

# Pedestal Structure in ELMy RF-heated plasmas vs Plasma Current

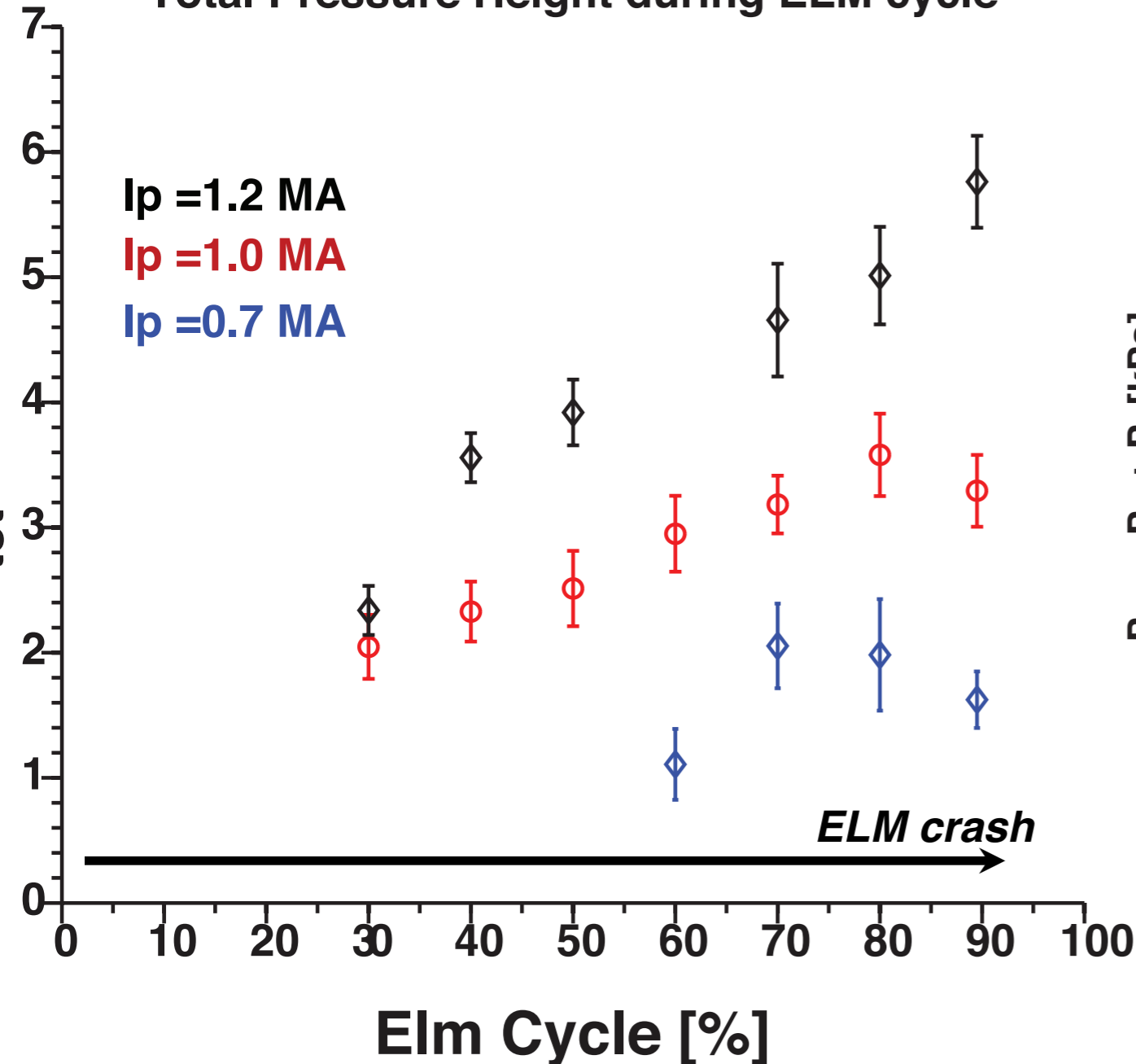
A. Diallo, R. Maingi, B. LeBlanc, and others....

