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Reply to “Notes on Pioneer Anomaly Explanation by Satellite-Shift Formula of Quaternion Relativity” VIC CHRISITANTO, Sciprint.org, FLORENTIN SMARANDACHE, University of New Mexico, Gallup Campus — In the present article we would like to make a few comments on a recent paper by A. Yefremov in Progress in Physics international journal. It is interesting to note here that he concludes his analysis by pointing out that using full machinery of Quaternion Relativity it is possible to explain Pioneer XI anomaly with excellent agreement compared with observed data, and explain around 45% of Pioneer X anomalous acceleration. We argue that perhaps it will be necessary to consider extension of Lorentz transformation to Finsler-Berwald metric, as discussed by a number of authors in the past few years. In this regard, it would be interesting to see if the use of extended Lorentz transformation could also elucidate the long-lasting problem known as Ehrenfest paradox. Further observation is of course recommended in order to refute or verify this proposition.

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