



Contribution ID: 651

Type: **Overview Poster**

OV/P-08: 20 Years of ISTTOK Tokamak Scientific Activity

Monday, 8 October 2012 14:00 (4h 45m)

The ISTTOK tokamak commissioning began in January 1990, after the establishment operating coincidentally with the signing of the EURATOM association agreement established with Instituto Superior in 1990 on the field of controlled nuclear fusion. In 1991 the first article have been issue in the Portuguese journal “Gazeta de Física” and the firsts scientific reports were mentioned to the international community on the 17th Symposium on Fusion Technology, Rome 1992.

This communication aims to present an overview of ISTTOK scientific activity since its commissioning in the main áreas of its activity, namely (i) Plasma diagnostics an in particular the Heavy Ion Beam (HIBD), (ii) AC current operations, (iii) plasma control, (iv) liquid metal limiters, (v) plasma fluctuation studies and (vi) study of fusion relevant materials.

The ISTTOK achievements demonstrate that small tokamaks can play an important role in the fusion plasma physics community as a result of their flexibility, high availability and good opportunity for the development of sophisticated diagnostics and technology tools.

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Session Classification: Overview Posters

Track Classification: OV - Overviews