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## **Mathematical Physics**

# Scattering and Bound State Solutions of Asymmetric Hulthén Potential

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(Submitted on 16 Jul 2011)

One-dimensional time-independent Schr\"odinger equation is solved for the asymmetric Hulth\'{e}n potential. Reflection and transmission coefficients and bound state solutions are obtained in terms of the hypergeometric functions. It is observed that the unitary condition is satisfied in non-relativistic region.

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