

## Ideas for the next PAC

*Friday, 28 July 2023 14:10 (20 minutes)*

The Atomki group would like to propose two ideas for the next PAC. (1) Shape evolution of proton-rich nuclei beyond the  $N=Z$  line, (2) study of sulfur and silicon isotopes reaching the neutron drip line.

Specifically, we intend to propose to investigate the proton and neutron distribution in  $^{58}\text{Zn}$ ,  $^{62}\text{Ge}$ , and  $^{66}\text{Se}$  as well as the matter deformation in  $^{52}\text{Ni}$ ,  $^{56}\text{Zn}$ , and  $^{60}\text{Ge}$ . For the neutron-rich nuclei, we plan to map the low-lying states of  $^{46,47,48}\text{Si}$  as well as that of the  $^{43,44}\text{Si}$  isotopes.

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