

Gravity and Gauge Theory

Weinstein, Steven (1998) Gravity and Gauge Theory.

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Abstract

Gauge theories are theories that are invariant under a characteristic group of "gauge" transformations. General relativity is invariant under transformations of the diffeomorphism group. This has prompted many philosophers and physicists to treat general relativity as a gauge theory, and diffeomorphisms as gauge transformations. I argue that this approach is misguided.

Keywords: gravity "general relativity" gauge

Specific Sciences: Physics

Subjects: Specific Sciences: Physics: Quantum Field Theory

Specific Sciences: Physics: Relativity Theory

ID Code: 834

Deposited By: Weinstein, Steven
Deposited On: 13 October 2002

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