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University of Maine, Orono, ME 04469. *Estimates of Fourier Transforms*. Preliminary report.

In recent work (joint with M. Pinsky, JFA 2008, arXiv.math 2009), we developed weighted  $L^q$  estimates of the Fourier transform on Euclidean spaces and on rank one symmetric spaces of non-compact type. This talk presents a summary of these results as well as some variations and extensions. (Received September 18, 2011)