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Shell model calculations along $Z=28$ and $N=50$ shell closures

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Recent progress in experimental techniques allows to study very exotic systems like neutron rich nuclei in the vicinity of Ni78.

The spectroscopy of this region can be nowadays studied theoretically in the large scale shell model calculations.

In this talk, I will report on the shell model developments leading to a unified description of neutron-rich nuclei between $N=40$ and $N=50$.

In particular, I will discuss the evolution of the $Z=28$ and $N=50$ gaps as well as comment on the rigidity of neutron-rich Ni78 and proton-rich Sn100 nuclei.

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