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## Developpement and Validation of extented two-phase computational fluid dynamics model for analysis of boiling flow in reactor fule assemblies

This paper presents recent advances in the development and integral validation of a two-phase Computational Fluid Dynamics (CFD) computer model (CFDBWR) that allows the detailed analysis of the two-phase flow and heat transfer phenomena in Boiling Water Reactor (BWR) fuel bundles. The CFD-BWR code is being developed as a customized module built on the foundation of the commercial CFD-code STAR-CD which provides general two-phase flow modeling capabilities.

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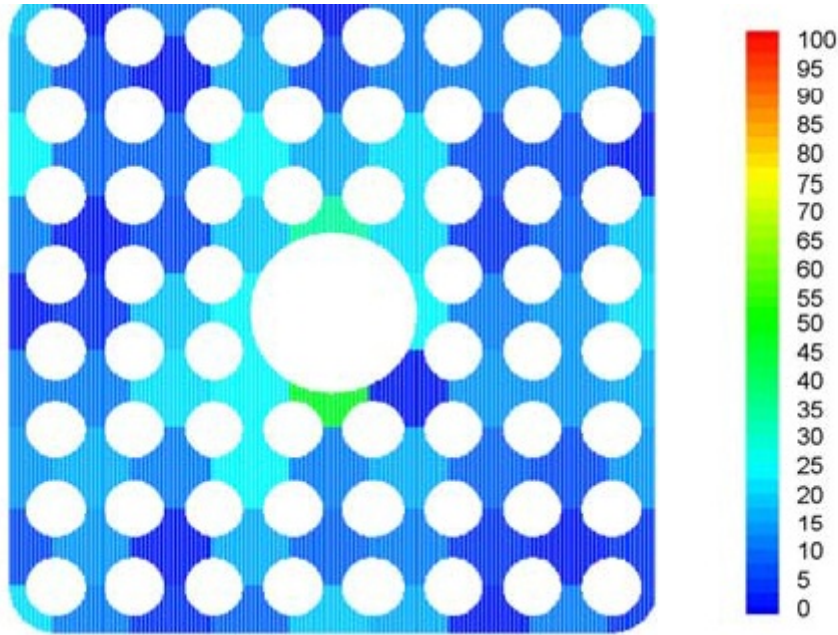
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