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**Thomas Chen\*** (tc@math.utexas.edu), **Ryan Denlinger** and **Natasa Pavlovic**. *Dispersive estimates for density matrices in quantum dynamics and kinetic theory.*

In this talk, we survey some recent results on Strichartz estimates for density matrices, and present several examples where they are applied. In particular, those include the analysis of the classical Boltzmann equation in an approach based on the Wigner transform. This is joint work with Ryan Denlinger and Natasa Pavlovic. (Received September 26, 2017)