

## 第10回

- 講演者 : 池田 正弘 氏(理化学研究所)
  - 題目 : Global dynamics below the ground state for the semilinear Schrödinger equation with a repulsive potential
  - 日時 : 平成29年6月21日 (水) 16:30 – 17:30

We study global dynamics of solutions to the Cauchy problem for the focusing semilinear Schrödinger equation with a potential on the real line. The problem is locally well-posed in the energy space. Our aim in this presentation is to study global behavior of the solution and prove a scattering result and a blow-up result for the problem with the data whose mass-energy is less than that of the ground state, where the ground state is the unique radial positive solution to the stationary Schrödinger equation without the potential. The scattering result for the defocusing version is recently studied by Lafontaine.



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5 images

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