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## **Development and characterisation of diagnostical components located in vacuum vessel under thermal fatigue cycles**

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In this paper we aim to reveal methods that can decrease the time spent on the mechanical elements development increasing the efficiency of the process. The challenge in this scheme is the optimization of a large number and variety of components in the ITER diagnostic system. During our work we compared the engineering requirements with the specific requirements of a fusion power plant.

Our goal is to create a method that survey complex demands, accomplish evaluation and the final integration of the inspected mechanical design.

**Author:** SZALAI, Judit (Budapest University of Technology and Economics (HU))

**Presenter:** SZALAI, Judit (Budapest University of Technology and Economics (HU))

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