

Completeness of certain accelerated relativistic trajectories

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ABSTRACT

The notions of uniformly accelerated, unchanged direction and circular motion in General Relativity are introduced in the realm of the Lorentzian Geometry [1], [2]. We analyse the completeness of the inextensible trajectories of observers which obey these motions, when the ambient spacetime has certain conformal symmetry.

References

- [1] D. de la Fuente and A. Romero, Uniformly accelerated motion in General Relativity: completeness of inextensible trajectories, *Gen. Relativ. Gravit.*, (2015) 47:33, DOI 10.1007/s10714-015-1879-3 (13 pp.).
- [2] D. de la Fuente, A. Romero and P.J. Torres, Unchanged direction motion in General Relativity: the problem of prescribing acceleration, *J. Math. Phys.*, DOI:10.1063/1.4935854 (2015), 1450006.