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Fuel Thermomechanical modelling with Falcon at PSI

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The EPRI code FALCON MOD01 has been used at PSI for about two decades for both research purposes and safety analyses, and is still undergoing developments. Namely, its coupling to the advanced fission gas release and swelling module (GRSW-A) module allowed the developments of several methodologies such as void formation by high temperature restructuring and burst fission gas release in RIA conditions. Besides, PSI is co-developer of the newer version of the code Falcon V1. In this respect, the FALCON MOD01 developments can be transferred to the newer version. In addition, other aspects are directly treated such as H-uptake or implementation of behavioral models for several ATF concepts in order to assess their performance.

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