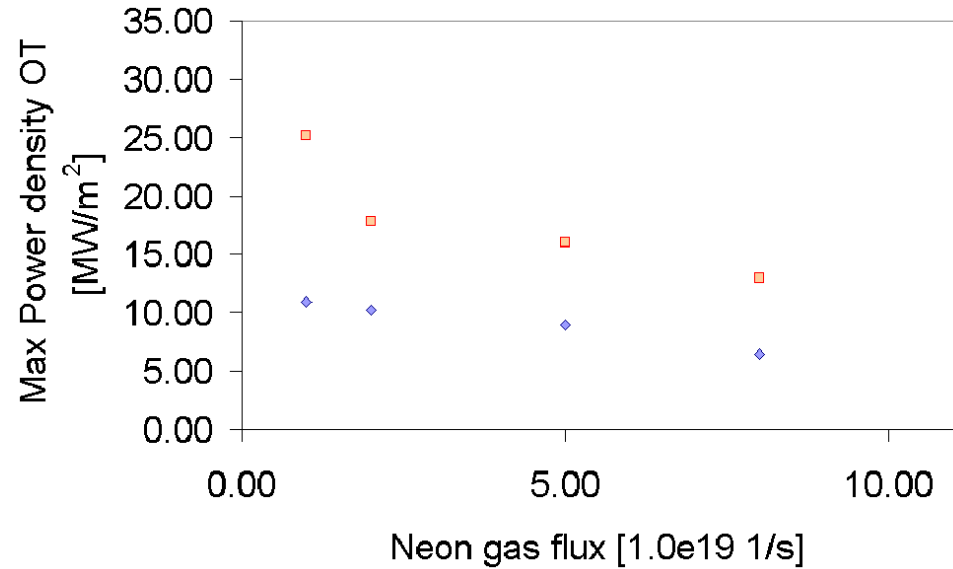
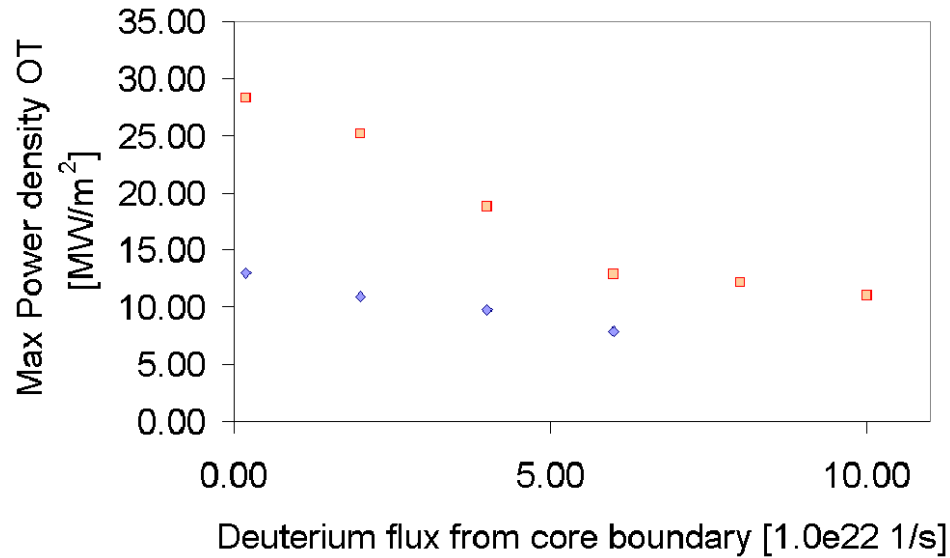
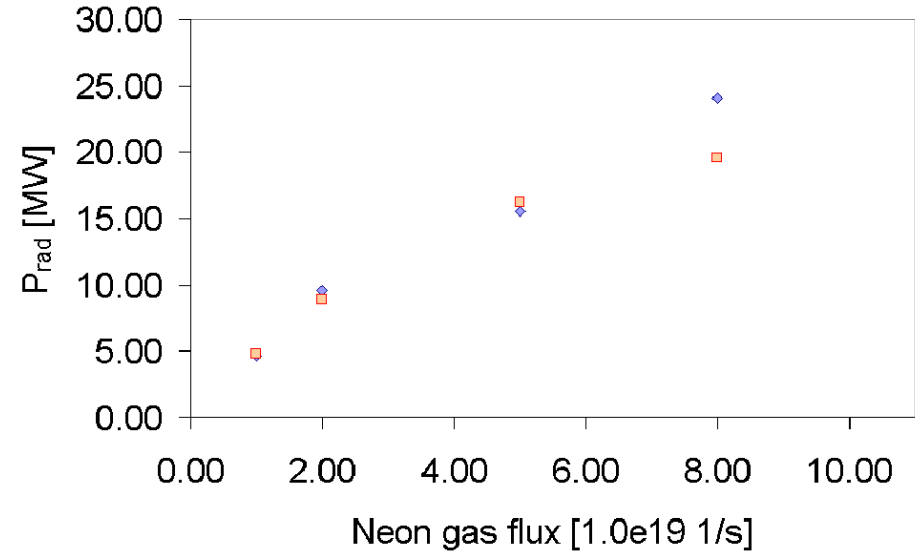
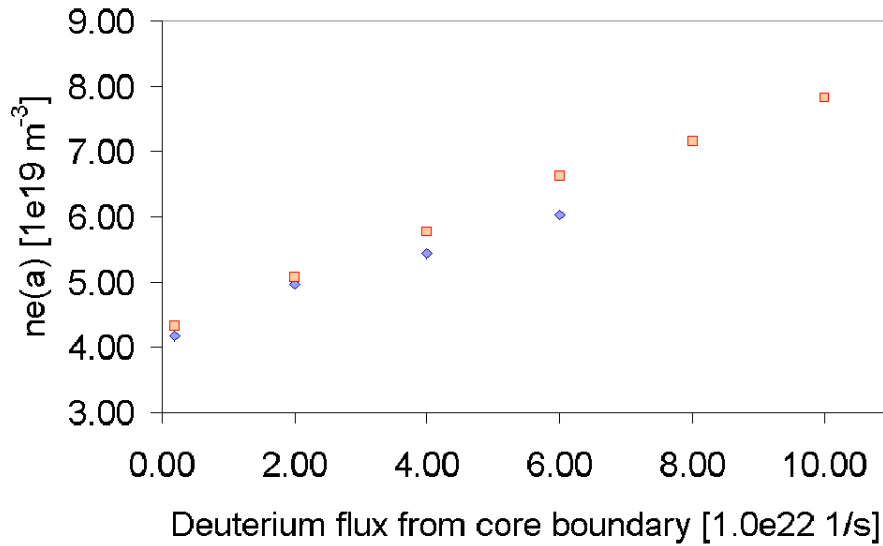


