

Cornell University Library

(Help | Advanced search)

Search or Article-id

arXiv.org > math > arXiv:1107.1815 - Go! All papers Mathematics > Differential Geometry Download: PDF The geodesic flow on a PostScript Other formats **Riemannian supermanifold** Current browse context: math.DG Stéphane Garnier, Tilmann Wurzbacher < prev | next > new | recent | 1107 (Submitted on 9 Jul 2011) Change to browse by: We give a natural definition of geodesics on a Riemannian supermanifold and math extend the usual geodesic flow defined on the cotangent bundle of the body math-ph of the supermanifold, associated to the induced Riemannian structure on the body, to a geodesic "superflow" on the cotangent bundle of the **References & Citations** supermanifold. Integral curves of this flow turn out to be in natural bijection NASA ADS with geodesics on the Riemannian supermanifold. We also construct the corresponding exponential map and generalize the well-known faithful Bookmark(what is this?) linearization of isometries to Riemannian supermanifolds. 📃 🕸 🗶 🔜 🖬 🖬 🗐 Science WISE Comments: 28 pages Differential Geometry (math.DG); Mathematical Physics Subjects: (math-ph) MSC classes: 58A50 (Primary) 53C22, 53D25, 58C50 (Secondary) Cite as: arXiv:1107.1815 [math.DG] (or arXiv:1107.1815v1 [math.DG] for this version)

Submission history

From: Tilmann Wurzbacher [view email] [v1] Sat, 9 Jul 2011 20:14:49 GMT (23kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.