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Turbulent Transport and Coherent Structure Dynamics in Non-Stabilized Plasma at the Edge of the GOLEM Tokamak

## Abstract

Plasma turbulent transport is investigated at the edge of the GOLEM tokamak. In particular, measurements of ion saturation current fluctuations are performed by means of Langmuir probe. Plasma stabilization was not activated during discharges under study. Non-Gaussian behavior indicates the presence of coherent structures. Study of the radial dependence of statistical and temporal characteristics of fluctuations allows to conclude that non-elongated blob-like structures with comparable radial and poloidal size should govern the plasma transport at the edge of the GOLEM tokamak.

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