## ◆ Goals:

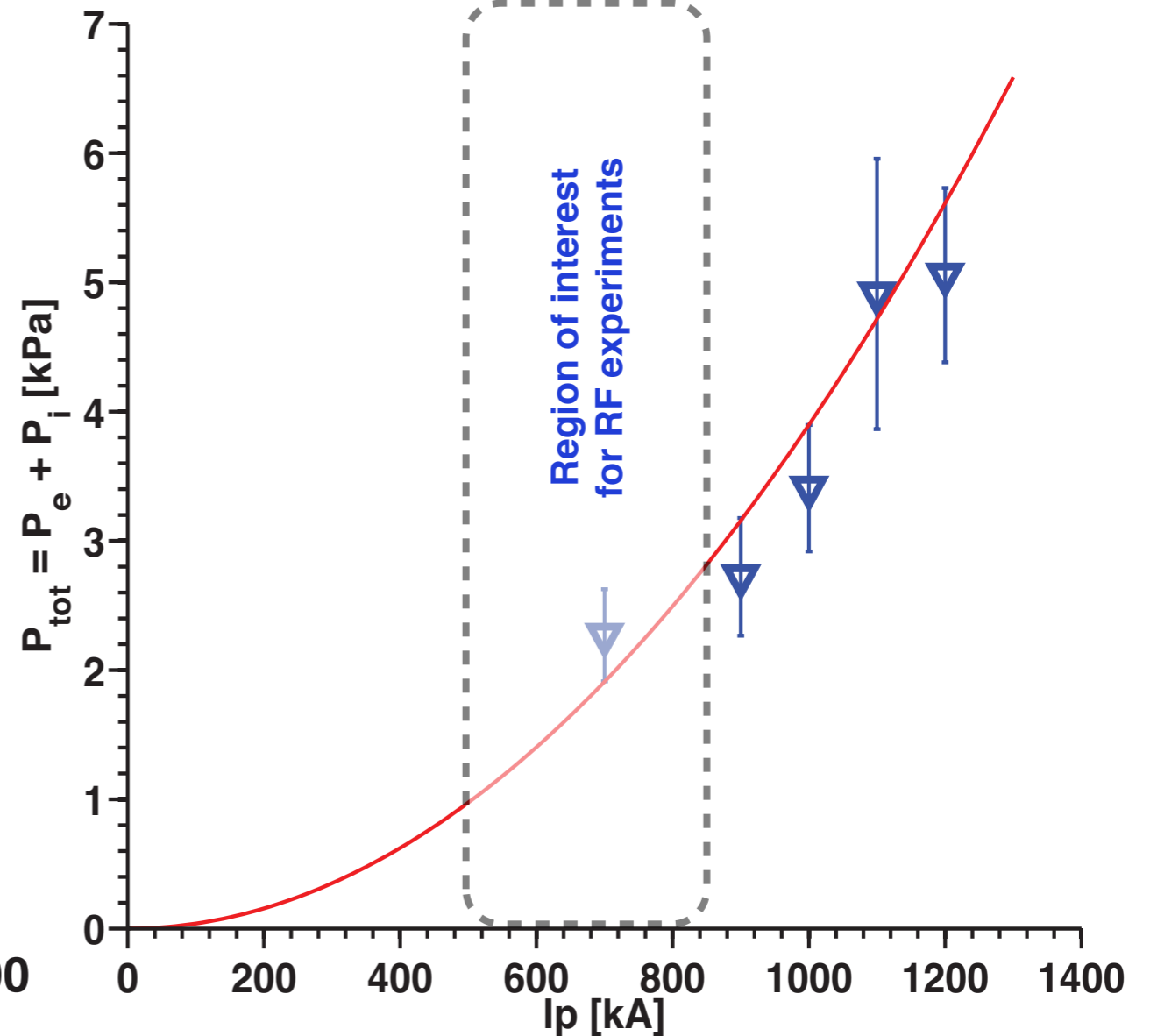
- Compare and contrast the pedestal structure in beam heated vs RF+beam plasmas
- Make use of the additional MPTS channels to resolve the electron pedestal with smaller outer gap.

# XP1044 documented the pedestal height in a NBI-heated discharge

$P_{\text{NBI}} = 6 \text{ MW}$ , LSN, high triangularity, fixed Bt  
Total Pressure Height during ELM cycle



Peak total pedestal pressure scaling with  $I_p$



Document the pedestal structure in low plasma current and in a RF-heated discharge.

## Experimental Plan Requirements

- RF power greater than 1.5 MW.  
    approach 4 MW shot with hybrid heating
- Maintain outer gap between 8 - 9 cm  
    optimum for MPTS
- $I_p = 700 \text{ kA}, 800\text{kA}, 900 \text{ kA}$ ; and high delta shape  
    For comparison with NBI pedestal database
- Beam A for ion profiles and MSE.
- Can piggy back on XPI016