

# 学术报告

## **Radiation fields for semilinear Dirac equations with spinor null forms**

Li Jiongyue (李罔玥 副教授)

Sun Yat-sen University  
(中山大学)

**Time:** 14:00-15:00, May 8 (Monday), 2023

**Venue:** 腾讯会议 ID: 613 158 370

**Abstract:** We will talk about the scattering theory of half spin waves by the means of the radiation fields. We first define the radiation fields for semilinear Dirac equations with spinor null forms. Then we prove a nonlinear isomorphism between the weighted energy space of initial data and the weighted energy space of radiation fields. The proof is based on a careful study of the linear Dirac radiation fields combined with a functional framework. In the last, we also present a rigidity result. This is a joint work with JIN JIA.

欢迎大家参加！