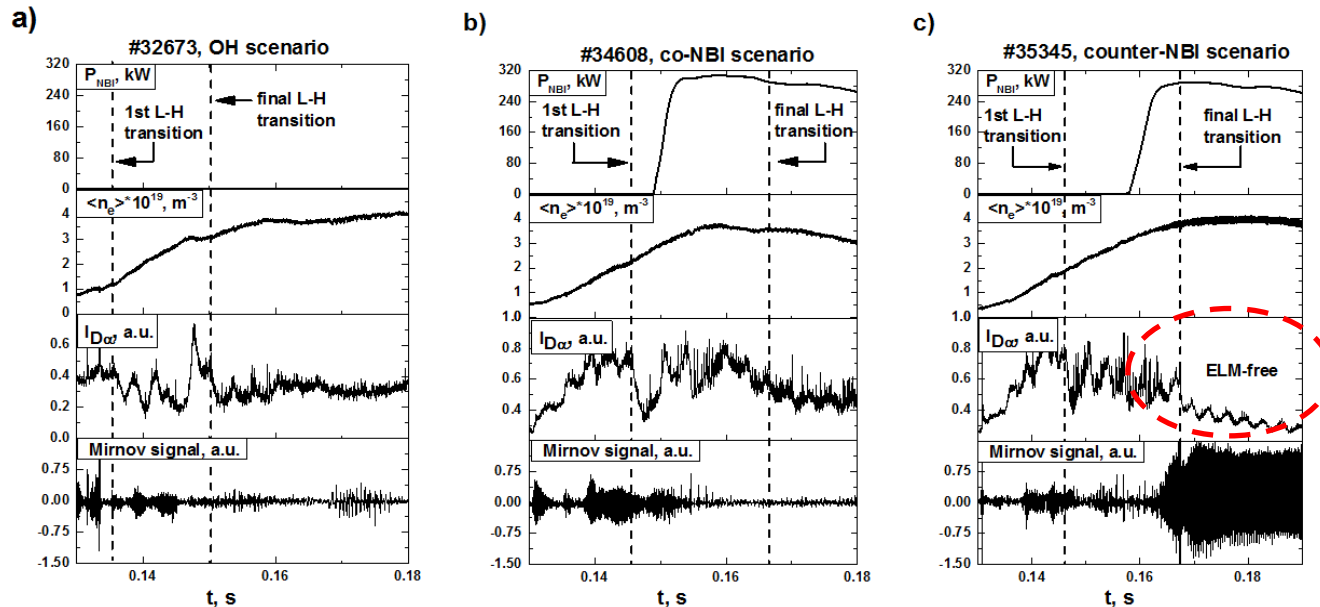


# Counter-NBI experiments on Globus-M (spherical tokamak)

- For the first time a high energy counter-NBI was applied on the Globus-M spherical tokamak.
- The ELM-free H-mode was obtained.



Typical waveforms of the NB power ( $P_{NBI}$ ), average electron density ( $\langle n_e \rangle$ ), equatorial  $D\alpha$  signal ( $I_{D\alpha}$ ) and Mirnov signal during the current plateau for the experiments with a: Ohmic plasma heating, b: co-NBI, c: counter-NBI.

- No significant confinement improvement as compared to ELMy H-mode was observed. This is due to a high level of the fast ion losses (up to 97%).