

SEASTAR Status report on ^{66}Cr and $^{70,72}\text{Fe}$

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During the first SEASTAR campaign last spring, in-beam spectroscopy of very exotic nuclei via proton-knockout reactions were successfully performed with the coupling of DALI2 with the new MINOS device. The use of a thick 100 mm liquid hydrogen target with a Time Projection Chamber allowed an increase of luminosity while maintaining a Doppler correction as good as with a thin target thanks to the reconstruction of the interaction vertex. Among others, the first spectroscopy of ^{66}Cr and $^{70,72}\text{Fe}$ was obtained by (p,2p) and (p,3p) knockout. We will report on the status of the analysis and discuss the collectivity of neutron-rich nuclei beyond $N=40$.

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