

Cornell University <u>Library</u>

Search or Article-id (Help | Advanced search) arXiv.org > math > arXiv:1205.0142 All papers Go! 6 Mathematics > Metric Geometry Download: • PDF The equal tangents property PostScript Other formats J. Jeronimo-Castro, G. Ruiz-Hernandez, S. Tabachnikov Current browse context: (Submitted on 1 May 2012 (v1), last revised 4 May 2012 (this version, v2)) math.MG Let M be a smooth strictly convex closed surface in space and denote by H < prev | next > the set of points x in the exterior of M such that all the tangent segments from new | recent | 1205 x to M have equal lengths. In this note we prove that if H is either a closed Change to browse by: surface containing M or a plane then M is an Euclidean sphere. Moreover, math we shall see that the situation in the Euclidean plane is very different. **References & Citations** Comments: a typo corrected NASA ADS Subjects: Metric Geometry (math.MG) Bookmark(what is this?) Cite as: arXiv:1205.0142v2 [math.MG] 📃 💿 X 🐱 🖬 🖬 🚽 😭 🥳 Submission history WISE From: Serge Tabachnikov [view email]

[v1] Tue, 1 May 2012 11:38:04 GMT (7kb) **[v2]** Fri, 4 May 2012 11:36:01 GMT (7kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.