Integrated ITER Scenario Modelling and Density Evolution Prospects

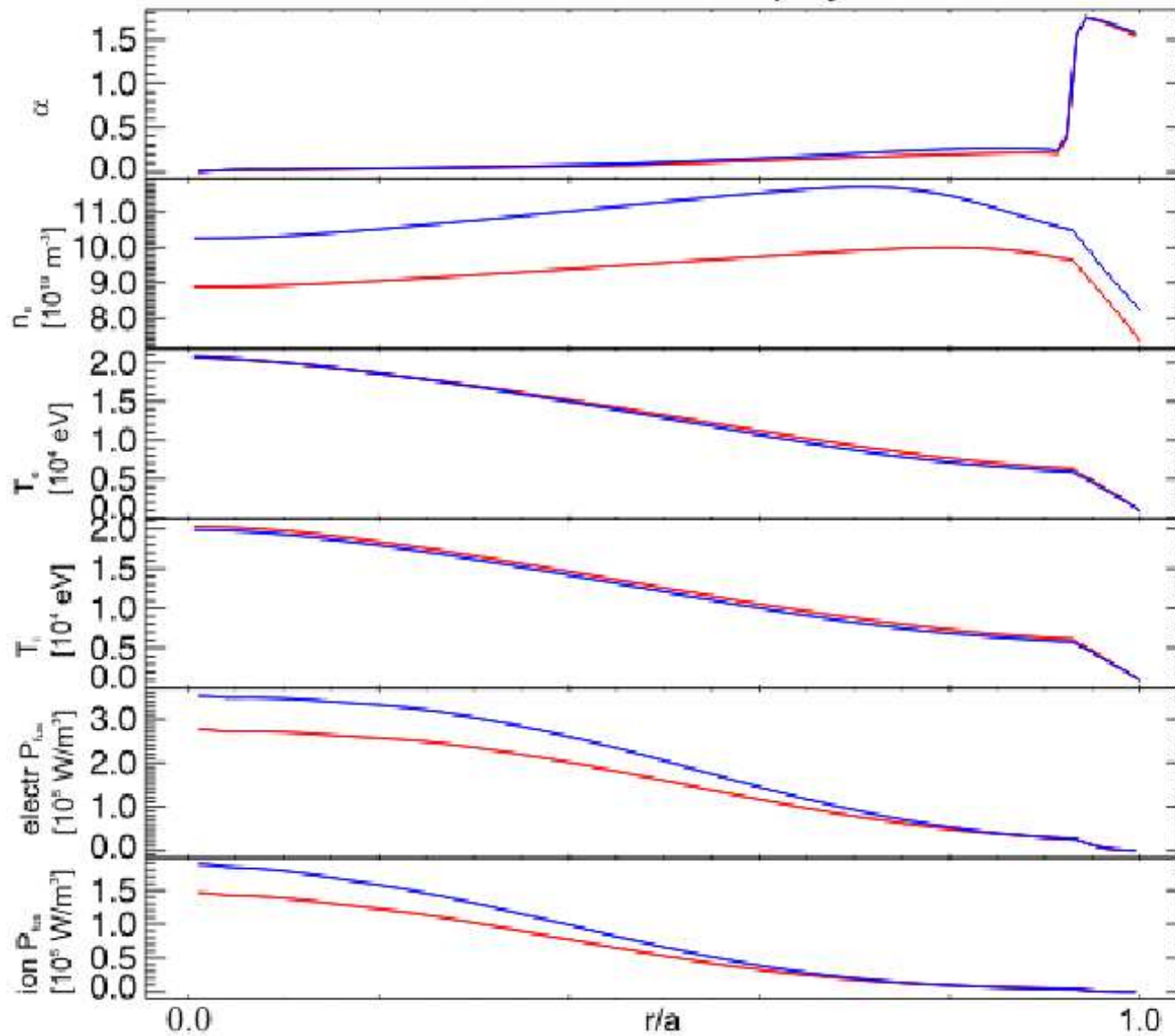
S. Wiesen, P. Belo, L. Garzotti, F. Koechl,
V. Parail, G. Corrigan, J. Lönnroth, V.
Kotov, R. Kemp, ITM ISM-WG

Core ion / neon gas flux scans:



High / Low confinement

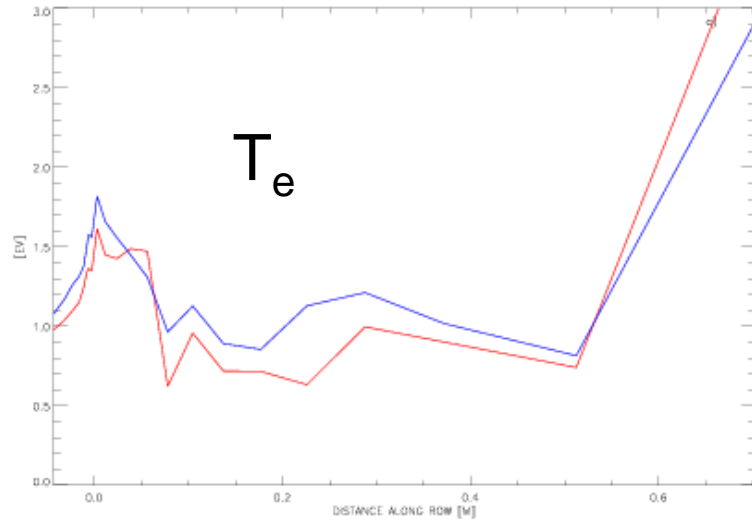
Continuous pellet injection:



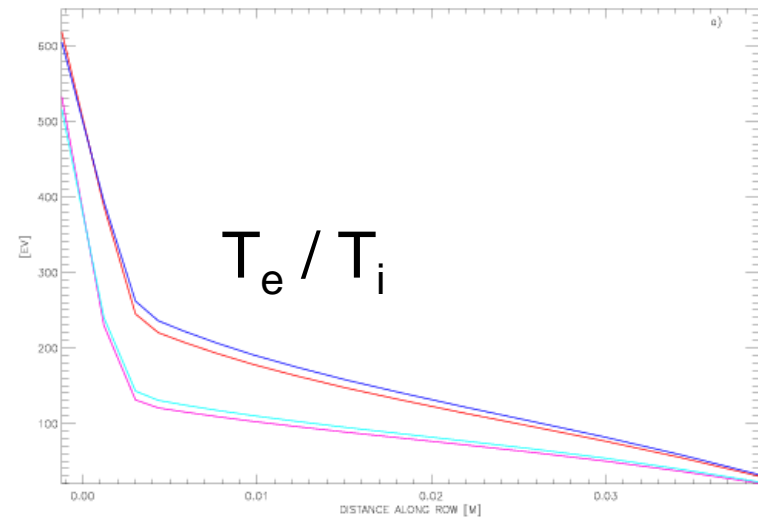
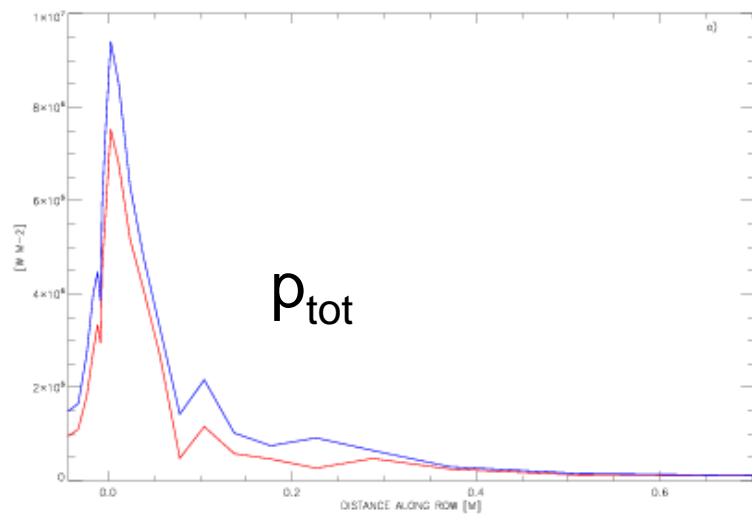
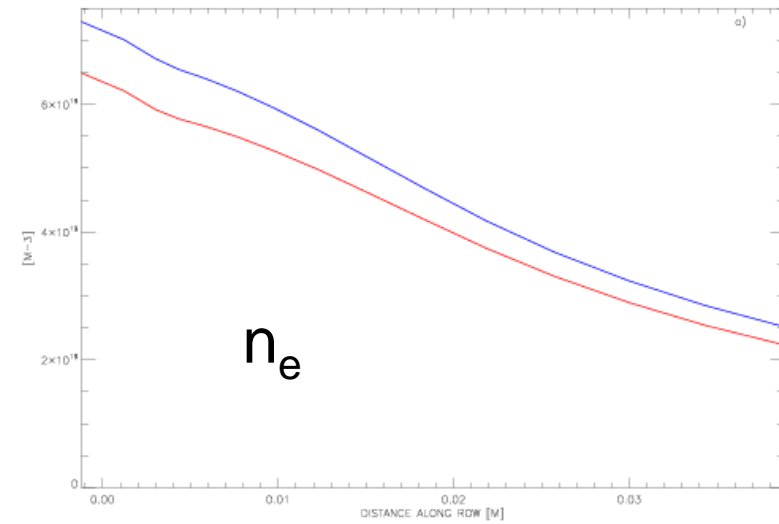
High / Low confinement

Continuous pellet injection:

Outer target:

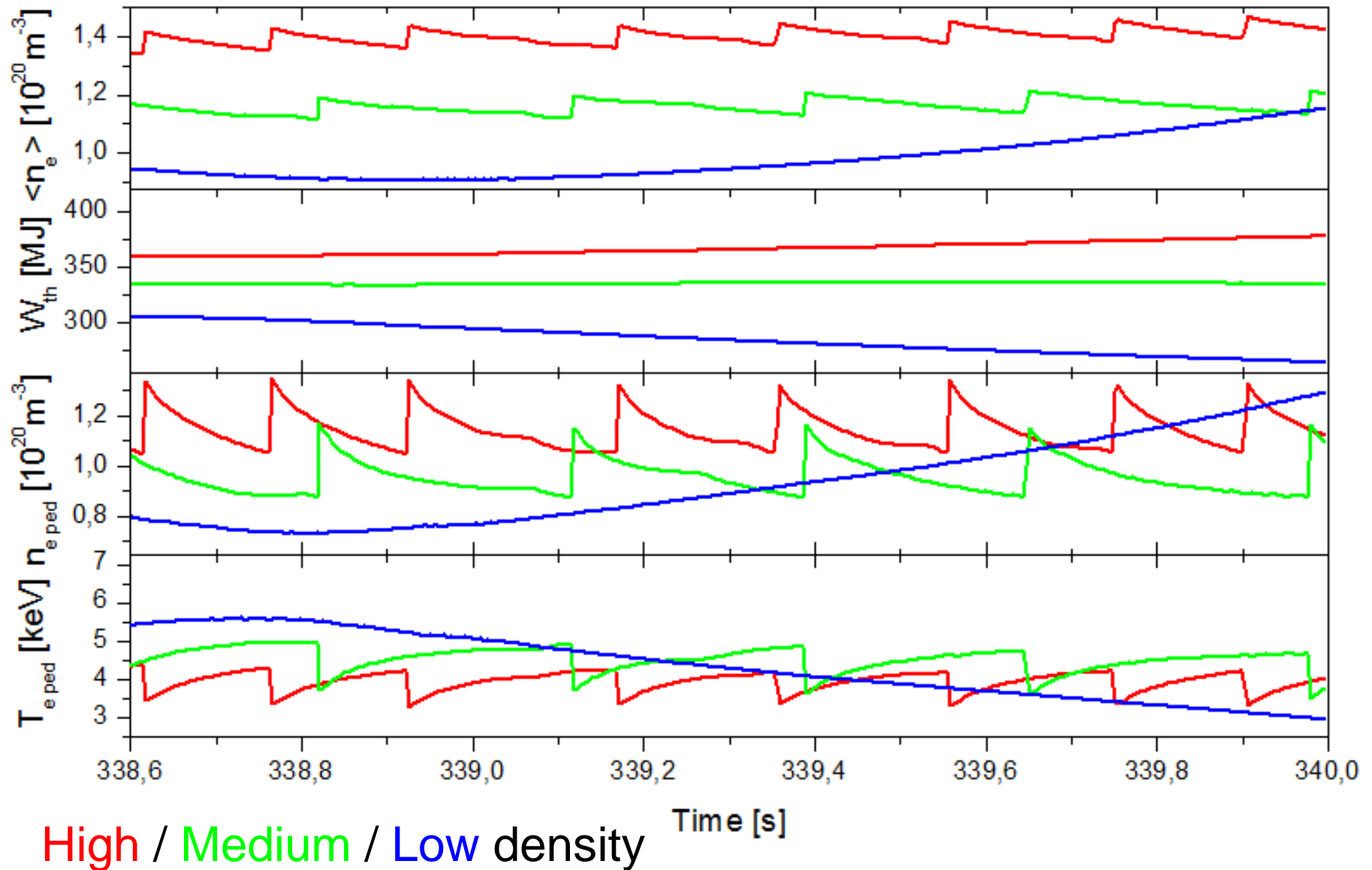


Outer mid-plane:

