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Magnetic Perturbations vs Turbulence

GENE-3D simulations of Ion Temperature Gradient

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18:00 PRAGUE FEB 06

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Title: Magnetic Perturbations vs Turbulence

Speaker: Francis Albert, MSc - University of Ghent, Ghent (Belgium)

When: 2020-02-06 18:00:00

Abstract: One of the novel ways to suppress Edge Localized Modes (ELMs) is through application of external magnetic perturbations. Complete understanding of plasma response to magnetic perturbations is still lacking today and are needed for effective scaling of magnetic perturbations to future reactors like ITER and DEMO. It has been found experimentally during ELMs suppression that there is an increase in particle transport (density pump out) and turbulence localization at the plasma edge during the application of magnetic perturbations. To understand the role of turbulence behind these two observed phenomenon, recently developed GENE-3D tool is used for the first time to study the characteristics of Ion Temperature Gradient (ITG) turbulence during the application of magnetic perturbations in ASDEX Upgrade Tokamak.

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