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Jens Gerlach Christensen*, 329 Lockett Hall, Louisiana State University, Baton Rouge, LA
70803. *Uncertainty Principles from Representations of Lie Groups.*

First we present a general uncertainty principle for the infinitesimal operators obtained from a representation of a Lie group. Next we apply this to a representation of the Euclidean motion group to obtain an uncertainty principle on the sphere. (Received September 16, 2008)