Oberseminar
Institut für Algebraische Geometrie

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Stable sheaves on irreducible holomorphic symplectic manifolds.

Stable sheaves on symplectic surfaces and their moduli spaces have been extensively studied and they turned out to be very useful in the construction of higher-dimensional irreducible symplectic manifolds. It is thus an interesting question to understand stable sheaves and their moduli spaces on irreducible symplectic manifolds of higher dimensions. Unfortunately there are very few explicit examples of such stable sheaves due to the fact that checking stability of a given coherent sheaf is highly non-trivial on a higher-dimensional irreducible symplectic manifold. The best known examples are the tautological bundles on Hilbert schemes of points. In this talk I will explain how to construct new examples of stable sheaves on Hilbert schemes of points on a K3 surface and on generalized Kummer varieties using universal families of fine moduli spaces of stable sheaves. This is joint work with Ziyu Zhang.

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Alle Interessierten sind herzlich eingeladen.