北京理工大學

数学与统计学院学术报告

Sharp scattering for focusing intercritical NLS on high-dimensional waveguide manifolds

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时间： 2024.4.8 19:00-20:00

地点： 腾讯会议：946-250-171

摘要： We study the focusing intercritical NLS on highdimensional waveguide manifold. As the derivative of the nonlinear potential is no longer Lipschitz in 5d or higher and the underlying domain possesses an anisotropic nature, the proof in 4d and lower, which makes use of the concentration compactness principle, can not be extended to higher dimensional models. We exploit a well-tailored adaptation of the interaction Morawetz – Dodson – Murphy (IMDM) estimates to overcome this problem.

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