



## موضوع سخنرانی: تأملاتی بر تأثیرات دیدگاه‌های فلسفی در فرمول‌بندی‌های

### فیزیک

## On Possible Implications of Philosophical Standpoints in Physics Formulations

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### چکیده سخنرانی:

Physics is the science of uncovering laws of nature. All physicists, potentially and at practical level, one way or another, are scientific realists. However, keeping this viewpoint when it comes to subtleties of physics formulations, may face challenges. In this talk, after discussing the scientific realism at ontological, semantic and epistemological levels, I review some physics formulations where the scientific realism have been the underlying principle in their development. In particular, we discuss Hamiltonian formulation of classical mechanics and special and general relativity and how scientific realism has become manifest in their formulation. We also briefly discuss quantum theory where "strong" scientific realism is challenged.

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