



Contribution ID: 111

Type: **Young Crystallographers Lightning Talks(+poster)**

Finite and Infinite Chains of Heavy-Atom Clusters

Tuesday, 15 March 2022 15:39 (5 minutes)

During the search for novel topological insulators, new fully and partially substituted pseudo one-dimensional compounds were discovered. Extensive investigations into the synthetic pathway via differential scanning calorimetry lead to the two subiodides of the type $\text{Bi}_2[\text{PtBi}_6\text{I}_{12}]_3$ being isolated and synthesized independently. The six weak inter-cluster bridges between the strands, in combination with the strong spin-orbit coupling, could lead to interesting non-trivial topology.

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Session Classification: Young Crystallographers Lightning Talks

Track Classification: Young crystallographers Lightning Talks