

Search or Article-id (Help | Advanced search) arXiv.org > gr-gc > arXiv:1107.5693 All papers Go! Ŧ General Relativity and Quantum Cosmology Download: PDF **Spinors and Voros star-product for** PostScript Other formats **Group Field Theory: First Contact** Current browse context: gr-gc Maité Dupuis, Florian Girelli, Etera R. Livine < prev | next > new | recent | 1107 (Submitted on 28 Jul 2011) Change to browse by: In the context of non-commutative geometries, we develop a group Fourier math transform for the Lie group SU(2). Our method is based on the Schwinger math-ph representation of the Lie algebra su(2) in terms of spinors. It allows us to prove that the non-commutative R^3 space dual to the SU(2) group is in fact **References & Citations** of the Moyal-type and endowed with the Voros star-product when expressed INSPIRE HEP in the spinor variables. Finally, from the perspective of quantum gravity, we (refers to | cited by) discuss the application of these new tools to group field theories for spinfoam NASA ADS models and their interpretation as non-commutative field theories with Bookmark(what is this?) quantum-deformed symmetries. 📃 🐵 🗶 🔜 🖬 🖬 😴 Comments: 23 pages Subjects: General Relativity and Quantum Cosmology (gr-qc); Mathematical Physics (math-ph) Cite as: arXiv:1107.5693 [gr-qc]

Submission history

From: Etera R. Livine [view email] [v1] Thu, 28 Jul 2011 12:12:10 GMT (156kb)

Which authors of this paper are endorsers?

(or arXiv:1107.5693v1 [gr-qc] for this version)

Link back to: arXiv, form interface, contact.