

**HIGH CURRENT PRODUCTION WITH 2.45 GHZ ECR ION SOURCE**

A. Coly<sup>#</sup>, T.Lamy, T. Thuillier, UJF CNRS-IN2P3 INPG, Grenoble, France  
G. Gaubert, A. Villari, Pantechnik, Bayeux, France

*Abstract*

A new test bench has been installed at LPSC dedicated to 2.45 GHz ECR Ion Sources characterization. Several magnetic structures have been tested around the same plasma cavity. For example, a current density of

70 mA/cm<sup>2</sup> has been measured with the MONO1000 source lent by GANIL. An original ECRIS, named SPEED (for 'Source d'ions à aimants PERmanents et Extraction Dipolaire'), presenting a dipolar magnetic field at the extraction is also presented.

Paper not received

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<sup>#</sup> colyarona@yahoo.fr