## **Preprints**

- 3. L. Forcella, Y. Luo and Z. Zhao. Solitons, scattering and blow-up for the nonlinear Schrödinger equation with combined power-type nonlinearities on  $\mathbb{R}^d \times \mathbb{T}$ . Submitted. (arXiv: 2409.15860)
- 2. A. Esfahani, H. Hajaiej, Y. Luo and L. Song. On the focusing fractional nonlinear Schrödinger equation on the waveguide manifolds. Submitted. (arXiv: 2305.19791)
- 1. Y. Luo. Normalized ground states and threshold scattering for focusing NLS on  $\mathbb{R}^d \times \mathbb{T}$  via semivirial-free geometry. Submitted. (arXiv: 2205.04969)

## Articles

- 12. Y. Luo. A Legendre-Fenchel identity for the nonlinear Schrödinger equations on  $\mathbb{R}^d \times \mathbb{T}^m$ : theory and applications. J. Geom. Anal. 34 (2024), no. 10, Paper No. 313.
- 11. Y. Luo. Almost sure scattering for the defocusing cubic nonlinear Schrödinger equation on  $\mathbb{R}^3 \times \mathbb{T}$ . J. Funct. Anal. 287 (2024), no. 4, Paper No. 110492, 33 pp.
- P. Dondl, Y. Luo, S. Neukamm and S. Wolff-Vorbeck. Efficient uncertainty quantification for mechanical properties of randomly perturbed elastic rods. Multiscale Model. Simul. 22 (2024), No. 4, 1267-1325.
- 9. Y. Luo, X. Yu, H. Yue and Z. Zhao. On well-posedness results for the cubic-quintic NLS on  $\mathbb{T}^3$ . Nonlinear Anal. 257 (2025), Paper No. 113806, 9 pp.
- 8. Y. Luo. Sharp scattering for focusing intercritical NLS on high-dimensional waveguide manifolds. Math. Ann. 389 (2024), no. 1, 63-83.
- 7. H. Hajaiej, Y. Luo and L. Song. On existence and stability results for normalized ground states of mass-subcritical biharmonic NLS on  $\mathbb{R}^d \times \mathbb{T}^n$ . SIAM J. Math. Anal. 56 (2024), no. 4, 4415-4439.
- 6. 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. 177 (2023), 415-454.
- 5. Y. Luo. On the sharp scattering threshold for the mass-energy double critical nonlinear Schrödinger equation via double track profile decomposition. Ann. Inst. H. Poincaré C Anal. Non Linéaire 41 (2024), no. 1, 187-255.
- 4. 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.
- 3. 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.
- 2. 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.
- 1. 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.

## Unpublished notes

- Y. Luo. Large data global well-posedness and scattering for the focusing cubic nonlinear Schrödinger equation on ℝ<sup>2</sup> × T. (arXiv: 2202.10219)
- Y. Luo and A. Stylianou. Normalized ground states for 3D dipolar Bose-Einstein condensate with attractive three-body interactions. (arXiv: 2202.09801)
- Y. Luo. Scattering threshold for radial defocusing-focusing mass-energy double critical nonlinear Schrödinger equation in d ≥ 5. (arXiv: 2106.06993)