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## Oscillator problem on three dimensional two-sheeted hyperboloid

Eigenfunctions of the Schrodinger equation with the oscillator potential on the two-sheeted hyperbolic space are studied in four coordinate systems admitting solutions in terms of hypergeometric functions. Normalization and coefficients of mutual expansions for some sets of solutions are found.

Primary author: Mr PETROSYAN, David (BLTP, JINR)

Presenter: Mr PETROSYAN, David (BLTP, JINR)

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