

## Recent results and perspectives of DESPEC

*mercredi 1 février 2023 14:40 (20 minutes)*

Recently the DESPEC nuclear spectroscopy campaign started at the SIS/FRS facility at GSI as part of the FAIR/NUSTAR Phase-0 program. It aims at the investigation of exotic heavy nuclei produced in fragmentation reactions employing detectors and instrumentation developed for the FAIR facility. An important aspect of the program is the training of students and young researchers in the field. Despite the Covid-19 pandemic, a novel fast-timing spectroscopy set-up has been commissioned and first experiments have successfully been performed. Physics topics include the evolution of the shell structure around  $^{100}\text{Sn}$ , basic decay information of n-rich isotopes at  $N=126$  below  $^{208}\text{Pb}$  and octupole correlations of n-rich actinide isotopes. Novel experimental techniques and first results will be presented.

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**Classification de Session:** Session 11: Results from DESPEC, CARIBU and JYFL