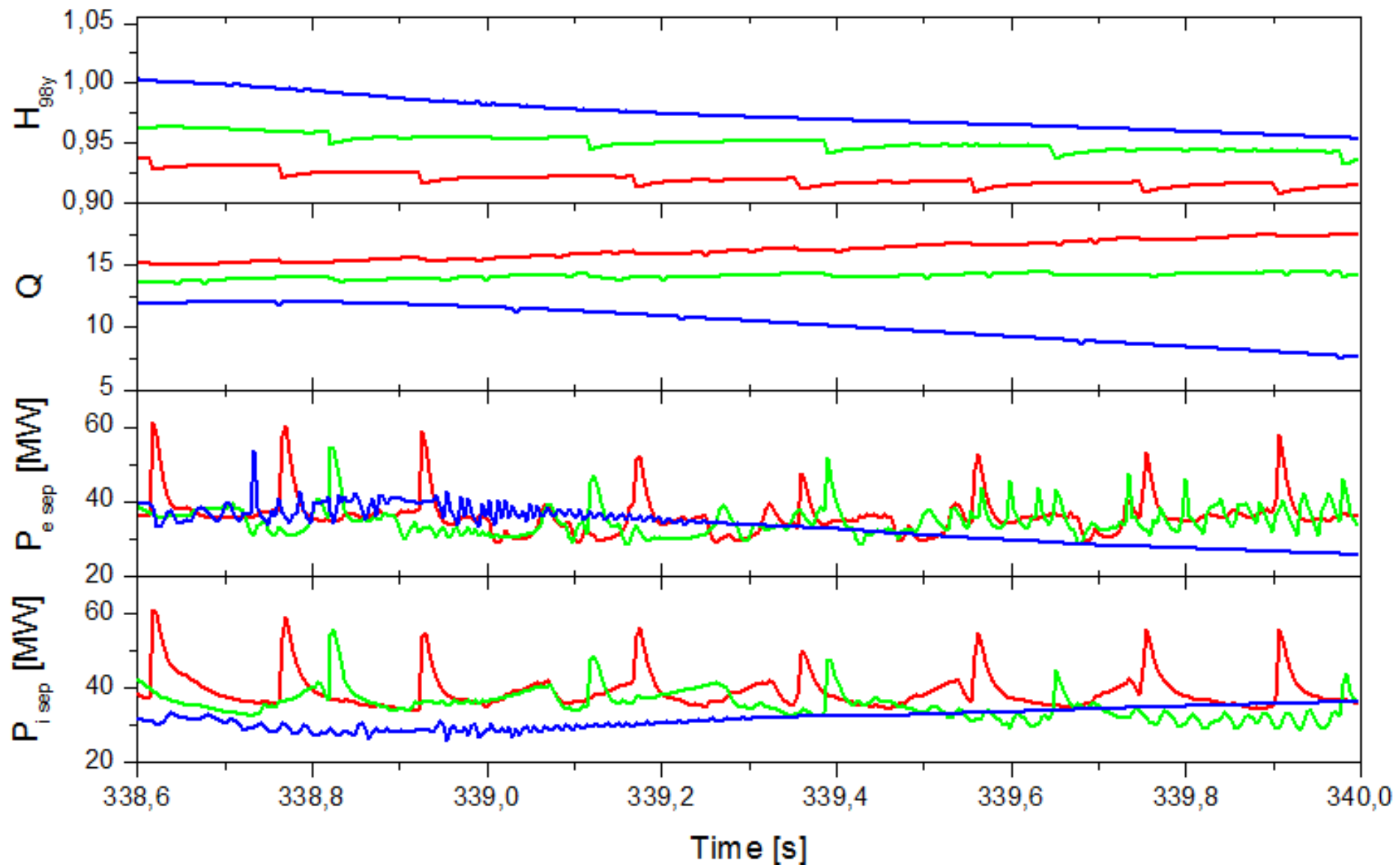


High / Low confinement

Discrete pellet injection: 60 MW SOL radiation, 50% plasmoid drift



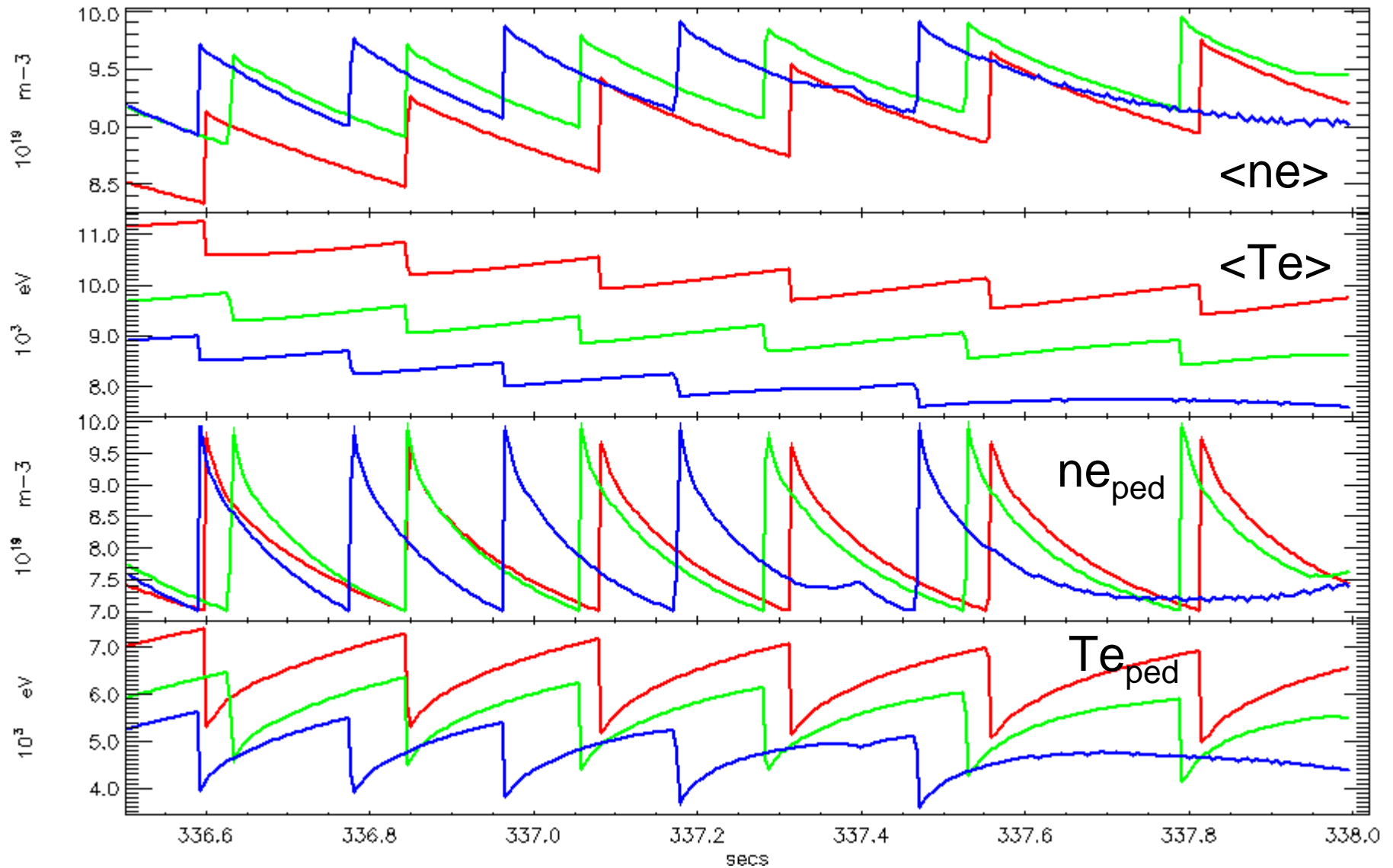
60 MW SOL radiation, 50% plasmoid drift



