Within the Collaborative Research Centre SFB 676 "Particles, Strings and the Early Universe: The Structure of Matter and Space-Time" scientists of Universität Hamburg and DESY have conducted research at the interface of mathematical physics, particle physics and cosmology. The SFB 676 was funded by the German Research Foundation (DFG) from 2006 to 2018.

During these years, the research areas of the SFB have seen tremendous progress on many fronts, highlighted by the scientific breakthrough of the discovery of the Higgs boson in 2012.

In this book, key researchers of the SFB 676 present the scientific achievements obtained in the various SFB sub-projects as well as the current state and the perspectives of their research areas.

With contributions from:


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