

**Erratum: Self-dual teleparallel formulation of general relativity and the positive energy theorem  
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As is pointed out by Pelykh [1], there is an imprecise statement in my paper [2]: "Some authors found the relation between the orthonormal frame (triad) and the Witten equation [3,4]." It should be changed to "Some authors found the relation between the orthonormal frame (triad) and a solution to the Witten equation [3] and proved the equivalence between the Witten equation and Nester's gauge conditions [4]." In view of the main theme indicated by the title, the aim of Sec. IV is only to demonstrate that in the framework of the self-dual formulation Nester's gauge condition can be derived from the Witten equation directly using the Eq. (42), and then the existence and the node points of the solutions to the Witten equation and the conditions of the equivalence between the Witten equation and Nester's gauge are not dealt with. After this paper was published we become aware of [5], which essentially addressed these issues in detail and gave them a complete and exact treatment.

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- [1] V. Pelykh, Phys. Rev. D **72**, 108502 (2005).  
[2] G. Y. Chee, Phys. Rev. D **68**, 044006 (2003).  
[3] J. Frauendiener, Classical Quantum Gravity **8**, 1881 (1991).

- [4] V. Pelykh, J. Math. Phys. (N.Y.) **41**, 5550 (2000).  
[5] V. Pelykh, J. Phys. A **35**, 8135 (2002); Classical Quantum Gravity **20**, 1115 (2003).