Visualization of data with Fulcrum

- Plot continuous-energy (CE) cross sections over multi-group (MG) cross sections MG
  - (H in H₂O, ²³⁵U, and anything else participants ask for)
  - Look at table of MG cross sections
- Plot MG scattering matrices
- Covariance library (show diagonal) and pretty plots (correlation)
- Compare ENDF/B releases (cross sections and covariances)
Printing, filtering, selecting data with AMPX utilities

- Input generation: Exsite GUI

1. **Library comparison:**
   - AmpxDiffer: command line tool for MG library comparisons
   - CovComp: module to compare covariance libraries

2. **Library interrogation:**
   - Rade: Check MG library
   - PaleAle: Print data from MG library (XS, Scattering Matrices, Bondarenko Factors, ...)

3. **Library filtering:**
   - Filter: Filter MG library for specific data types (neutron, gamma, Bondarenko, etc.)
   - Ajax: Merge, select, reorder specific nuclides on MG library

4. **Standard composition:**
   - Compoz: Modify and print standard composition library
Data interrogation with OBIWAN

- **OBIWAN** (**ORIGEN** Binary Interrogation **Without** A SCALE iNput)

- Interrogation of ORIGEN libraries
  - F71: ORIGEN concentration library
  - F33: ORIGEN cross section library (1-group cross sections, transition matrix)

- Libraries (F33 viewing)
  - Viewing
  - Patching
  - Diff-ing
  - Converting

- State sets (F71 viewing)
  - Viewing
  - Diff-ing
Conclusion

• Questions?
• Anything else you want to see?