YUZHAO WANG, Memorial University of Newfoundland *Nonlinear hyperbolic Shcrödinger equations*

Cubic nonlinear Shcrödinger equations are extensively studied and well understood in different settings, such as Euclidean, periodic, semi-periodic and even on compact manifold. However, its hyperbolic counterparts, which includes Ishimori system and hyperbolic DS system, are much less understood. In this note, we try to understand the local behaviour of cubic nonlinear hyperbolic Schrödinger equations under semi-periodic setting. The main difficulty comes form the Fourier series raised from the periodic dimension, we manage to control it via major arc decomposition argument.