A brief sketch of superintegrability

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摘要： Superintegrability, also known as degenerate integrability and non-commutative integrability, is a generalization of the well-known Liouville integrability of Hamiltonian systems on a symplectic manifold. In this talk, we will first recall the classic integrable systems and then introduce the notion of superintegrability from both algebraic and geometric viewpoints. We will discuss the generalized Liouville Theorem similar to the classic case, and also provide several concrete examples of superintegrable systems.

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