



YONSEI Math-CSE Colloquium

From symplectic to shifted symplectic geometry of quiver representations

좌동욱 교수
(충북대학교)

Homological Mirror Symmetry (HMS for short) is a profound, unexpected equivalence between the symplectic geometry of one space and the algebraic geometry of another. At the intersection between these two lie quiver representations, which serves as a combinatorial model for both sides.

In this talk, I will introduce a recent work of Hu-Lau-Tan that studied HMS phenomena for ADHM quiver. I will then discuss its higher dimensional generalization, focusing on four-dimensional cases. This instance of HMS is particularly interesting because Floer cohomology provides a natural source of a shifted symplectic structure on the moduli space of quiver representations. This is ongoing joint work with Siu-Cheong Lau and Ju Tan.

2026.06.04.(목) 17:00
Sci Building #225

주최 : 수리과학연구소, 4단계 BK21 수리과학 및 계산 교육연구단 (연세대학교 수학기산학부)
문의 : 이준경 joonkyunglee@yonsei.ac.kr

* 강연 세부사항은 학과 홈페이지를 참조하시기 바랍니다.