

CORTEX

Core monitoring techniques and
experimental validation and demonstration

Questions and wrap-up

Final CORTEX workshop

Online

Christophe Demazière – Chalmers University of Technology

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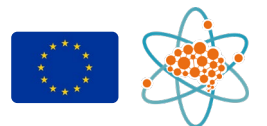
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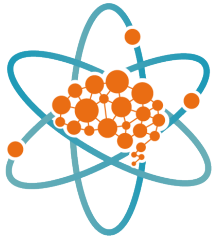


This project has received funding from the Euratom research and training programme 2014-2018 under grant agreement No 754316.

Wrap-up

- Successful demonstration of tools for operating commercial reactors using neutron noise:
 - Contribution of different phenomena to “normal” noise behaviour
 - Identification of additional anomalies
- This is based on:
 - Pre-calculation of the neutron noise for postulated scenarios
 - Large database of new and existing measurements of different PWR
 - Intelligent processing of the neutron detector signals
 - Efficient AI-based unfolding architectures





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