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How to do particle physics in a climate emergency

Tuesday 13 May 2025 17:15 (1 hour)

The pursuit of particle physics, or any kind of discovery-driven research, requires a stable and prosperous society. Today, our society is increasingly threatened by global climate change. Human-influenced climate change has already impacted weather patterns, and global warming will only increase unless deep reductions in emissions of CO₂ and other greenhouse gases are achieved. Current and future activities in particle physics need to be considered in this context, either on the moral ground that we have a responsibility to leave a habitable planet to future generations, or on the more practical ground that, because of their scale, particle physics projects and activities will be under scrutiny for their impact on the climate. I will discuss several contexts in which particle physics has an impact on greenhouse gas emissions, with a particular focus on future collider projects, and how our field can contribute to a more sustainable future.

Presenter: BLOOM, Kenneth (University of Nebraska Lincoln (US))

Session Classification: Invited Talk