

Lagrangian Intersection Problems

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Symplectic geometry grew out of dynamical systems and classical mechanics, but is now relevant to a host of problems throughout algebraic geometry, geometric topology, and the theoretical physics of string theory. Many of the central themes of symplectic geometry can be understood in terms of the intersection properties of so-called Lagrangian submanifolds in symplectic manifolds. The talk will give an overview of both the classical and the modern in this circle of ideas.