

The Techno Fusion Spanish Project

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The Techno Fusion Facility is a project aimed at developing the know-how demanded by the extreme conditions under which materials will be working in future Fusion Reactors. It is based in Madrid and it represents a joint venture between the Spanish Ministry of Science and Innovation and the Madrid Local Government. Its budget, evenly shared by the two sponsors, is 100M€ for the next 10 years. It is composed by seven laboratories, each of them addressing different aspects of the material challenge. Among them, the Plasma Wall Interaction Laboratory will specialize in the study of material behaviour under the exposure to continuous, large particle and heat fluxes together with transient events similar to those produced by Type I Elms and disruptions in Tokamaks. In the seminar, an overview of the Techno Fusion Project will be given, and the characteristics and goals of the Plasma Wall Interaction Laboratory will be addressed.