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Étude des corrélations neutron-neutron dans le noyau de ^{12}Be

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The very interesting nucleus of ^{12}Be is studied using the proton knock-out reaction on ^{13}B at GSI. This reaction populates both bound and unbound states in ^{12}Be . The experimental set-up is a combined detection of gamma, neutron and charged fragments with good efficiencies.

The inverse kinematics method was used to reconstruct the decay energy and we can study decay modes of the states in ^{12}Be . Moreover, some of the states are above the $2n$ emission threshold and are then pair emitters. neutron-neutron correlation are investigated using the method of Dalitz plots.

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