1015-42-30 **Dan Oberlin*** (oberlin@math.fsu.edu). *The Convolution Problem for Measures on Curves in the Plane.*

If λ is a positive measure on a nice curve in $\mathbb{R}^2$, the convolution problem for λ is to determine the values of p and q for which $\lambda * L^p(\mathbb{R}^2) \subseteq L^q(\mathbb{R}^2)$. We will survey some different methods which have been applied to this problem and mention an endpoint issue which has not yet been resolved. (Received January 03, 2006)