


Turbulent transport analyses

in the inner core region of tokamak plasmas

Thursday, December 9th
19:00 Prague

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Title: Analysis of turbulent transport in the central part of high-confinement tokamak plasmas

Speaker: Neeraj Kumar

When: 2021-12-09 19:00:00

Abstract: One of the major goals of the ITER project is to demonstrate high fusion power gain in a tokamak. In ITER, metallic plasma-facing components are chosen for their low tritium retention and ability to sustain high heat loads. However, tokamaks operation with metallic plasma-facing components raises issues regarding the control of high-Z impurities since the accumulation of heavy impurities such as tungsten ($Z=74$) in the plasma core leads to significant radiation losses and deteriorates the energy confinement. Transport of tungsten (W) in the central part of ITER (r/a 0.3) and the central part remains relatively unexplored so far. The aim of this work is to advance our understandings of the dominant transport mechanism in the central region (r/a 0.3, where much of the work has already been done previously).

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