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William D Kirwin*, University of Notre Dame, Department of Mathematics, 255 Hurley Building, Notre Dame, IN 46556. *Why should we care about projectively flat connections?*

In this talk I will briefly explore one of the major themes of my recent research: projectively flat connections in geometric quantization. They arise naturally in response to the fundamental question “What is quantization?”, and are related to questions involving the spectra of Laplacians on symplectic manifolds, and to the Fourier and Segal-Bargmann transforms (and their generalizations to compact Lie groups). (Received August 24, 2005)