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Markus J Pflaum* (markus.pflaum@colorado.edu), Department of Mathematics, University of Colorado UCB 395, Boulder, CO 80309, and **Hessel Posthuma** and **Xiang Tang**. *On the Hochschild homology of convolution algebras over proper Lie groupoids and a complex of Brylinski.*

We describe the complex of basic relative forms on the inertia space of a proper Lie groupoid and show how it relates to the Hochschild homology theory of the convolution algebra. For the case of a compact Lie group action this complex was originally constructed by Brylinski. (Received August 09, 2016)