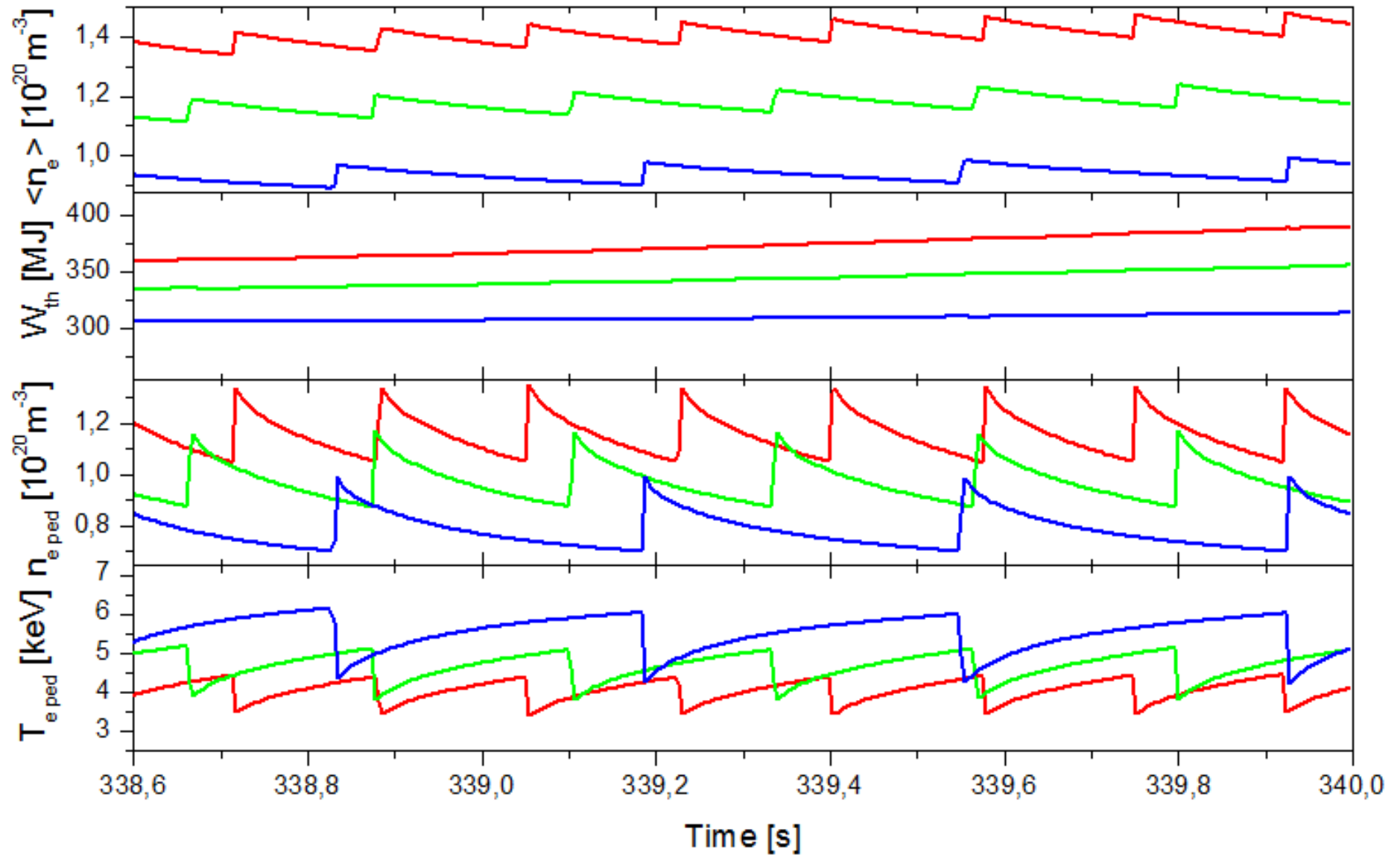
High / Medium / Low density

60 MW SOL radiation, 50% plasmoid drift, Medium density

$\alpha_{\text{crit}} = 1.7$
 $\alpha_{\text{crit}} = 1.5$
 $\alpha_{\text{crit}} = 1.3$

