

## Plenarvorträge (PV)

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### Plenarvortrag

PV V Do 11:00 ZHG 011

#### **On the Mathematical Structure of Scattering Amplitudes** —

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The past several years have seen dramatic progress in our understanding of scattering amplitudes in supersymmetric gauge and gravity theories. Theoretical advances including the discovery of hidden symme-

tries and rich mathematical structure have led also to practical advances which in many cases render previously impossible field theory calculations trivial. I will review these and recent related developments on correlation functions and Wilson loops, including intriguing connections between gauge theory scattering amplitudes and the mathematical theory of motives.