1116-42-752 **Jongchon Kim*** (jkim@math.wisc.edu). Recent progress on radial Fourier multipliers and some generalizations.

Recently, important progress has been made on the L^p mapping properties of radial Fourier multipliers. We review the results and introduce some generalizations. In particular, we prove a necessary and sufficient condition for a class of quasiradial Fourier multipliers and associated maximal functions to be bounded on $L^p(\mathbb{R}^d)$ for $d \ge 4$ and 1 , which generalizes a result by Heo, Nazarov and Seeger. (Received September 11, 2015)