

## Investigation of spectral properties of $^{11}\text{Be}$ in breakup reactions

We investigate the breakup of the  $^{11}\text{Be}$  halo nuclei on a light target ( $^{12}\text{C}$ ) within quantum-quasiclassical approach in a wide range of beam energy (5–67 MeV/nucleon) including bound states and low-lying resonances in different partial and spin states of  $^{11}\text{Be}$ . The obtained results are in good agreement with existing experimental data at 67 MeV/nucleon. We also demonstrate that the developed computational scheme can be used for investigation of nuclei spectral properties in low-energy breakup experiments on different targets.

### Section

Nuclear physics (Section 1)

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