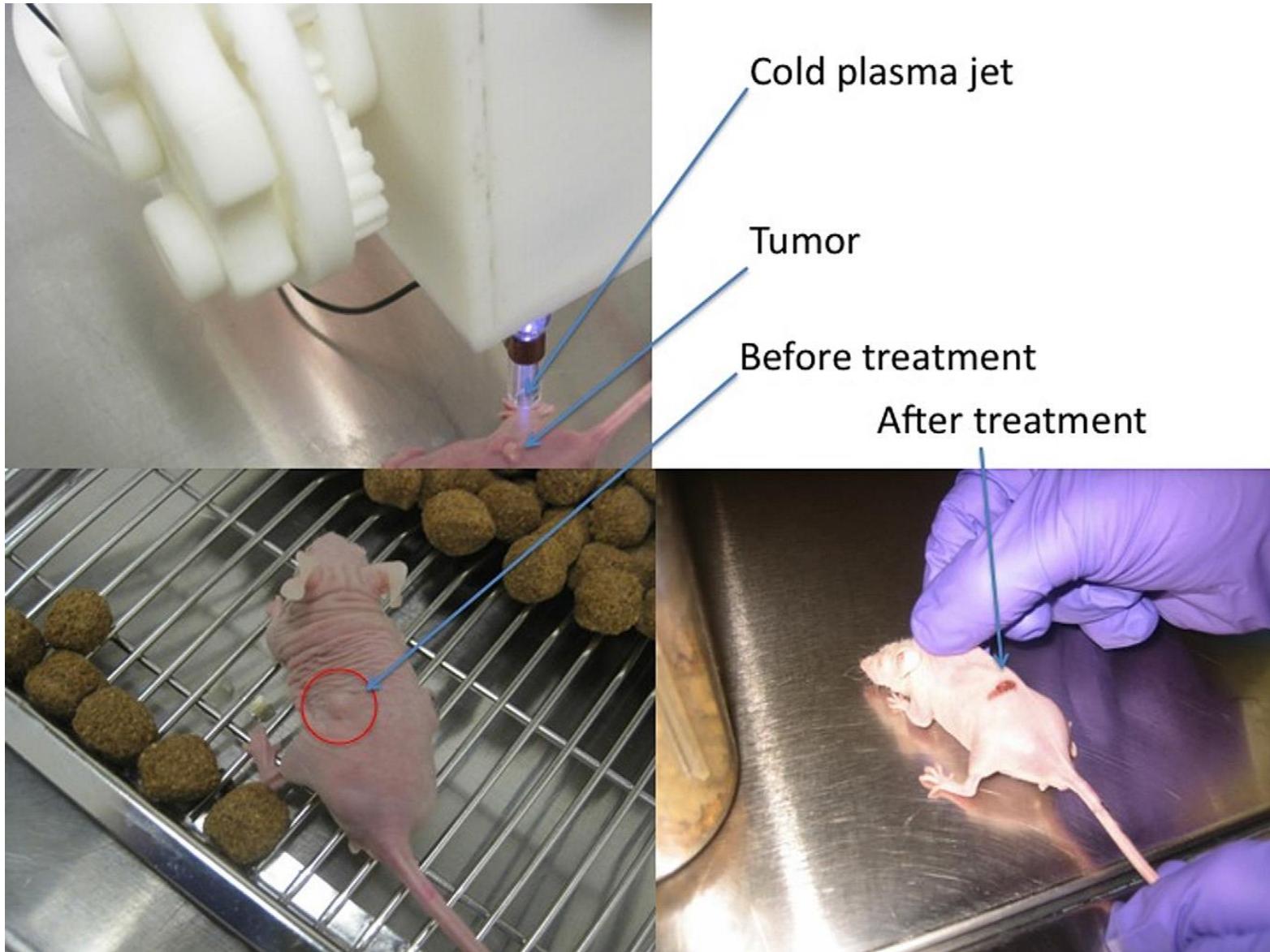
Seminar Plasma physics WS 18/19

possible topics

