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Victor D. Lie* (vilie@math.ucla.edu), Department of Mathematics, UCLA, Box 951555, Los Angeles, CA 90095-1555. *The (weak- L^2) Boundedness of The Quadratic Carleson Operator.*

We prove that the generalized Carleson operator with polynomial phase function of degree two is of weak type (2,2). For this, we introduce a new approach to the time-frequency analysis of the quadratic phase. (Received February 10, 2008)