



Symmetries and Conserved Quantities

Symmetries play an important role in both physics and mathematics. The laws which govern our universe are based on principles of symmetry. Our quest for understanding these laws have led us to a deeper understanding of symmetries. Noether's theorem, names after the German mathematician Amalie Emmy Noether, relates the continuous symmetries of a system to the conservation laws obeyed by the system. We will discuss the theorem using some examples.



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