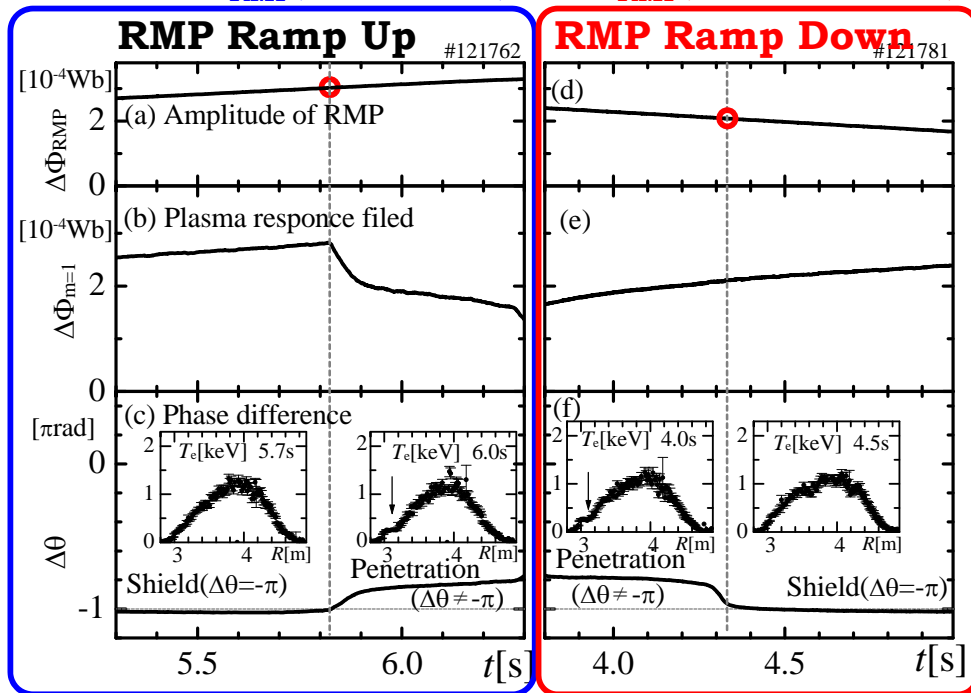


Experimental observation of response to Resonant Magnetic Perturbation and its hysteresis in LHD

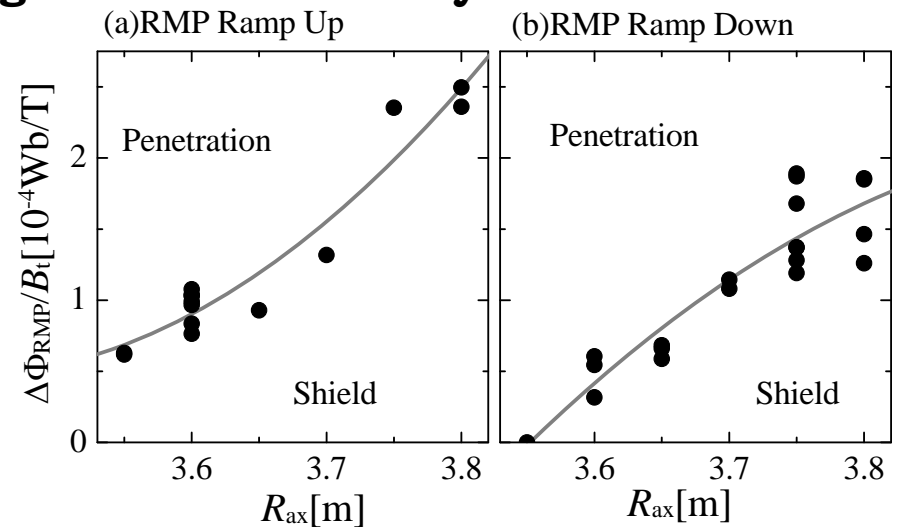
EX/P6-35 NARUSHIMA, Y. (NIFS)

- Plasma response to RMP observed
- Large RMP penetrates to plasma, leads island growing
- Critical RMP $\Delta\Phi_{\text{RMP}}$

$$\Delta\Phi_{\text{RMP}}(\text{Ramp Up}) > \Delta\Phi_{\text{RMP}}(\text{Ramp Down})$$



- Critical RMPs
 - depend on R_{ax} (magnetic axis position)
 - show hysteresis
- Magnetic islands likely to be healed at larger R_{ax}



- Poloidal viscosity one candidate of R_{ax} dependence

