

Abstract Submitted
for the DPP12 Meeting of
The American Physical Society

Overview of RFX-MOD Fusion Science Program PIERO MARTIN,
MARIA ESTER PUIATTI, Consorzio RFX - Associazione ENEA-Euratom sulla fusione - Padova, Italy, RFX-MOD TEAM — The European RFX-mod reversed field pinch experiment is realizing a research plan, which aims at exploring the fusion capabilities of the RFP configuration in the 2 MA plasma current regime and at contributing to fusion physics development. This paper will report on the most recent developments in these areas. Key results have been obtained in lithization of the first wall through a number of techniques and in general on the issue of plasma-wall interaction, on active control of MHD stability both in RFP and tokamak configurations, on three-dimensional physics and on turbulence studies. New projects on upgrades of the feedback control system will be illustrated.

Piero Martin
Consorzio RFX - Associazione ENEA-Euratom sulla fusione - Padova, Italy

Date submitted: 18 Jul 2012

Electronic form version 1.4