

Helicoidal surfaces with $\Delta J_r = A r$ in 3-dimensional Euclidean space.

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Abstract: *We study the helicoidal surfaces with $\Delta J_r = A r$ in the 3-dimensional Euclidean space under the condition $\Delta J_r = A r$, $J = I, II, III$, where A is a constant matrix and Δ denotes the Laplace operator with respect to the fundamental form I, II and III .*