

Study of low-lying resonance states in the break up of ^{11}Be

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We investigate the Coulomb breakup of the ^{11}Be halo nuclei on a heavy target at intermediate (70 MeV/nucleon) energies within non-perturbative time-dependent approach. The convergence of the computational scheme is demonstrated in all considered range of the energy including the low-lying resonances $\textit{n}+^{10}\text{Be}$ in different partial and spin states of ^{11}Be . The obtained results are in good agreement with experimental data at 69 and 72 MeV/nucleon.

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