



Contribution ID: 397

Type: **Poster**

EX/7-2Ra: New Meso-scale Electric Fluctuations Interacting with Magnetic Islands and Turbulence in Edge Plasmas of HL-2A

Friday, 12 October 2012 08:30 (4 hours)

New meso-scale electric fluctuations (MSEFs), having two components of $n=0$ and $m/n=6/2$ potential fluctuations, are first identified in the edge plasmas of a tokamak. The MSEFs coexist and interact with the magnetic fluctuations with two components of $n=0$ and $m/n=6/2$ (magnetic islands). The MSEFs also coexist and interplay with turbulence and low frequency zonal flow. The MSEFs mainly modulate the turbulence of frequencies higher than 100kHz and lower than 200kHz.

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Session Classification: Poster: P7

Track Classification: EXC - Magnetic Confinement Experiments: Confinement