MAXIMAL ESTIMATES FOR THE FRACTIONAL 
SCHRÖDINGER EQUATION

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In this talk we consider the pointwise convergence problem for the solutions of generalized Schrödinger equations. We establish the associated maximal estimates for a general class of phase functions, which give the pointwise convergence for $f \in H^s(\mathbb{R}^d)$ whenever $s > \frac{d}{2(d+1)}$. Our arguments are based on recent works of Du, Guth, and Li [1] and Du and Zhang [2]. This is a joint work with hyerim Ko.

References