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Abstracts book

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Abstract ID : 452

The theoretical study of the halo nucleus of 11Be

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In this work, the energy levels of the halo nucleus of 11Be are calculated, taking into account the effect of an external magnetic field. The 11Be nucleus is regarded as a neutron halo consisting of 10Be core and one neutron. Also the root-mean-square radius of the 11Be nucleus is numerically calculated in the ground state. This work is the initial stage of the work on the investigation of the breakup of halo nuclei in the quantum-mechanical approach.

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Track classification : Theoretical Physics

Contribution type : Oral

Submitted by : Mr. VALIOLDA, Dinara

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