Publication List

Yongming Luo

Preprints and articles

1. Y. Luo
   A Legendre-Fenchel identity for the nonlinear Schrödinger equations on $\mathbb{R}^d \times \mathbb{T}^m$: theory and applications.
   (arxiv: 2307.16153)

2. A. Esfahani, H. Hajaiej, Y. Luo and L. Song
   On the focusing fractional nonlinear Schrödinger equation on the waveguide manifolds.
   (arxiv: 2305.19791)

3. Y. Luo
   Almost sure scattering for the defocusing cubic nonlinear Schrödinger equation on $\mathbb{R}^3 \times \mathbb{T}$.
   (arxiv: 2304.12914)

4. P. Dondl, Y. Luo, S. Neukamm and S. Wolff-Vorbeck
   Efficient uncertainty quantification for mechanical properties of randomly perturbed elastic rods.
   (arxiv: 2304.08785)

5. Y. Luo, X. Yu, H. Yue and Z. Zhao
   On well-posedness results for the cubic-quintic NLS on $\mathbb{T}^3$.
   (arxiv: 2301.13433)

6. H. Hajaiej, Y. Luo and L. Song
   On existence and stability results for normalized ground states of mass-subcritical biharmonic NLS on $\mathbb{R}^d \times \mathbb{T}^n$.
   (arxiv: 2212.00750)

7. Y. Luo
   Normalized ground states and threshold scattering for focusing NLS on $\mathbb{R}^d \times \mathbb{T}$ via semivirial-free geometry.
   (arxiv: 2205.04969)

8. Y. Luo
   Sharp scattering for focusing intercritical NLS on high-dimensional waveguide manifolds.
   Math. Ann., accepted.
   (arxiv: 2212.10908)

9. Y. Luo
   On long time behavior of the focusing energy-critical NLS on $\mathbb{R}^d \times \mathbb{T}$ via semivirial-vanishing geometry.
   J. Math. Pures Appl., accepted.
   (arxiv: 2206.07346)

10. Y. Luo
    On sharp scattering threshold for the mass-energy double critical NLS via double track profile decomposition.
    Ann. Inst. H. Poincaré C Anal. Non Linéaire, accepted.
    (arxiv: 2108.00915)

11. Y. Luo
Sharp scattering threshold for the cubic-quintic NLS in the focusing-focusing regime.
J. Funct. Anal. 283 (2022), no. 1, Paper No. 109489, 34 pp.
(arxiv: 2105.15091)

12. Y. Luo
On the local in time well-posedness of an elliptic-parabolic ferroelectric phase-field model.
Nonlinear Anal. Real World Appl. 65 (2022), Paper No. 103462, 30 pp.
(arxiv: 2011.00085)

13. Y. Luo and A. Stylianou
On 3d dipolar Bose-Einstein condensates involving quantum fluctuations and three-body interactions.
Discrete Contin. Dyn. Syst. Ser. B 26 (2021), no. 6, 3455-3477.
(arxiv: 1902.05591)

14. Y. Luo and A. Stylianou
Ground states for a nonlocal mixed order cubic-quartic Gross-Pitaevskii equation.
J. Math. Anal. Appl. 496 (2021), no. 1, Paper No. 124802, 20 pp.
(arxiv: 1806.00697)

Permanent notes

1. Y. Luo
Large data global well-posedness and scattering for the focusing cubic nonlinear Schrödinger equation on $\mathbb{R}^2 \times \mathbb{T}$.
(arxiv: 2202.10219)

2. Y. Luo and A. Stylianou
Normalized ground states for 3D dipolar Bose-Einstein condensate with attractive three-body interactions.
(arxiv: 2202.09801)

3. Y. Luo
Scattering threshold for radial defocusing-focusing mass-energy double critical nonlinear Schrödinger equation in $d \geq 5$.
(arxiv: 2106.06993)