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Pressure induced phase transitions studies using advanced synchrotron techniques HAOZHE LIU, LISA LIU, JINGGENG ZHAO, Harbin Institute of Technology, HIT OVERSEAS COLLABORATIVE BASE AT ARGONNE COLLABORATION — In this presentation, the joint effort on high pressure research through program of Harbin Institute of Technology (HIT) Overseas Collaborative Base at Argonne will be introduced. Selected research projects on pressure induced phase transitions at room temperature and high/low temperature conditions, such as A₂B₃ type topological insulators, iron arsenide superconductors, piezoelectric/ferroelectric materials, ABO₃ type single crystals and metallic glasses, will be presented. Recent development on imaging and diffraction tomography techniques in diamond anvil cell will be reviewed as well.

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