1146-42-532   **Walton Green*** (`awgreen@clemson.edu`). *Observability of Wave and Schrodinger Equations on* $\mathbb{R}^d$ *via Uncertainty Principles.* Preliminary report.

We present a few new observability inequalities for the wave equation and fractional Schrodinger equation on the entire space ($\mathbb{R}$ or $\mathbb{R}^d$) which are consequences of two uncertainty principles for the Fourier transform: the classical Paneah-Logvinenko-Sereda Theorem and a more recent result by O. Kovrizhkin. We characterize the observable sets in one dimension and give a sufficient condition in higher dimensions. (Received January 29, 2019)