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

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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.

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