Extension of operational boundary of high-beta long-pulse operation at KSTAR

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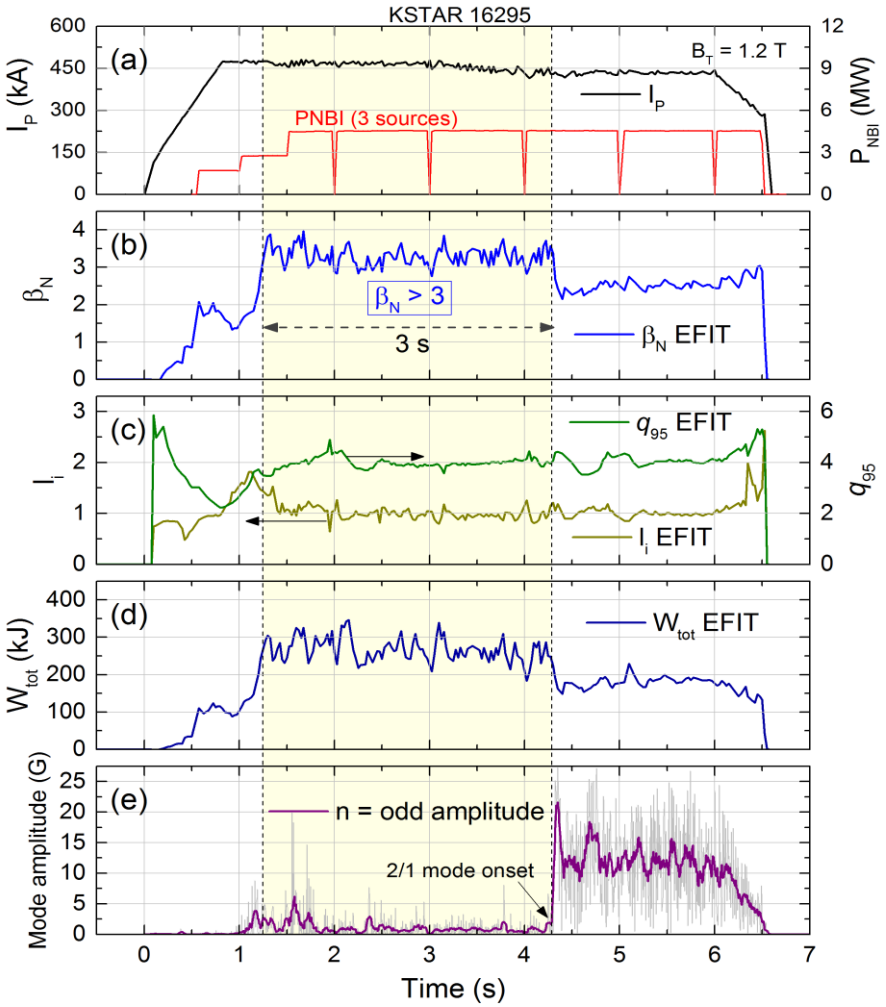
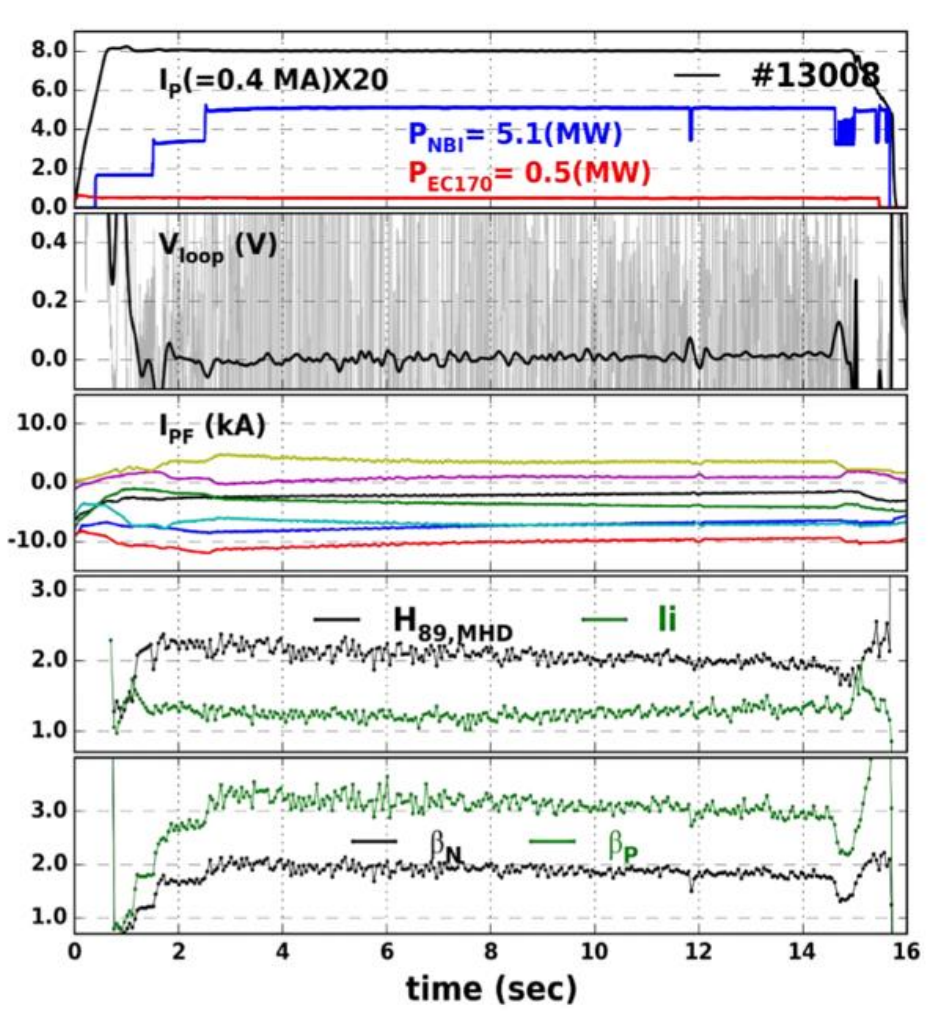
Successful development of both high β_N and β_p discharges for long-pulse compatible scenarios at KSTAR



KSTAR high β_N discharge evolutions for 3 seconds (β_N >3, I_p = 0.6 MA, B_T = 1.2 T, q_{95} ~4, *li* ~ 1)



Steady-state high β_p discharge sustained for 12 seconds (β_p >3, I_p = 0.4 MA, B_T = 2.9T, q_{95} ~11, H_{89} ~ 2.1, *li* ~ 1.2)