PUBLICATION LIST

Fan Ye

[12] **Instanton 2-torsion and Dehn surgeries** *Joint with Zhenkun Li, submitted, arXiv:2508.03394.*

[11] **2-torsion in instanton Floer homology** *Joint with Zhenkun Li, Adv. Math. 472:Paper No. 110289, 55 (2025). DOI:10.1016/j.aim.2025.110289, arXiv:2405.16252.*

[10] **Knot surgery formulae for instanton Floer homology II: applications**
Joint with Zhenkun Li, Math. Ann. 391:6291–6371 (2025). DOI: 10.1007/s00208-024-03074-6.

[9] **Guts of nearly fibered knots** *Joint with Zhenkun Li, accepted by Algebr. Geom. Topol., arXiv:2208.05382.*

[8] **Knot surgery formulae for instanton Floer homology I: the main theorem**
Joint with Zhenkun Li, Geom. Topol. 29(5): 2269–2342 (2025). DOI:10.2140/gt.2025.29.2269, arXiv:2206.10077.

[7] **Small Dehn surgery and SU(2)** *Joint with John A. Baldwin, Zhenkun Li, and Steven Sivek, Geom. Topol. 28(4): 1891–1922 (2024). DOI:10.2140/gt.2024.28.1891, arXiv:2110.02874.*

[6] **SU(2) representations and a large surgery formula**
Joint with Zhenkun Li, submitted, arXiv:2107.11005.

[5] **An enhanced Euler characteristic of sutured instanton homology**
Joint with Zhenkun Li, IMRN 2024(4): 2873-2936 (2023).
DOI:10.1093/imrn/rnad066, arXiv:2107.10490.

[4] **Instanton Floer homology, sutures, and Euler characteristics**
Joint with Zhenkun Li, Quantum Topol. 14 (2): 201–284 (2023).
DOI:10.4171/QT/182, arXiv:2101.05169.

[3] **Sutured instanton homology and Heegaard diagrams**
Joint with John A. Baldwin and Zhenkun Li
Compos. Math. 159(9), 1898-1915 (2023). DOI:10.1112/S0010437X23007303, arXiv:2011.09424.

[2] **Instanton Floer homology, sutures, and Heegaard diagrams**
Joint with Zhenkun Li, J. Topol. 15(1): 39-107 (2022). DOI:10.1112/topo.12218, arXiv:2010.07836.

[1] **Constrained knots in lens spaces**
Algebr. Geom. Topol. 23(3): 1097–1166 (2023). DOI:10.2140/agt.2023.23.1097, arXiv:2007.04237.

[0] **Ph.D. Thesis, New techniques in calculation of sutured instanton Floer homology:**
by Heegaard diagrams, Euler characteristics, and Dehn surgery formulae
DOI:10.17863/CAM.85094.