

DESY

Particle and Astroparticle Physics Colloquium



Vibe Physics: AI and the future of science.

Tuesday, 20 January, 2026
Auditorium & Webcast 16:00 h

Matt Schwartz (Harvard)

Machine learning has evolved from a specialized field to a foundational tool in various disciplines, including particle physics. Over the past decade, it has transformed collider physics and is beginning to influence more formal sectors of high-energy theory. An introduction to the use of machine learning in particle physics will be presented, highlighting some recent advances that the speaker has been involved in. Going forward, machine learning will play an increasingly important role in science and education, particularly with the advent of large language models. We are in the early stages of period of rapid change that has been compared to the industrial revolution or the inception of writing. Some justification will be given for these bold analogies alongside speculative insights and an optimistic outlook into how machine learning might be essential for continued progress on unravelling the fundamental laws of nature.



Meeting ID: 996 1652 8733
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