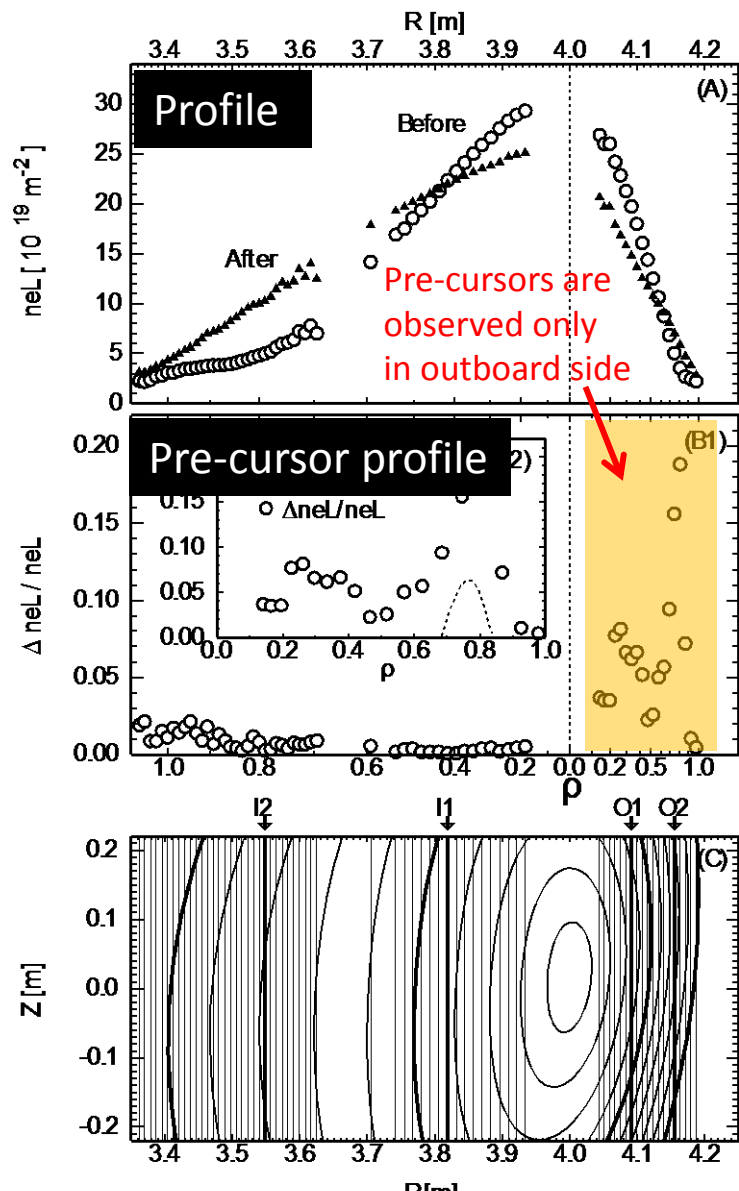


Observation of the ballooning mode that limits the operation space of the high-density super-dense-core plasma in the LHD

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High-density operation is one possible reactor scenario of helical confinement system. The increase of the central beta is limited by collapse event caused by the excitation of the **high-n ballooning mode**. By avoiding ballooning mode, the central beta reaches as high as **10%** in LHD.

