

1046-42-163

**Mark A. Pinsky\*** ([mpinsky@math.northwestern.edu](mailto:mpinsky@math.northwestern.edu)), Mathematics Department,  
Northwestern University, 2033 Sheridan Rd., Evanston, IL 60208-2730. *Pointwise convergence of  
fourier series of the indicator of a ball in euclidean space, following Kuratsubo.*

Following earlier joint work of the author (JFA, 1993), Kuratsubo has established a complete result concerning the pointwise convergence of the spherical partial sums of the Fourier series of the indicator function of a  $d$ -dimensional ball in Euclidean space. The results depend on the dimension and the point at which the sums are computed. The method of proof depends on some new lattice point estimates due to Breislav Novak. (Received August 08, 2008)