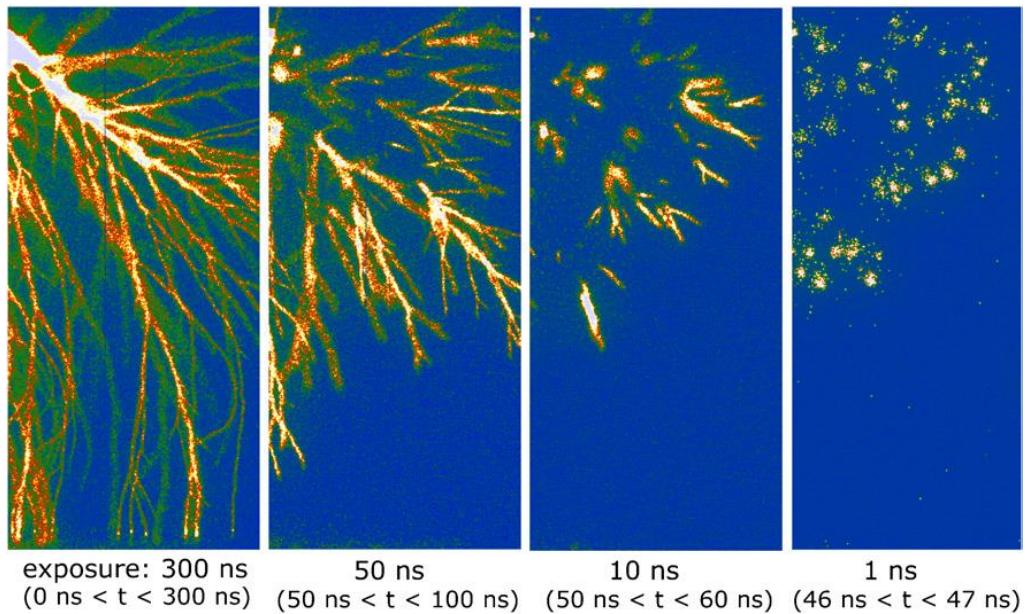
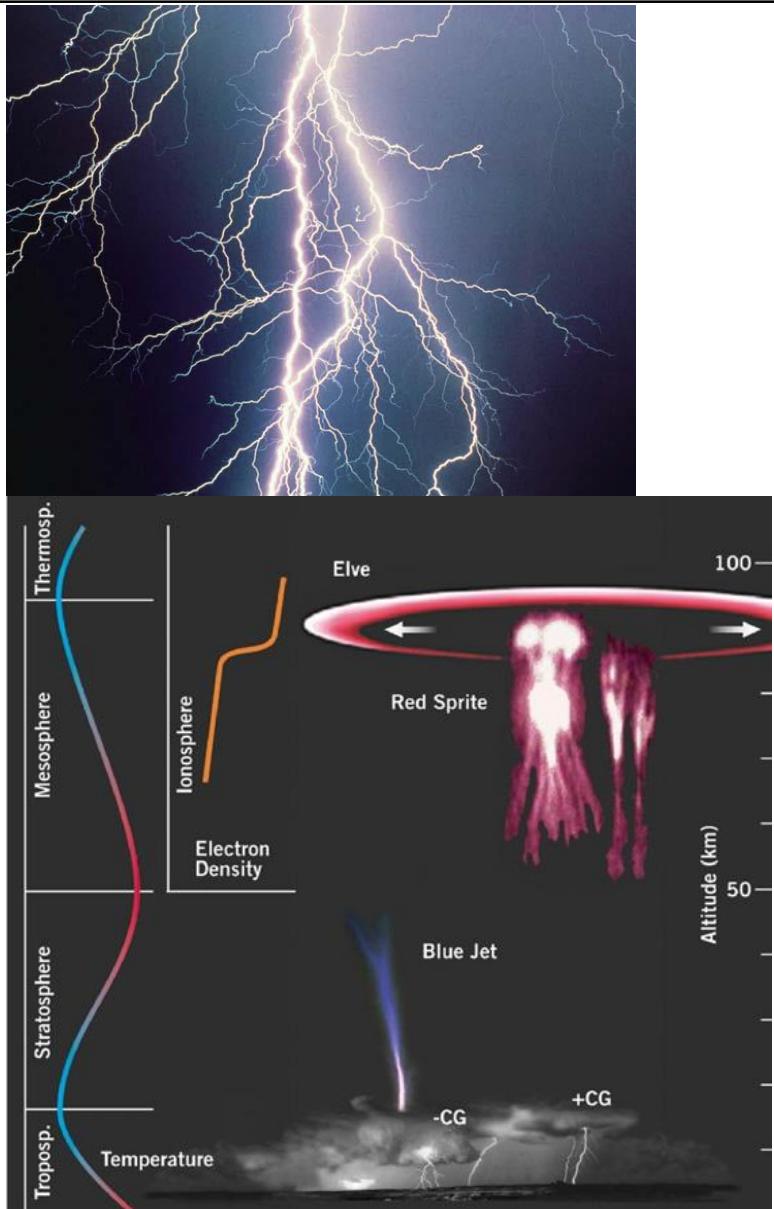
Spacecraft protection with shields



