ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

INVITATION TO THE DOCTORAL SEMINAR

FOCUSING NONLINEAR SCHRODINGER EQUATION WITH AN INVERSE-SQUARE POTENTIAL

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Chaired by Barbara Kaltenbacher | Department of Mathematics

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ABSTRACT

In this talk, I will consider the focusing nonlinear Schrodinger equation with an inverse-square potential. The uniqueness of the ground state solution and a sharp Hardy-Gagliardo-Nirenberg interpolation inequality will be discussed. Moreover, a complete characterization for the minimal mass blow-up solutions to the associated Cauchy problem will be provided.

We hope to see you there!