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Impact of the temperature dependent lattice constants and extinction on k_{eff}

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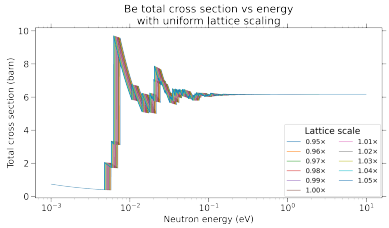
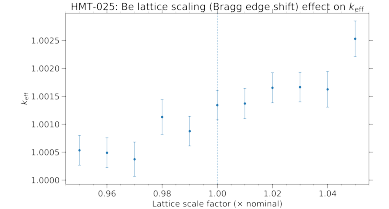
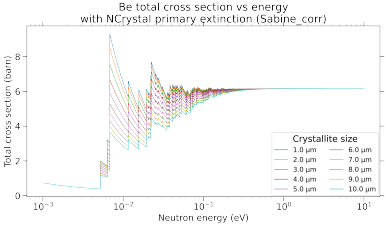
OpenMC + NCrystal calculations: HMT-025

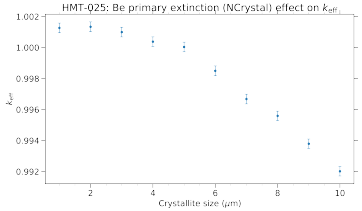
- Effect of the temperature lattice constant scaling (i.e. bragg edge temperature dependence, typical change $\approx$ + 1.5 %):





- Effect of the extinction (typical extinction effective crystallite size 1-3 μm:





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