

Linear data for the nested Hilbert scheme of points on affine spaces and varieties

Monday, 6 October 2025 16:30 (1 hour)

In this talk we realize the nested Hilbert scheme of points on affine spaces and varieties as quiver varieties. In addition, we provide a schematic construction to a set-theoretical result concerning the nested Hilbert schemes of points on $\mathbb{A}^2$ with quotients supported on curves, provided by Santos; we compute interesting examples and an explicit formula for the tangent space to these latter schemes. This construction generalizes previous work of Jardim, von Flach and Lanza, about the nested Hilbert schemes of points on $\mathbb{A}^2$ and also of Henni and Jardim, about the Hilbert schemes of points on $\mathbb{A}^n$, for $n \geq 3$.

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