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Cryogenic commissioning of UCN source at PULSTAR

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Recently we completed cryogenic commissioning of the UCN source at PULSTAR reactor, located at NC State University campus. As part of the commissioning, we have studied growth of a solid deuterium crystal in situ using external camera and temperature probes. In addition, we did simulation of the pulsed heat input into walls of the cryostat, to simulate condition typical for the pulsed UCN sources.

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