Plasma medicine

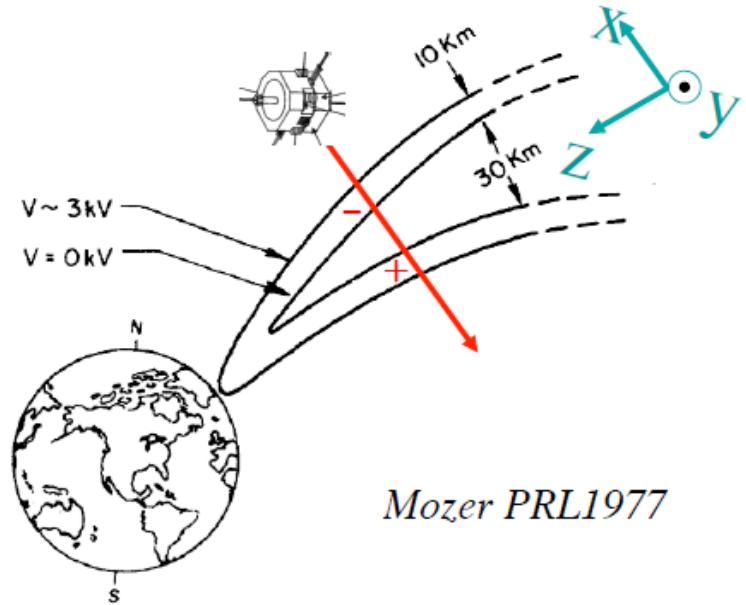


Lightning physics



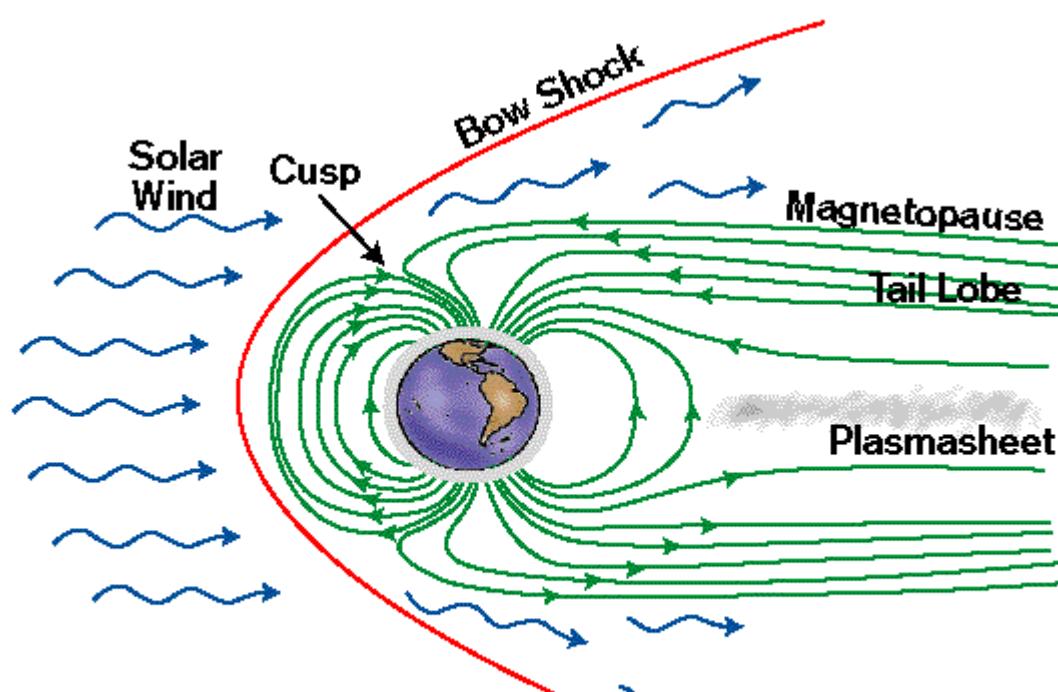
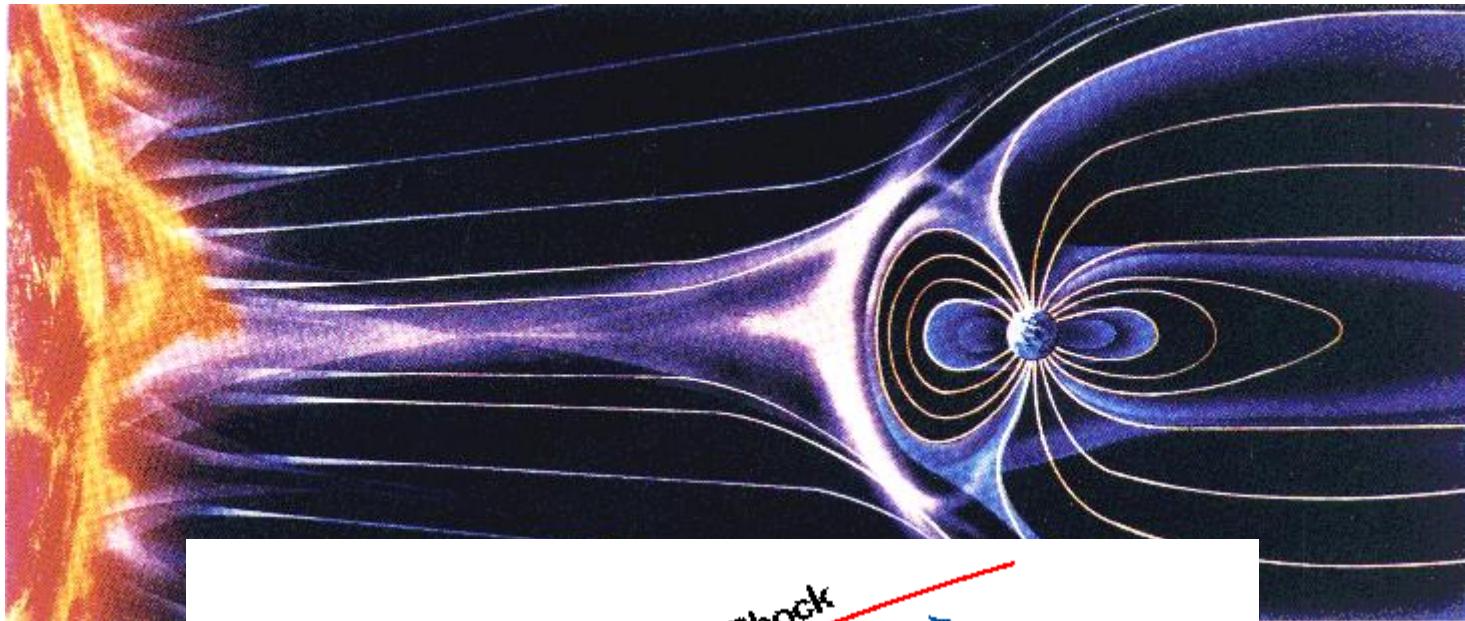
Double layers

