



**Understanding the plasma with integrated modelling**

Tuesday, March 15<sup>th</sup>  
18:00 Prague

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**Title:** Understanding the plasma with integrated modelling

**Speaker:** Michele Marin

**When:** 2022-03-15 18:00:00

**Abstract:** Accurately reproducing the plasma dynamics requires complex simulations, which can take considerable computing resources. Reduced models can greatly speed up the process, but this comes at the cost of assumptions and simplifications. Therefore, these faster models need to be carefully validated and compared with other codes and with the experiments. Integrated modelling is a technique that evolves a number of the tokamak subsystems at the same time, improving consistency and easing the comparison with experiments. The talk includes integrated modelling, its validation cycle and examples of applications.

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