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New insight into the Taub-NUT space-time

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The Taub-NUT metric represents quite intriguing space-time configuration supposedly possessing gravitational analog of the magnetic monopole. We will deal with the new approach to this subject. Starting from realizing that the source of many inconsistencies lies in neglecting the effects of the wire singularities present in that solution, we are able to explain the existence of the NUT parameter by the means of quite peculiar rotation. Among many things, this leads to the consistent description of the black hole thermodynamics for the Lorentzian Taub-NUT space-time with the essential contribution to the angular momentum and the total entropy.

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