

YONSEI Math-CSE Colloquium

Standard Conjectures for Finite Vector Spaces

June Huh
Stanford University

I will build a commutative ring that satisfies "standard conjectures", starting from a finite field and a nonnegative integer. What is this ring? What does it say about the finite field? This talk will be mostly elementary: Not much background beyond linear algebra will be necessary. The results are closely tied to the "Singular Hodge theory for combinatorial geometries", as developed in work with Tom Braden, Jacob Matherne, Nick Proudfoot, and Botong Wang in <https://arxiv.org/abs/2010.06088>.

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**[온라인 강연] 접속 방법은 학과 홈페이지 참조.