

Cornell University Library

We gratefully acknowledge support from the Simons Foundation and member institutions

arXiv.org > math-ph > arXiv:1107.2286

**Mathematical Physics** 

## On the motion of point defects in relativistic fields

Michael K.-H. Kiessling

(Submitted on 12 Jul 2011)

We inquire into classical and quantum laws of motion for the point charge sources in the nonlinear Maxwell-Born-Infeld field equations of classical electromagnetism in flat and curved Einstein spacetimes.

Comments:	40 pages; based on a talk given at the conference "Quantum Field Theory and Gravity", Regensburg 2010 (Felix Finster, Olaf Mueller, Marc Nardmann, Juergen Tolksdorf, Eberhard Zeidler, eds.). To appear in the refereed conference proceedings	
Subjects:	<b>Mathematical Physics (math-ph)</b> ; General Relativity and Quantum Cosmology (gr-qc)	
MSC classes: Cite as:	78A02, 78A25, 83A05, 83C10, 83C50, 83C75 arXiv:1107.2286 [math-ph] (or arXiv:1107.2286v1 [math-ph] for this version)	

## Submission history

From: Michael K. -H. Kiessling [view email] [v1] Tue, 12 Jul 2011 13:39:10 GMT (50kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

Search or Article-id	( <u>Help</u>   <u>Advanced search</u> )
	All papers 🚽 Go!
in	Download: • PDF • PostScript • Other formats
	Current browse context: math-ph < prev   next > new   recent   1107
rge al	Change to browse by: gr-qc math
Quantum Finster	References & Citations <ul> <li>NASA ADS</li> </ul>
Eberhard e	Bookmark(what is this?) III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII