



Contribution ID: 556

Type: **not specified**

P4.221 Experimental investigation of a Helium-cooled Breeding Blanket First Wall under LOFA conditions in view of code validation

Thursday, 20 September 2018 11:00 (2 hours)

The Helium Cooled Pebble Bed (HCPB) blanket concept is one of four EU DEMO (Demonstration Power Plant) blanket concepts currently under development. As part of the general strategy for the qualification of the design in view of licensing and operation, several experiments have been foreseen in to be carried out in the HELOKA facility at KIT.

This work presents the experimental results of a prototypical experimental set-up simulating a LOFA (Loss Of Flow Accident) in a helium-cooled Breeding-Blanket First Wall under typical heat-load conditions.

This work has been carried out within the framework of the EUROfusion Consortium and has received funding from the Euratom research and training programme 2014– 2018 under grant agreement No 633053. The views and opinions expressed herein do not necessarily reflect those of the European Commission.

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Session Classification: P4