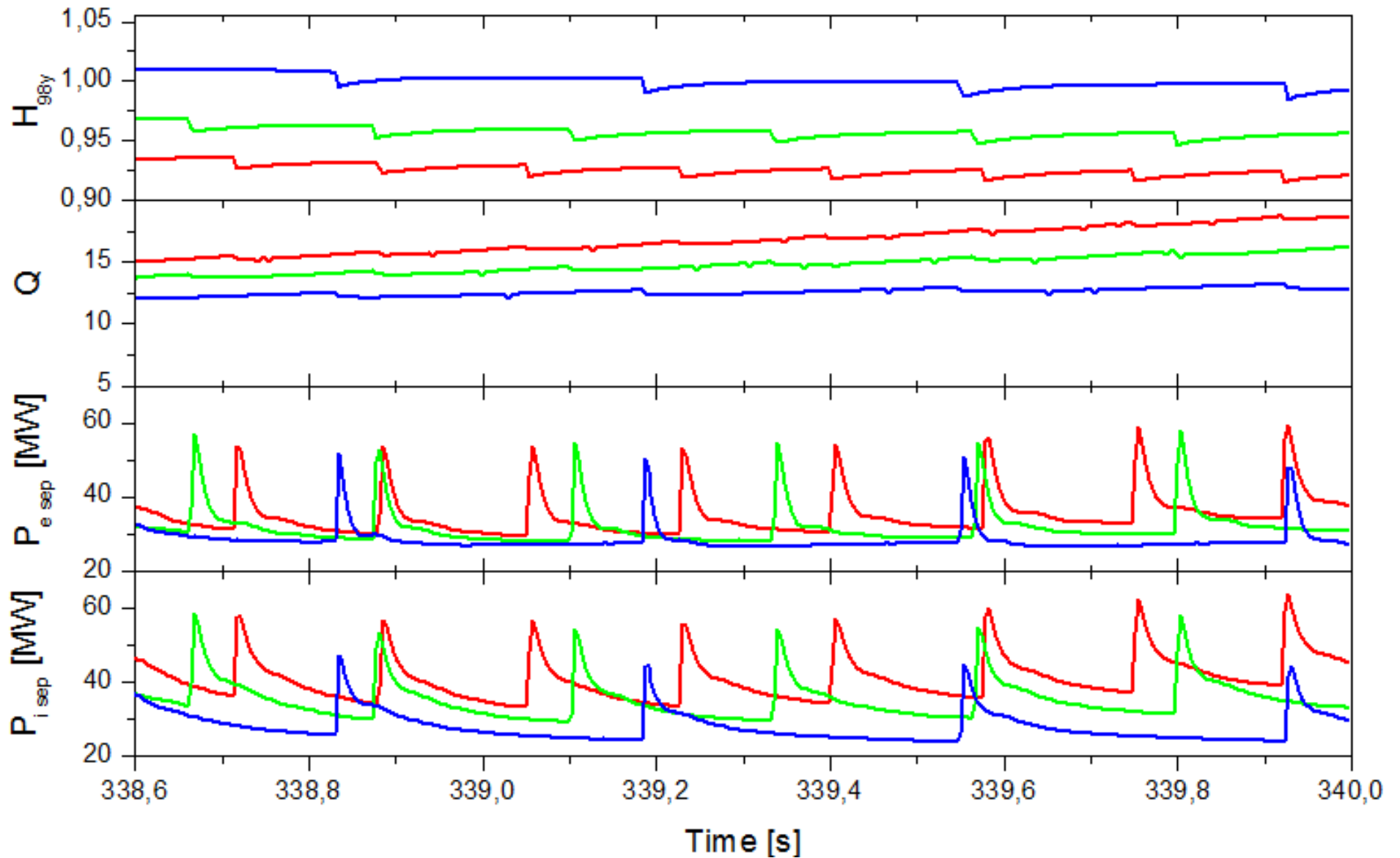


40 MW SOL radiation, 50% plasmoid drift



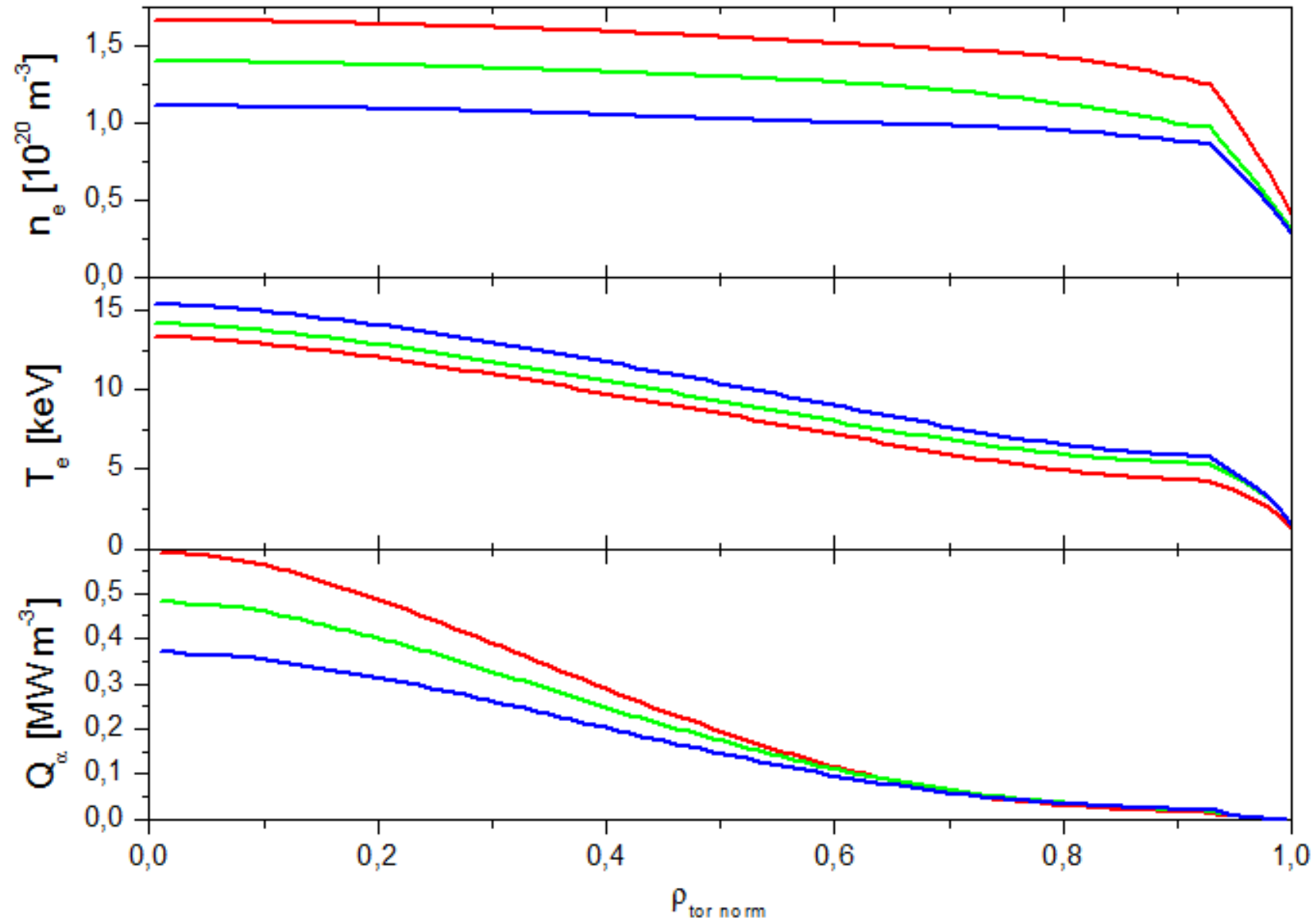
High / Medium / Low density

40 MW SOL radiation, 50% plasmoid drift



High / Medium / Low density

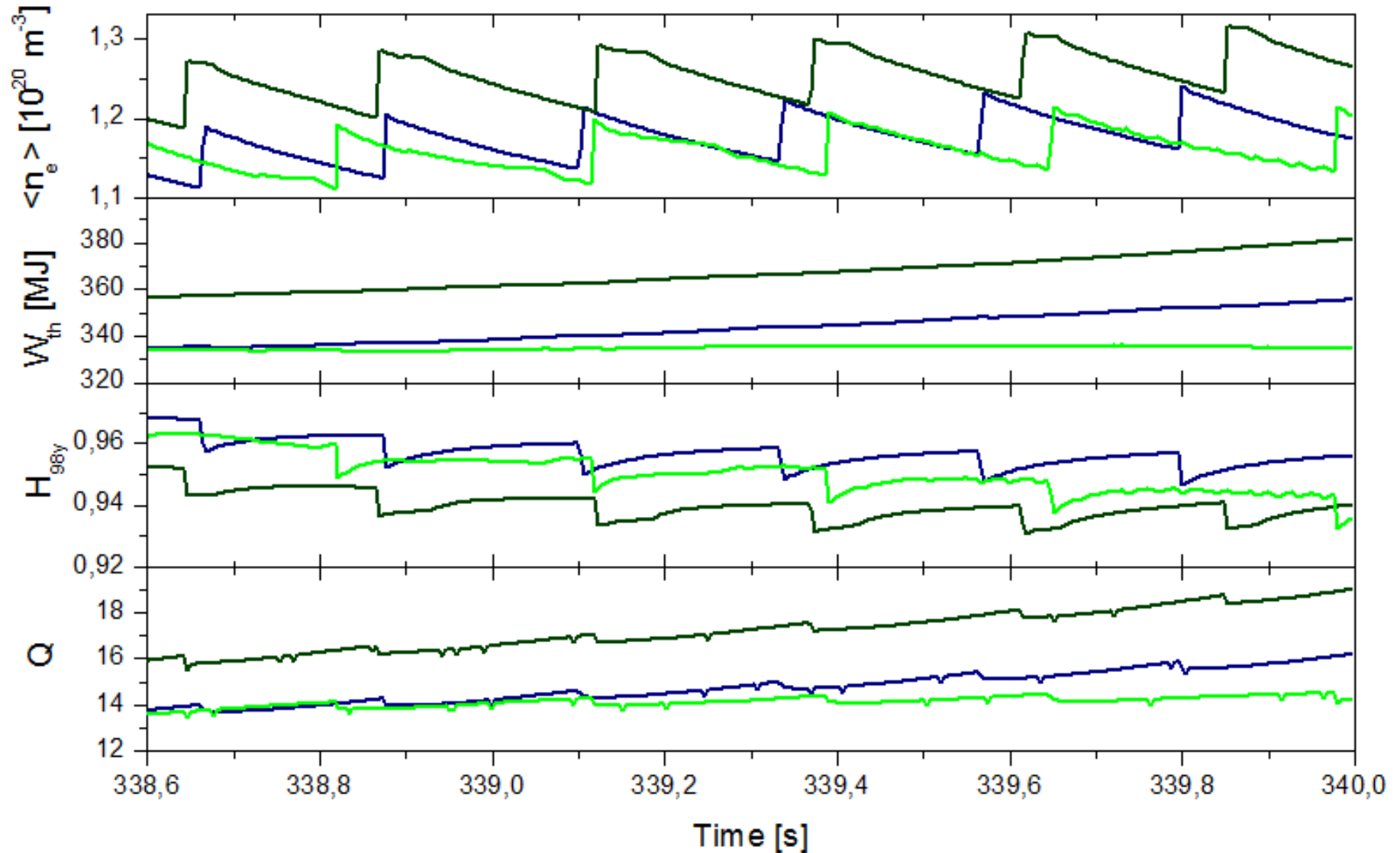
40 MW SOL radiation, 50% plasmoid drift



