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Study on tensor correlation in neutron-rich nuclei via (p,pd) reaction

Tensor interaction and associated correlation play primary roles in understanding the nuclear structure and thus attracts much attentions in both experimental and theoretical studies in modern nuclear physics. Recently, (p,pd) reaction at high energy is found to be a powerful tool to study tensor correlation in proton-neutron pairs [1]. In the present study, we would like to investigate the tensor correlation in neutron-rich system by using the (p,pd) reaction at high energy with the beams of 10,12Be. In the presentation, the physics motivation and experimental feasibility will be discussed.

[1] S. Terashima et al., Phys. Rev. Lett. 121, 242501 (2018).

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