

Double nested Hilbert schemes and stable pair invariants

jeudi 2 mars 2023 16:45 (1 heure)

Hilbert schemes of points on a smooth projective curve are symmetric powers of the curve itself; they are smooth and we know essentially everything about them. We propose a variation by studying double nested Hilbert schemes of points, which parametrize flags of 0-dimensional subschemes satisfying certain nesting conditions dictated by Young diagrams. These moduli spaces are almost never smooth but admit a virtual structure à la Behrend–Fantechi. We explain how this virtual structure plays a key role in (re)proving the correspondence between Gromov–Witten invariants and stable pair invariants for local curves.

Orateur: MONAVARI, Sergej