important for thrusters, but also for auroral arcs...



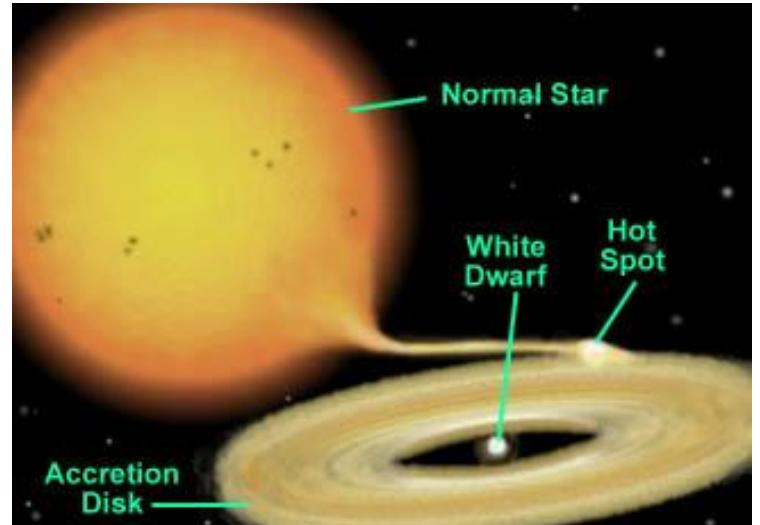
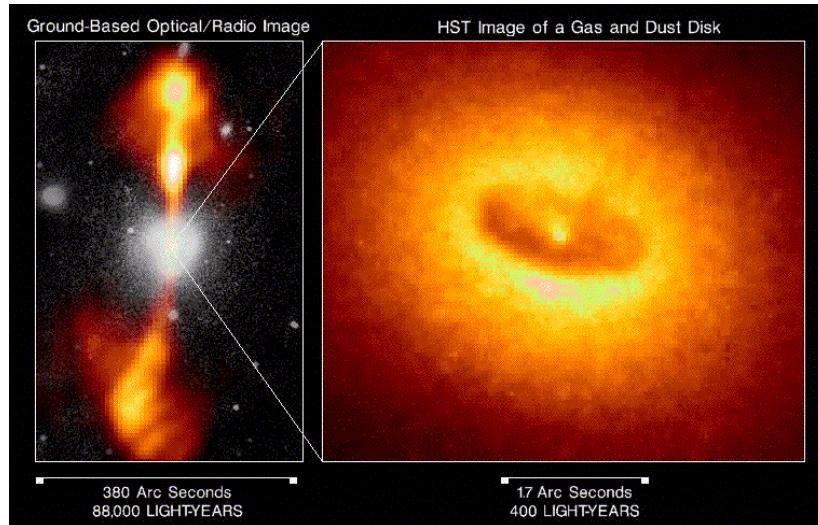
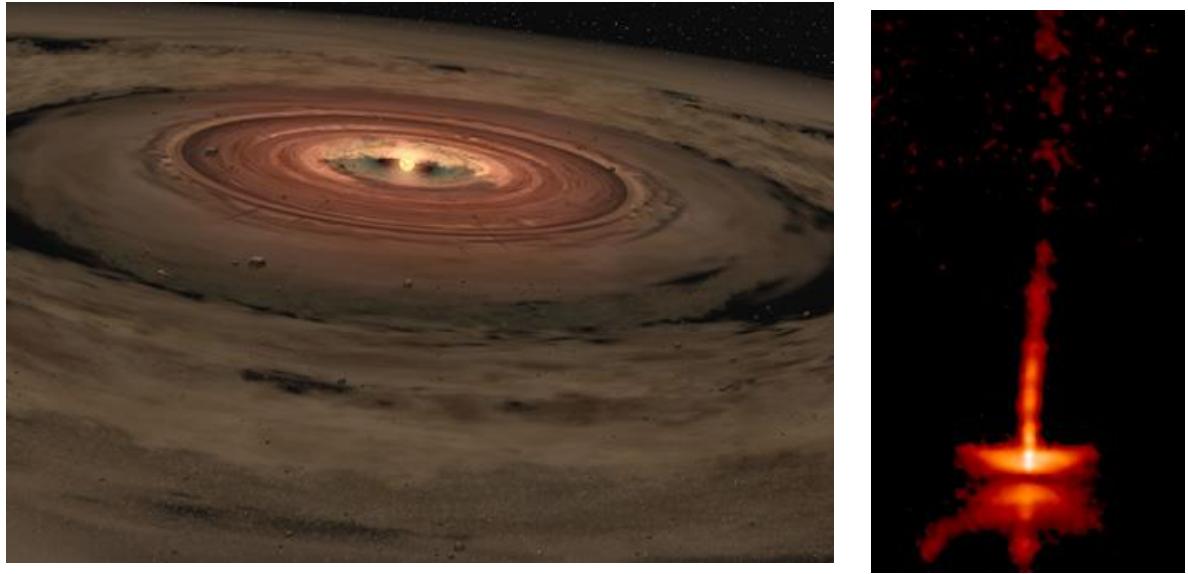