High / Medium / Low density

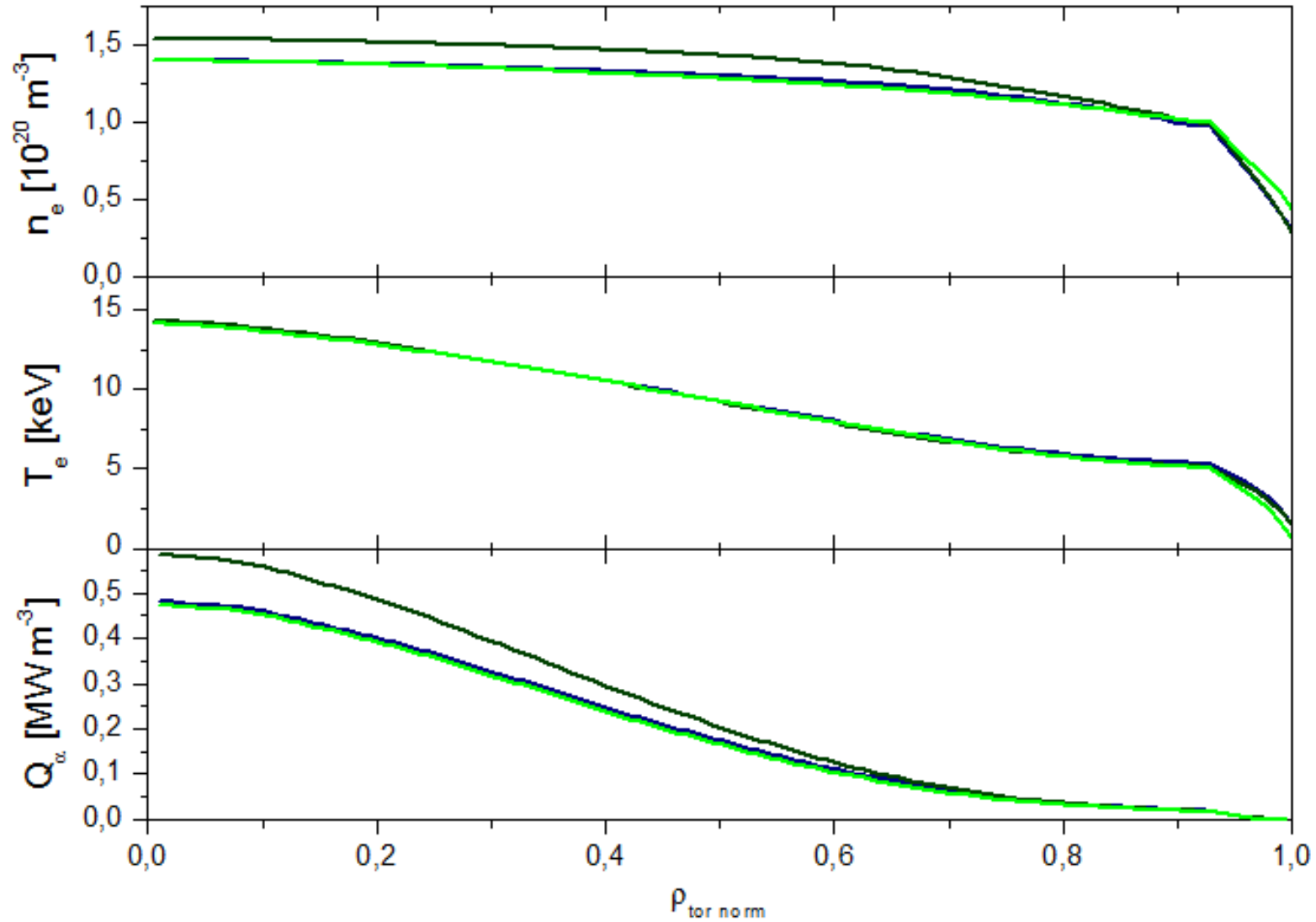
Medium density, cross-comparison

100% drift, 60 MW SOL rad.
50% drift, 60 MW SOL rad.
50% drift, 40 MW SOL rad.



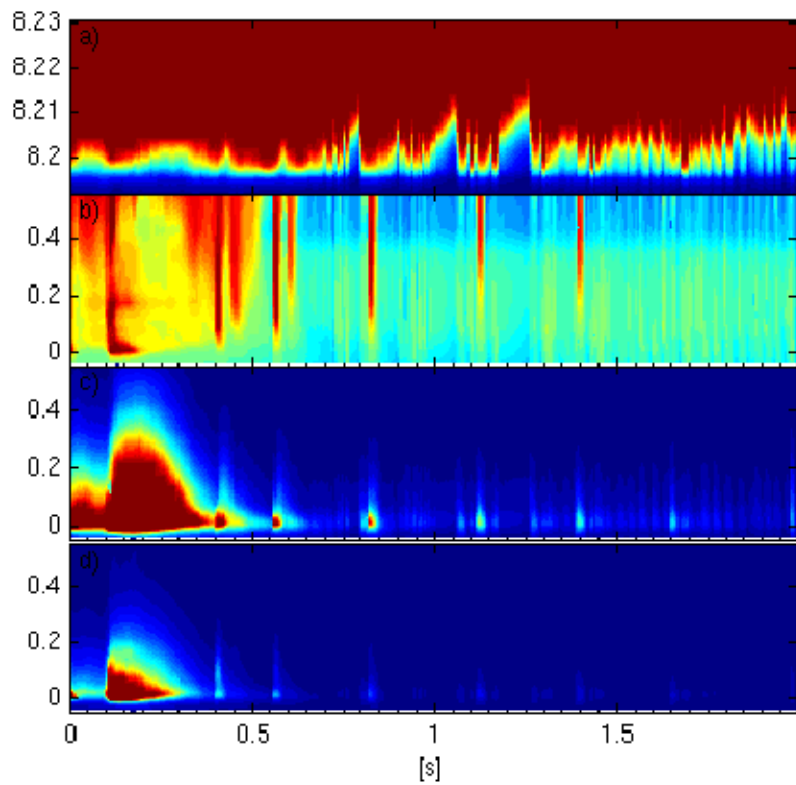
Medium density, cross-comparison

100% drift, 60 MW SOL rad.
50% drift, 60 MW SOL rad.
