THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

Analysis and PDE Seminar

November 3, 2022
3:30 - 4:30 p.m.
PH 228

A determination of the blowup solutions to the focusing, quintic NLS with mass equal to the mass of the soliton

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Abstract. In this talk we prove that the only blowup solutions to the focusing, quintic nonlinear Schrodinger equation with mass equal to the mass of the soliton are rescaled solitons or the pseudoconformal transformation of those solitons.