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# Boltzmann Lecture 2024

## Symmetry and Unification: can physics be reduced to a single formula?

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The progress of modern physics towards General Relativity and the Standard Model of Particle Physics can be attributed to a large extent to a continual 'enhancement of symmetry', which is also hoped to herald a further unification of the laws of physics. However, attempts to merge the two fundamental theories into a single unified theory of quantum gravity have stalled, due to mathematical difficulties and the absence of clear observational evidence in favour of any of the ansätze proposed so far.

This talk will re-trace some of the history that has led us to this point and discuss open issues and perspectives for future progress.

Dienstag,  
26. November 2024

16:30 – Einlass  
17:00 – Boltzmann Lecture 2024

Ausklang bei kleinen  
Erfrischungen

Fakultät für Physik, Universität Wien

Lise-Meitner-Hörsaal, 1. Stock

Haupteingang: Strudlhofgasse 4, 1090 Wien

Barrierefreier Eingang: Boltzmannngasse 5, 1090 Wien

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