

Noncommutative Hilbert schemes and stable pairs on elliptic curves

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Let Y be the space on unordered configurations of n points on the plane.

I will talk about a result (joint with Okounkov, announced several years ago) describing some noncommutative resolutions of Y . I will also explain a more recent conjecture (partly motivated by geometric Langlands duality) relating them to constructible sheaves on the moduli space of stable pairs on an elliptic curve.