Shocks

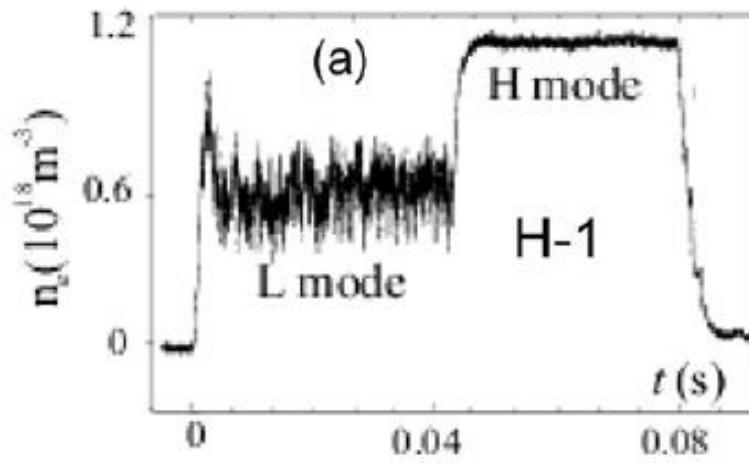
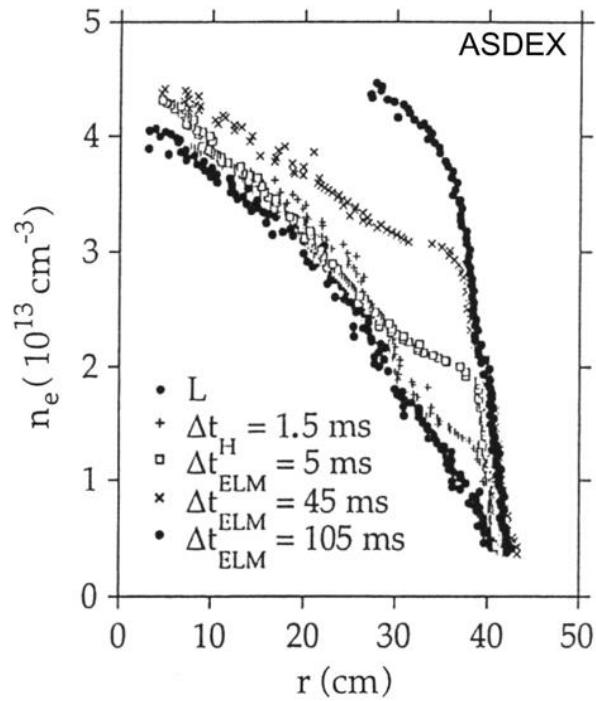


Accretion disks (MRI)

- formation of stars and planets
- mass transfer between binary stars
- release of energy in quasars

