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**G. Hernández-Dueñas\*** ([gerahdez@umich.edu](mailto:gerahdez@umich.edu)), 2074 East Hall, 530 Church Street, Ann Arbor, MI 48109-1043, and **A. Uribe**. *Quantum cutting: A Szegő limit theorem and propagation*.

Given a representation of the circle group by semiclassical Fourier integral operators, we construct an algebra of semiclassical pseudodifferential operators that are a quantum generalization of the notion of symplectic cutting of Lerman. We develop a symbol calculus, prove a Szegő limit theorem and discuss propagation of coherent states. (Received April 12, 2010)