



# 北京理工大学

## 数学与统计学院学术报告

### Dynamics of NLS with inverse square potential

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**摘要:** We consider the Cauchy problem of the energy subcritical and critical NLS with inverse square potential. We classify solutions when the energy is less than or equal to the energy of the ground state in the energy critical case. In the energy subcritical case, we classify all solutions at the ground state threshold level, and the uniqueness of the ground state solution is obtained via a modified shooting method. Further recent joint works will also be mentioned.

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