

# BK Yonsei Geometry Seminar

**Yat-Hin Marco Suen**

*KIAS*

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## **Toric Vector Bundles via Spectral networks and Non-abelianization**

Spectral networks and non-abelianization were introduced by Gaiotto-Moore-Neitzke and they have many applications in mathematics and physics. In a recent work by Nho, he proved that the non-abelianization of an almost flat local system over the spectral curve of a meromorphic quadratic differential is actually the same as the family Floer. Based on the mirror symmetry philosophy, it is then natural to ask how holomorphic vector bundles arise from spectral networks and non-abelianization. In this paper, we construct toric vector bundles on toric surfaces via spectral networks and non-abelianization.

주최: 4단계 BK21 수리과학 및 계산 교육연구단 (연세대학교 수학기산학부)

문의: 홍한솔 [hansolhong@yonsei.ac.kr](mailto:hansolhong@yonsei.ac.kr)