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Exotic interstellar polyatomic H_3^+ mass spectrum

Exotic interstellar polyatomic H_3^+ is the simplest polyatomic bound state [1]. It exists in various interstellar environments, near the Galactic center, especially close to the star-forming regions that exhibit a significant presence of extensive and dispersed warm gas where exotic contributes to the interactions and dynamics of the medium with temperatures on the order of a few hundred to a few thousand Kelvin. This exotic bound state plays a crucial role in astrophysics, spectroscopy and observational astronomy, molecular cloud dynamics, chemical processes, and physics of the interstellar medium. By studying the mass spectrum and energy eigenvalues of exotic H_3^+ , for the ground and orbit excited states under the relativistic conditions and quantum field theory principles, we can gain insights into the physical and chemical properties of interstellar regions, due to provide valuable information about the conditions and processes occurring in the spaces between stars, planetary sys