

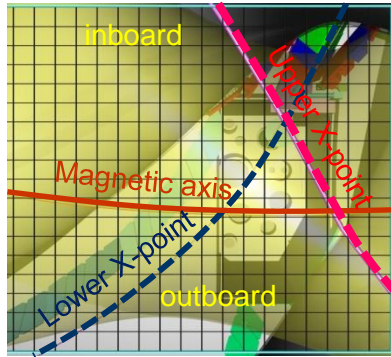


Radiation measured and modelled during N₂ seeding in LHD

B. J. Peterson (NIFS), G. Kawamura (NIFS), H. Tanaka (Nagoya U.), R. Sano (QST) et al. EX/P8-6

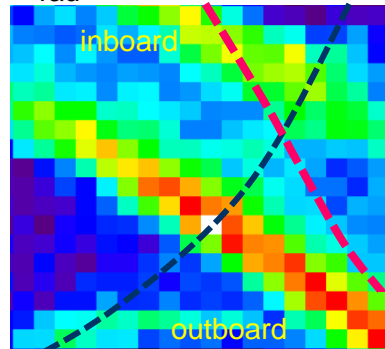
Imaging bolometer views LHD plasma from upper port

Bolometer Field of View

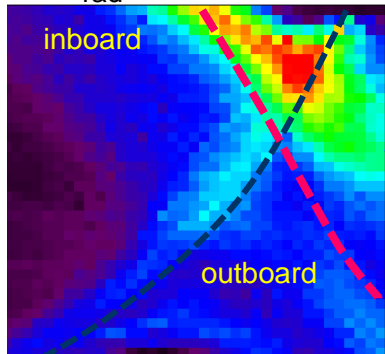


N₂ seeding gives double stripe radiation pattern which is localized toroidally and poloidally

P_{rad} from Bolometer



P_{rad} from Model



EMC3-EIRENE model with 0% recycled N₂ shows localized radiation, but with weaker outboard stripe

P_{rad} from EMC3-EIRENE at neighboring field periods shows that localized radiation observed by bolometer is due to proximity to N₂ inlet along magnetic field lines

