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## Impact of Swift Heavy Ion Irradiation on Bismuth Nanowires and its Phase Transitions

*Wednesday, 16 March 2022 10:00 (20 minutes)*

GeV ion irradiation and high static pressures are combined in order to investigate ion-induced structural changes on pressure-induced phase transitions in nano-materials. We introduce the synthesis of bismuth nanowires and discuss beam-induced morphological and structural changes. Moreover, the technical capabilities of the GSI ion accelerator and a novel experimental setup developed for the irradiation of samples pressurized inside diamond anvil cells (DACs) will be presented.

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