

Departmental Colloquium

Surfaces from curves via derived categories

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Abstract: I will explain how the seemingly highly abstract machinery of derived categories can be used to answer fundamental and concrete questions in algebraic geometry. I will give several examples of this philosophy; the one alluded to in the title is due to Soheyla Feyzbakhsh, who showed that a generic K3 surface X can be geometrically reconstructed from any curve in X of minimal possible degree.

Please note the unusual room.

Friday, December 7 at 3:00 PM in LC D5
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