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Na₇RbTl₄: New Ternary Alkali Metal Thallide including Tl₄(8-) tetrahedra

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On our poster we present the crystal structure and structure determination of Na₇RbTl₄, the first ternary phase in the ratio A:Tl 2:1. Na₇RbTl₄ yet is only the second known thallide which exclusively contains isolated Tl₄⁸⁻ Zintl anions beside the long-known Na₂Tl reported by Hansen and Smith in 1967. During structure solution and refinement pseudomerohedral twinning was considered.

Primary author: SCHWINGHAMMER, Vanessa

Co-authors: GÄRTNER, Stefanie (Institute of Inorganic Chemistry, University of Regensburg); JANESCH, Melissa (University of Regensburg)

Presenter: SCHWINGHAMMER, Vanessa

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