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ITER data infrastructure and mapping of experimental data and machine description into a shared data format.

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The ITER Data Model has been created to allow for a common data representation to be used by codes simulating ITER relevant physics. A suite of tools has been created to leverage this data structure called the Integrated Modelling & Analysis Suite (IMAS). As part of an exercise to utilise these tools for existing codes on existing experiments data mappings have been created to transform signal and machine description data from each machine's respective data archive and file formats into a common IDS repository. This has allowed for disparate data sources to be collated and codes to be run across different experiments.

This poster will present the current state of the ITER data structure and related data access technologies (IMAS) as well as describe the work that has been done under Eurofusion WPCD (wpcd-workflows.github.io) to allow for the transformation and access of the data archives of existing experiments via the ITER architecture. It will display some of physics codes that have been updated to allow them to be run on data from any of these mapped data and the results of these simulations.

Consider for promotion

No

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