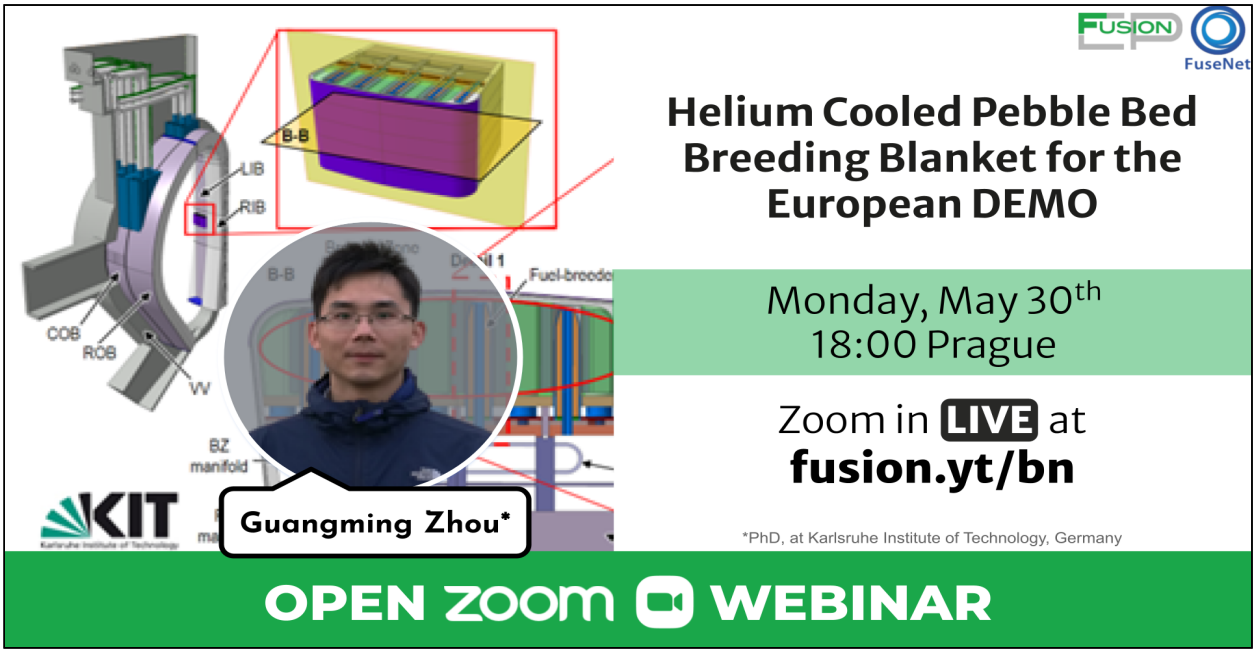

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Title: Helium Cooled Pebble Bed Breeding Blanket for the European DEMO

Speaker: Guangming Zhou

When: 2022-05-30 18:00:00

Abstract: In any Deuterium-Tritium fusion power plant, deuterium and tritium are the essential fuels. Deuterium is of great abundance and easy to recover from the seawater. On the other hand, tritium is radioactive and very scarce in nature. In the D-T fusion power plant, tritium has to be produced in the so-called breeding blanket, a component that is surrounding the plasma like a blanket. Breeding blanket has three main functions: tritium breeding, high-grade heat extraction and nuclear shielding. In Europe, there are two candidates of breeding blanket concepts that are being considered for the European DEMO power plant: the Helium Cooled Pebble Bed – HCPB and the Water Cooled Lithium Lead – WCLL. In this talk, the status of the design and R&D activities of the HCPB breeding blanket will be presented. This talk concludes with outlook and future activities.

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