

Consultancy Meeting on Information Exchange on Developments and Operations of Nuclear Data Dissemination Services

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1. Modernisation of the NDS website / 2. New and modernised databases (Stopping Powers and IDB)

Monday, 15 January 2024 14:30 (1 hour)

1. Modernisation of the NDS website
2. New and modernised databases (Stopping Powers and IDB)

This contribution presents an approach towards creating a repository for nuclear data collections and services that implements the FAIR (Findable, Accessible, Interoperable and Reusable) principles. The proposed platform provides an integrated environment for data collections, resources, and services to support the worldwide nuclear science and technology community. The repository is designed to organize different type of resources in a structured way and to provide a unified access point to all the heterogeneous collections that the Nuclear Data Section (NDS) hosts. The repository is implemented using a hybrid approach, where the core part of the system is based on the Invenio RDM framework. This part integrates with existing NDS and IAEA services, as well as with several newly built micro-services that implement specialized nuclear data retrieval and visualization products. In addition, the platform provides a secure and reliable environment to store and preserve nuclear resources. The presentation will provide a detail description of the underlying platform, Invenio RDM, for participants to see if this could be a good fit for some of their use cases.

The second presentation gives an overview of the current infrastructure powering the NDS website and services, security tools, version control and monitoring of availability. It will include a demo/walk-through of two new/modernized databases, implemented using the Django framework.

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