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**Yu Deng\*** (yudeng@cims.nyu.edu). *Long-time Strichartz estimates on irrational tori, and applications.*

Recently, Bourgain-Demeter proved the optimal  $L^p$  Strichartz estimate on general tori. It turns out that on generic irrational tori, these estimates can still be improved, in the sense that they are satisfied on long time intervals depending on the frequency. We propose a conjecture on the optimal time length, prove partial results in that direction, and discuss applications to controlling growth of Sobolev norms for NLS. This is joint work with P. Germain and L. Guth. (Received July 02, 2017)