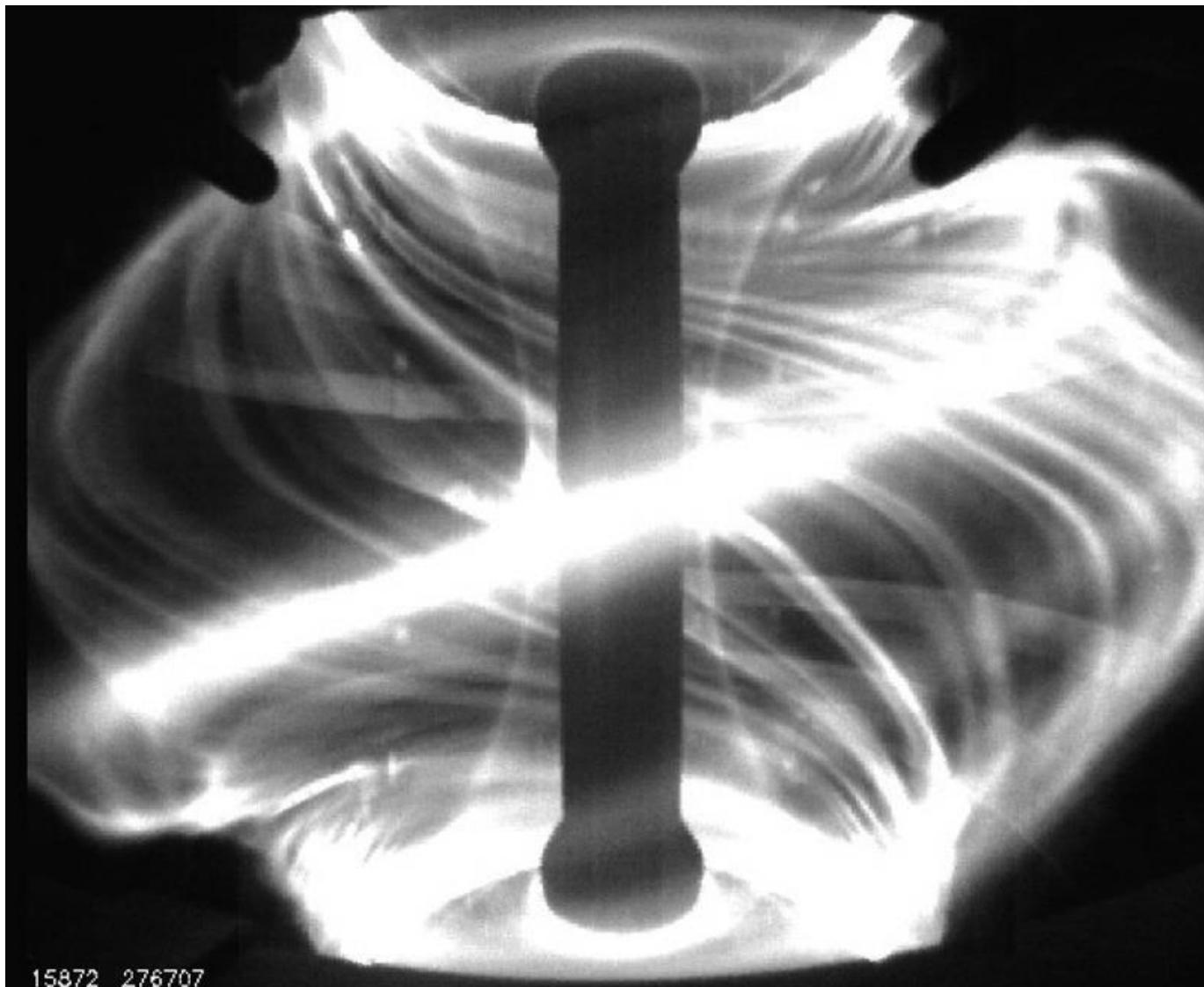


Confinement regimes



L-mode, H-mode, I-phase, I-mode, QH-mode, EDA-H-mode, Super-H-mode
turbulence, magnetic confinement, transport barriers

