HIGH CURRENT PRODUCTION WITH 2.45 GHZ ECR ION SOURCE
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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/cm² 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.