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Engineering Design Modules on CFETR Integration Design Platform

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China Fusion Engineering Test Reactor (CFETR) integration design platform, which is intended to provide a unified environment to integrate physical and engineering design for future reactor-level fusion device, is now under development. It includes a physical design platform and various engineering design modules, such as vacuum vessel, divertor, toroidal/poloidal field coil, blanket, thermal shield, and neutronics, together with a standard material and design criterion database. Based on the experience of engineering design, the workflow and data flow of each engineering module are determined. Then, the interfaces within and among modules are implemented and used to integrate different modules into a complete framework. The interference check among modules is adopted in order to maintain the self-consistency of device design. The details of modules will be present in this conference.

Eligible for student paper award?

No

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