

NEA Frameworks for International Collaboration on Nuclear Data

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NEA and NEA Data Bank

The NEA is essentially a secretariat that provides support to various committees (e.g. NSC), working parties (e.g. NSC WPEC) and expert groups (~ WPEC SG) working as forums for sharing information and experience and promoting international co-operation. See www.oecd-nea.org/nea.

The NEA Data Bank is a Data Centre that essentially provides Computer Programs, Integral Benchmarks and Nuclear Data services, as well as secretariat and (limited) technical support to JEFF. See www.oecd-nea.org/databank.

The Joint Evaluated Fission and Fusion File

JEFF is hosted by the NEA Data Bank (DB).

The objective of JEFF is to develop/maintain a reference library to be used by DB member countries.

Contributions from France, UK, Netherlands, Germany, EC-JRC, Spain, South Korea, IAEA...

Participation is on a voluntary basis, e.g. Japan is not participating.

NSC / WP on Int. ND Evaluation Cooperation

WPEC is a WP of the NEA Nuclear Science Committee (NSC). Participation is on a voluntary basis.

WPEC provides a forum to exchange information and a framework for cooperating activities between evaluation projects: ENDF, JEFF, JENDL, BROND, CENDL and IAEA's.

The main objectives of WPEC are to improve the quality and completeness of evaluated files, and disseminate how-to.

The CIELO Pilot Project (SG40) is challenging compared to previous “similar” SG (e.g. [SG18](#), [SG22](#), [SG23](#), [SG34](#)) but this is still inline with WPEC mandate/objectives.

NEA Joint Projects

A WPEC SG is fine for a Pilot Project as SG40-CIELO or as a long-term framework to deal with a few isotopes, but it is not appropriate for a larger evaluation project.

Assuming member countries want to go a step further, NEA joint projects are interesting. These are separately funded projects that enable interested member countries, on a cost-sharing basis, to pursue research and share data.

Participation to joint projects is handled through formal agreements.

Perspectives on the Pilot Project and beyond

The role of CIELO in the context of NEA activities

- SG40 Pilot Project is a “relatively” small step in the continuity of usual international collaborations (WPEC SGs, IAEA CRPs, etc.)
- An actual CIELO Project would be a huge step forward with new framework and method, and obvious overlap with JEFF needs attention

The contributions NEA expect from CIELO

- Same as WPEC+JEFF, i.e. develop/maintain a peer-reviewed reference libraries and disseminate how-to

The contributions NEA can commit to CIELO

- Secretariat of course
- (perhaps) Project coordination if agreed by member countries
- (limited) Technical contributions through Data Bank