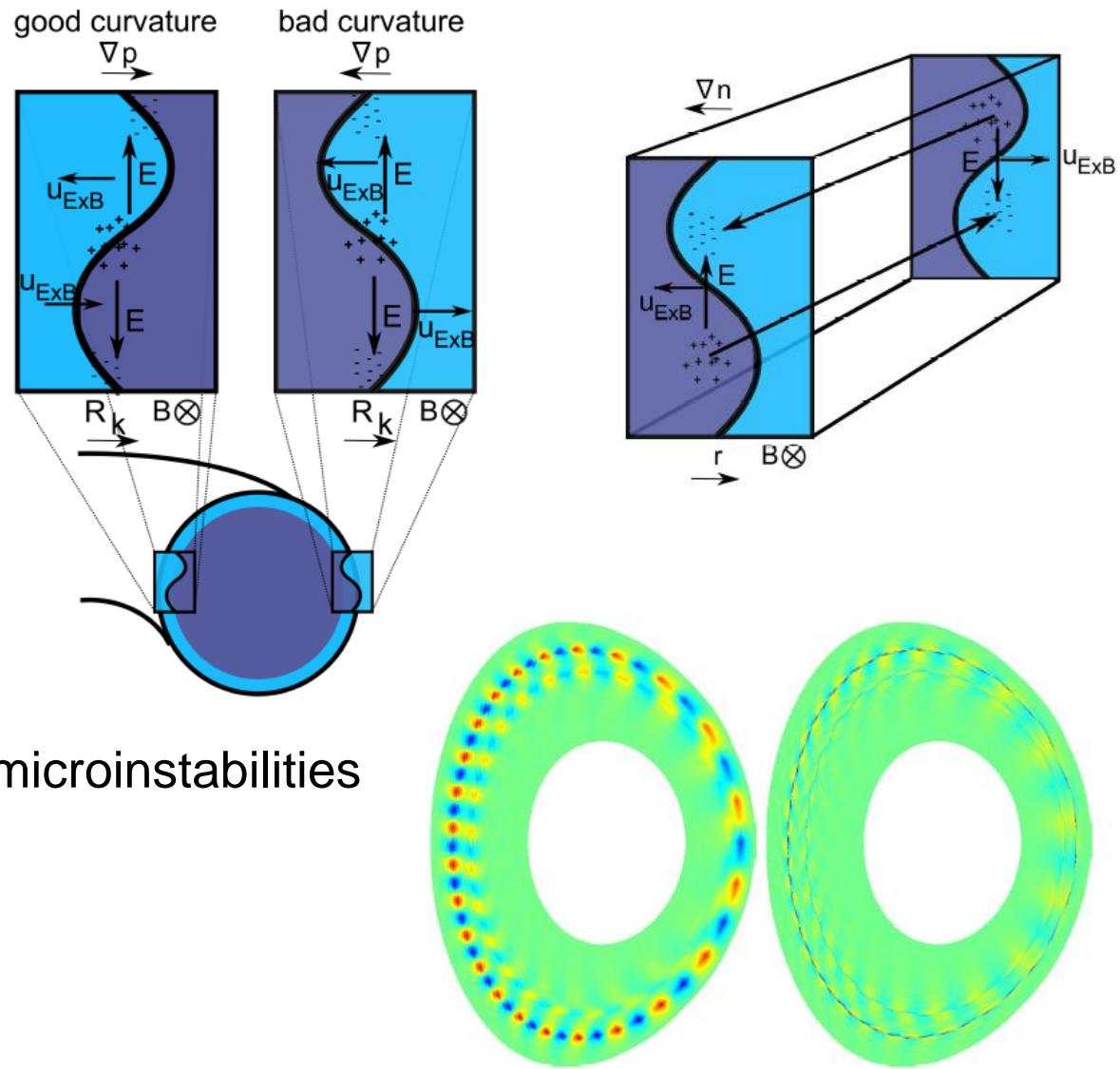
H-mode ELMs



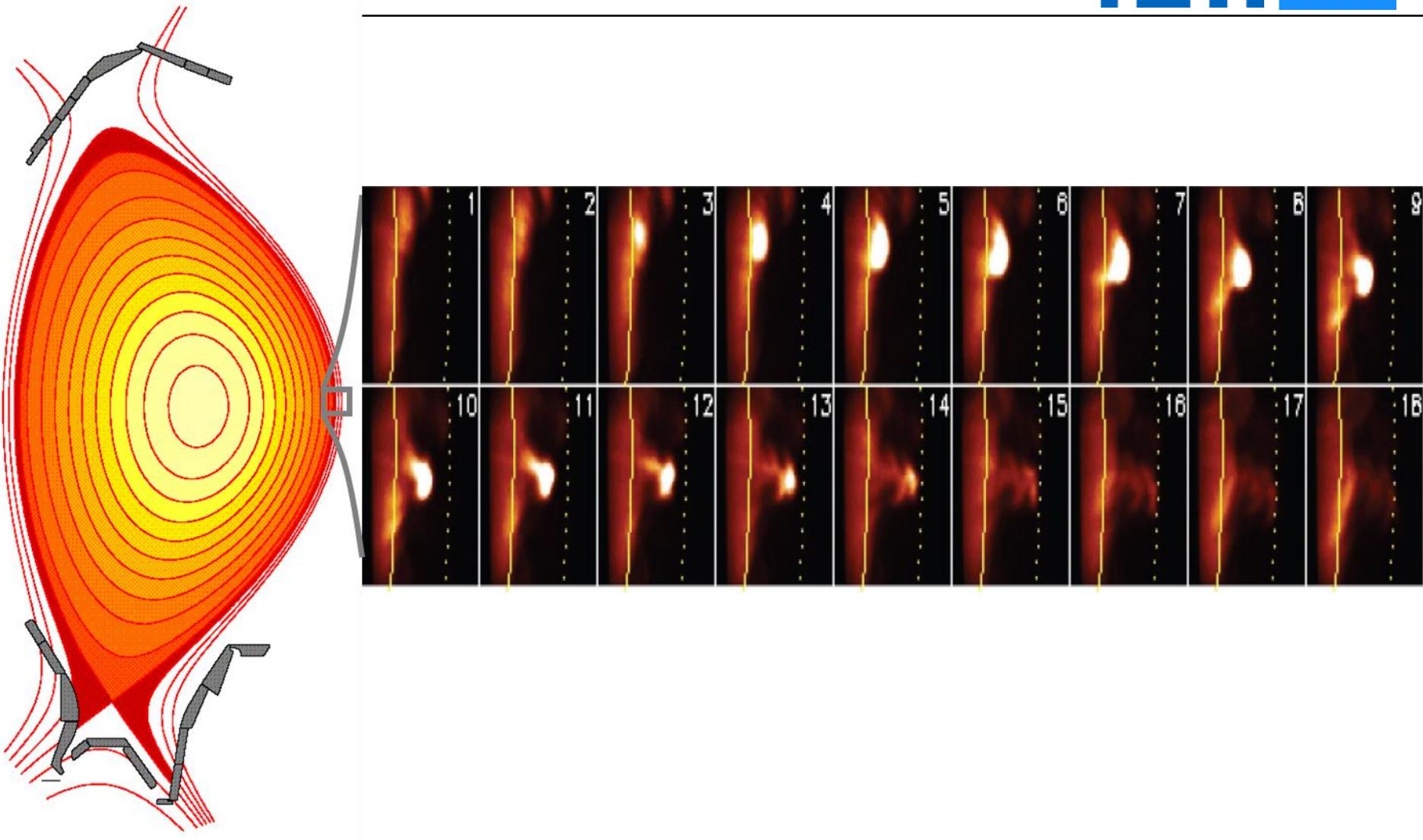
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Microinstabilities

- Interchange
- Drift-wave
- ITG, TEM, ETG



Plasma filaments in the scrape-off layer



Divertor detachment

