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Summary: In this work, we introduce a new spacetime using Heisenberg group and call this space as “Heisenberg spacetime”. We give a geometrical description of time-tangent surfaces around timelike biharmonic particle in $H^4$. Moreover, we obtain Lorentz transformations this particles. Additionally, we illustrate our results in Figs. 1–6.

MSC:
78A25 Electromagnetic theory (general)

Keywords:
energy; bienergy; Heisenberg group; Faraday tensor; Lorentz transformations

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References:

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