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

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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.

Country or International Organization of Primary Author

China

Primary author: Mr ZHAO, Kaijun (China)

Co-authors: Prof. FUJISAWA, Akihide (RIAM); Prof. DONG, Jiaqi (SWIP); Dr CHENG, Jun (RIAM); Prof. ITOH, Kimitaka (NIFS); Dr WEI, Lai (DUT); Dr YAN, Longwen (SWIP); Dr XU, Min (CMTFO); Prof. DIAMOND, Patrick.H (CMTFO, WCI); Dr LI, Qiang (SWIP); Dr YANG, Qw (SWIP); Dr INAGAKI, S (RIAM); Prof. ITOH, S-I (RIAM, KU); Prof. GEORGE, Tynan (CMTFO); Dr HONG, Wenyu (SWIP); Dr JI, Xiaoquan (SWIP); Prof. DUAN, Xr (SWIP); Prof. DING, Xuantong (SWIP); Dr NAGASHIMA, Y (RIAM); Dr LIU, Yi (SWIP); Dr HUANG, Yuan (SWIP); Dr WANG, Zhengx (DUT); Dr HUANG, Zhihui (SWIP)

Presenter: Mr ZHAO, Kaijun (China)

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