

Neutron removal from deformed ^{31}Ne

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Experimental data on Coulomb breakup and neutron removal indicate that ^{31}Ne is the heaviest halo driven by deformation. The possible ground state of ^{31}Ne is either $3/2^-$ or $1/2^+$. To study the neutron removal from ^{31}Ne , we use a knockout model with deformed single-particle wave functions and investigate the deformation effects on cross sections and longitudinal momentum distributions. Our numerical analysis shows a preference for the ^{31}Ne ground state with spin-parity $3/2^-$.

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