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Type: **Talk**

## Prospective isomeric studies with high-brilliance gamma beams

*Tuesday, 3 May 2022 12:00 (15 minutes)*

Several aspects of the ELI-NP research program related to isomeric studies will be presented, namely, population of isomers and decay studies in  $\gamma$ -beam activation experiments, studies of doorway states for population or depopulation of isomers in  $\gamma$ -beam experiments and measurements of photofission product yields.

The possibilities for generation of  $\gamma$  beams with orbital angular momentum (OAM) will be discussed and the new opportunities for isomeric studies with OAM photons will be highlighted.

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**Session Classification:** Atomic-Shell Nucleus Interface,  $^{229}\text{Th}$ , Symmetries, etc.