EX/P4-28 Fast Wave induced ICRF plasma Expansion in ADITYA Torus

By Kishore Mishra *et al.*

- Plasma homogeneity is desirable for effective wall conditioning and uniform coating on fast wall of ITER and Fusion Machines
- Usual ICRF Plasma is localized near resonance or antenna
- An effect of Fast Wave suddenly propagating at a critical Bt → leads to plasma fills up the torous.
- This may be useful for uniform wall coating in permanent field machines.



Top CCD camera shows plasma fills up the whole torus at critical Bt, when FW starts propagating. At high Bt = 0.75 T, plasma is only confined near the outboard wall at antenna location.



