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Ground State Structure of Hs Super-heavy Isotopes

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**摘要** The ground state properties of Hs nuclei studied in the framework of the relativistic mean field theory revealed that more stable isotopes are located on the proton abundant side of the chain. The last stable nucleus to the proton drip line is 256Hs. The most stable unknown Hs nucleus may be 268Hs. The density dependent delta interaction pairing is used to improve the BCS pairing correction, which results in more reasonable single particle energy level distributions and nucleon occupation, and it is shown to be available to describe the properties of nuclei in the superheavy region.

**关键词** [superheavy nucleus](#) [nuclear structure](#) [pairing](#)

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