

YONSEI Math-CSE Colloquium

Diophantine Equations and Moduli Spaces with Nonlinear Symmetry

황 준 호

서울대학교

The study of Diophantine equations, i.e. polynomials having integer coefficients and integer unknowns, occupies a central position in number theory. When a given equation describes the moduli space of a class of objects arising in geometry or topology, external techniques can be brought to bear on number-theoretic questions. In this talk, we discuss two examples of moduli spaces: spaces of SL_2 -local systems on surfaces, and spaces of Stokes matrices. These moduli spaces possess high degrees of nonlinear symmetry (in the form of mapping class group or braid group actions), and a theory can be sought for these generalizing the classical reduction theory of arithmetic groups.

2021. 11. 4. (목) 17 : 00

주최: 4단계 BK21 수리과학 및 계산 교육연구단 (연세대학교 수학기산학부)
문의: 홍한솔 hansolhong@yonsei.ac.kr

**[온라인 강연] 접속 방법은 학과 홈페이지 참조.