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## Can nuclear physics solve the "missing gold problem" in the evolution of Galaxy?

Tuesday, 30 July 2024 10:00 (30 minutes)

Understanding neutron-rich unstable nuclei is crucial for investigating the r-process nucleosynthesis. In particular, the  $\beta$  decay of the N=126 isotones is decisive for the production of the third peak, including gold and platinum. In this talk, based on nucleosynthesis uncertainty calculations, I will discuss the possibility of addressing the "missing gold problem" in the galactic chemical evolution study by improving the  $\beta$ -decay half-live of N=126 nuclei.

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