李镛 Yong LI

Basic

Born in November 1989, age 35. In 2019, obtained a PhD from Capital Normal University under the supervision of Professor Sun Shanzhong and Professor David SAUZIN. Research focus is on pure mathematics, specifically Resurgence theory and its applications. Email: liyong_cnu@163.com, liyong@bimsa.cn.

Education

Capital Normal University - Mathematics and applied mathematics - undergraduate 2008.09 - 2012.06
Capital Normal University - Pure mathematics - PhD   2013.09 - 2019.06

Work experience

Nankai University - Chern institute - Post-doc   Mentor：Prof. Yiming LONG   2019.09 - 2022.09
Tsinghua University - Yau centor - Post-doc   Mentor：Prof. Si LI   2022.11 - 2024.11

Publications and preprints

- Yong LI, David SAUZIN and Shanzhong SUN, *The Baker-Campbell-Hausdorff formula via Mould calculus*, *Letters in Mathematical Physics*, 6 Sep. (2018), 1–22. DOI:10.1007/s11005-018-1125-5.

- Yong LI, David SAUZIN and Shanzhong SUN, *On the Moyal Star Product of Resurgent Series*. *Annales de l'Institut Fourier*, Tome 73 (2023) no. 5, pp. 1987-2027.

- Li HAN, Yong LI, David SAUZIN and Shanzhong SUN, *Resurgence and Partial Thera Series*, *Functional Analysis and Its Applications*, pp. 248-265, 57 (2023), DOI:10.4213/faa4031, arXiv: 2112.15223, 16pp..

- Yong LI, David SAUZIN and Shanzhong SUN, *Hadamard Product and Resurgence Theory*, arXiv: 2012.14175.

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- Jørgen ANDERSEN, Li HAN, Yong LI, William Elbæk MISTEGÅRD, David SAUZIN, and Shanzhong SUN, *A proof of Witten's asymptotic expansion conjecture for WRT invariants of Seifert fibered homology spheres*. Preprint.

- Si LI, Yong LI, Xinxing TANG and Yifan WU, *Heat kernel and resurgence*. Preprint.

- Yong LI, David SAUZIN and Shanzhong SUN, *Resurgent transseries completions for partial theta series (part 1)*. Preprint.

- Yong LI and Hongfei SHU, *Resurgence property of the 4-point function in conformal field theory - an example*. Preprint.

- 申文，孙善忠，李勇，李镛，邸玥，*Resurgence 理论及其应用*，*Journal of Capital Normal University (Natural Science Edition)*, 2024, Vol 45, Issue 1, 77pp..