

- We investigate the calibration of the uncertainties of thermal scattering of ZrH_x in the fuel material in TRIGA reactor simulations.
- We establish a more general calibration framework for the phonon spectrum of ZrH_x
- Simulations using data generated with calibrated parameters show that uncertainties of the Quantities of Interest shrink over 50%. More
- Spectra calibrated at 600K reactor temperature appear to be valid at room temperature.