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Proton-neutron interactions around double-magic 58Ni and 78Ni

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Nuclei with two-proton and two-neutron holes and particles will be studied in order to get a better understanding of the proton-neutron interactions. The nuclei and properties aimed at include: (i) around 56Ni: 56Zn (2+ energy), 58,60Zn (B(E2) transition strength), and (ii) 82Zn (2+ energy and possibly B(E2), 80Zn (B(E2)) and possibly 74Fe.
The nuclei around 56Ni and 78Ni will be populated using the primary beams 78Kr and 238U, respectively.

Summary

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