



Contribution ID: 33

Type: **Poster**

## High-pressure crystal structures of Wadsley-type vanadium oxides V<sub>2</sub>O<sub>5</sub> and V<sub>6</sub>O<sub>13</sub>

*Tuesday, 15 March 2022 16:18 (1 minute)*

Binary vanadium oxides have attracted considerable attention due to their electronic and magnetic properties. We studied V<sub>2</sub>O<sub>5</sub> and V<sub>6</sub>O<sub>13</sub>, two members of the Wadsley phase series, under high pressure with single crystal diffraction in diamond anvil cells and under HP-HT conditions in situ using a multi anvil press.

**Primary author:** HAKALA, Viliam (Forschungszentrum Jülich GmbH)

**Co-authors:** MANOUSOU, Dimitra (National and Kapodistrian University of Athens); FRIESE, Karen (Jülich Centre for Neutron Science, Research Centre Jülich); GLAZYRIN, Konstantin (Deutsches Elektronen-Synchrotron (DESY)); CRICHTON, Wilson A. (European Synchrotron Radiation Facility); GRZECHNIK, Andrzej (RWTH Aachen)

**Presenter:** HAKALA, Viliam (Forschungszentrum Jülich GmbH)

**Session Classification:** Postersession

**Track Classification:** Main conference: Structure property relationships