

# WPEC Subgroup 43

#### Mandate

Code infrastructure to support a general nuclear database structure to aide in international adoption.

### Needs:

- An Application Programming Interface (API) for reading and writing data in GNDS
- Checking codes to help validate new evaluations

https://github.com/GeneralizedNuclearData/SG43

## **Physics Checking**

- Develop list of physics rules to check
- Adopt severity levels and specify their meaning
- Develop standardized way of reporting errors

## **API** Design

- API vs. implementation
- Begin initial API details
- Begin with low-level API to abstract away file details
- Establish naming conventions

- 1. Prioritize list of physics rules
- 2. Write just enough API/implementation to be able check first 2–3 rules
- 3. Write checking code that uses API/implementation to perform first 2–3 checks
- 4. Checking code success/failure will inform how well API/implementation is fulfilling needs.
- 5. Repeat ad nauseam