JAMES COLLIANDER, Toronto
An interaction Morawetz estimate for gauged nonlinear Schrödinger

This talk describes an interaction Morawetz estimate for the magnetic Schrödinger equation under certain smallness conditions on the gauge potentials. The estimate is useful in proving scattering results in the presence of a magnetic field and is motivated by questions about Schrödinger evolutions coupled to dynamical gauge fields. This talk reports on collaborative work with Magdalena Czubak (SUNY Binghamton) and Jeonghun Lee (Minnesota).