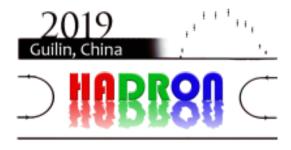
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Magnetic field dependence of light baryon properties in a Skyrme model

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The properties of nucleons and Δ isobars in a uniform magnetic field are investigated. In the weak magnetic field region, the general relations between magnetic moment of nucleons and Δ isobars are given. The estimation shows in the core part of the magnetar, the equation of state fornucleons and Δ isobars depends on the magnetic field, which affects the mass limit of the magnetar.

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