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**Seminarium Zakładu Energetyki Jądrowej i Analiz Środowiska (UZ3)**

**Departament Badań Układów Złożonych (DUZ)**

Wtorek: **21.06.2022**

 **11:30**

**dr hab. Jacek Rzadkiewicz, prof. NCBJ**

**Nuclear Excitation by Electron Capture in Resonant Transfer Process**

**Abstract**:

I will discuss research on Nuclear Excitation by Electron Capture in Resonant Transfer (NEEC-RT) that is the inverse process of nuclear internal conversion. After a short introduction on nuclear isomers, I will discuss the attempts to observe the NEEC process carried out over the last several decades. Then I will present the first experimental demonstration of NEEC resulting in depletion of the 93mMo isomer at 2425 keV, 21/2+, T1/2=6.85 h (*Nature 554, 216, 2018*). Finally, I will present attempts of more or less successful theoretical descriptions (including that presented in *Phys. Rev. Lett. 127, 042501, 2021*) and plans for further research.

Serdecznie zapraszamy

M. Dąbrowski, T. Kwiatkowski

<http://www.phd4gen.pl>