



Contribution ID: 172

Type: Poster

Structure relations in the family of the solid solution $\text{Hf}_x\text{Zr}_{1-x}\text{O}_2$

Wednesday, 16 March 2022 18:44 (1 minute)

Hafnium Zirconium Oxide $\text{Hf}_x\text{Zr}_{1-x}\text{O}_2$ comprises a large variety of symmetrically related phases that were reported experimentally or theoretically. The symmetry reductions are hierarchically presented in a Bärnighausen-like tree that was extended for *reconstructive* transitions characterising severe atomic shifts. A method is presented explaining how to identify corresponding reflections of a structure before and after a phase transition.

Primary author: NENTWICH, Melanie (DGK)

Presenter: NENTWICH, Melanie (DGK)

Session Classification: Postersession

Track Classification: Main conference: Solid State Physics and Crystal Physics