

What we can learn from precision experiments

Prof. Dr. Dirk Dubbers

Physikalisches Institut, Universität Heidelberg

First I show that the rich variety of topics addressed over the years by the zu Putlitz group, reaching all the way from atomic, solid state, to particle physics, follow a "red thread" common to all these studies. Then I focus on a more recent experiment from the group, at odds with the Standard Model of particle physics, and subsequently discuss how different searches for New Physics, both at high and low energies, (including some of my own) can be compared with each other using effective field theory.