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**Eigen Solutions, Shannon Entropy and Fisher Information under**
**the Eckart Manning Rosen Potential Model**
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Abstract
We solved the Schr¨ odinger equation with a certain approximation to the centrifugal term for an
arbitrary angular momentum state with the Eckart Manning Rosen potential. The bound-state
energy eigenvalues and the corresponding wave functions have been approximately obtained using the parametric Nikiforov Uvarov method. The solutions of the Schr¨ odinger equation for the Eckart potential, Manning Rosen potential, and Hulth´ en potential have been obtained using a certain transformation. The concepts of the Shannon entropy and the Fisher information of a system under the Eckart Manning Rosen potential are investigated in detail. The behavior of the screening parameter and the quantum number n for Fisher information and the Shannon entropy are also investigated.

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