50% drift, 40 MW SOL rad.

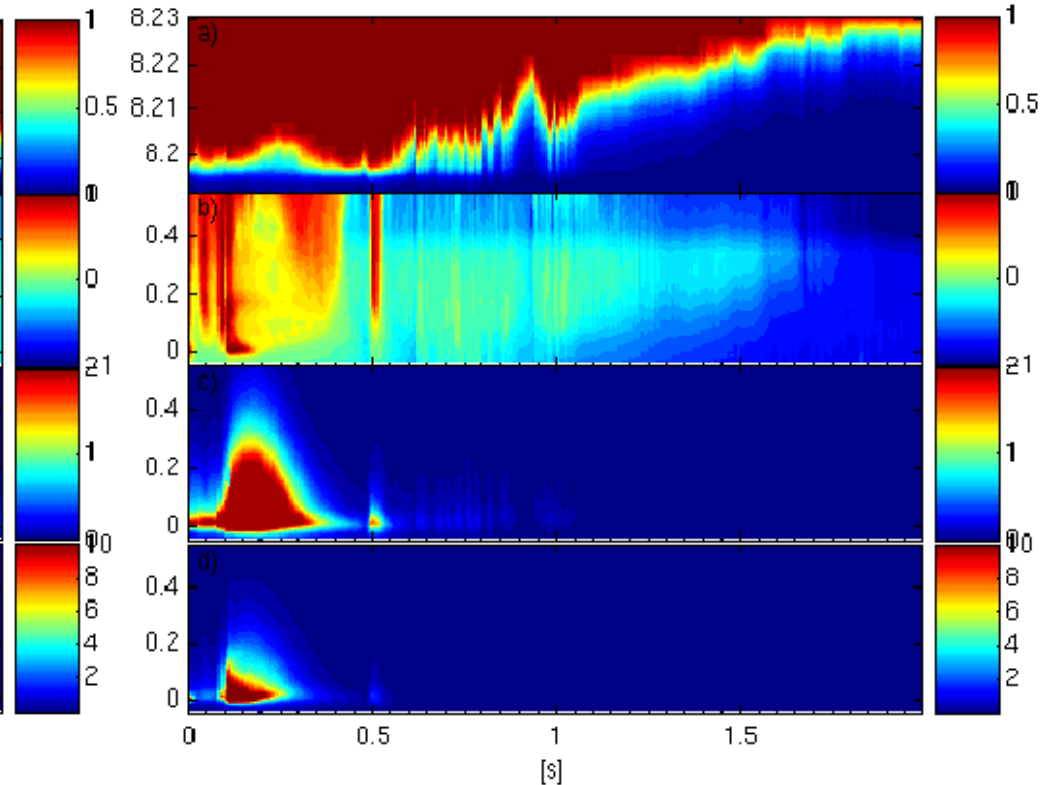


Divertor conditions:

Inner divertor legs:



Medium density



Low density

50% drift, 60 MW SOL rad.

To be done:

- Continuation of continuous pellet simulation
- Consideration of 40 MW scan
- Concluding remarks
- Send draft to ISM for internal review