

# PRISMA+ Colloquium

July 10, 2019 at 1 p.m.  
Lorentz-Raum 05-127, Staudingerweg 7

Michael Spannowsky  
Institute for Particle Physics, DURHAM

## **New Opportunities in High-Energy Physics after the Higgs boson discovery**

The discovery of the Higgs boson has for the first time established an arguably elementary scalar sector at the electroweak scale. With a newly discovered and yet unexplored scalar sector novel opportunities arise to address fundamental questions in nature. To maximise our understanding of this sector a concerted effort between collider and non-collider experiments, as well as perturbative and non-perturbative methods is required. I will outline peculiarities of the Higgs sector and point towards possible future research directions to explore the electroweak symmetry breaking potential.