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Alejandro Uribe* (uribe@umich.edu), University of Michigan, 2074 East Hall, 530 Church Street, Ann Arbor, MI 48109-1043. *Manifolds of compatible almost-complex structures and geometric quantization*. Preliminary report.

Consider a compact, pre-quantizable symplectic manifold (X, ω) . In this talk I will discuss relationships between the geometric quantization of X , and the symplectic geometry of manifolds of compatible almost-complex structures. In the non-integrable case, “geometric quantization” will be defined in terms of a rescaled Laplacian on sections of a pre-quantum circle bundle (almost Kähler quantization). Several of these results are joint work with T. Foth. (Received February 13, 2006)