<<弦论和M理论导论>>

图书基本信息

书名：<<弦论和M理论导论>>

13位ISBN编号：9787510029745

10位ISBN编号：7510029740

出版时间：2011-1

出版时间：世界图书出版公司

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页数：739

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内容概要

String theory is one of the most exciting and challenging areas of modern theoretical physics. It was developed in the late 1960s for the purpose of de-scribing the strong nuclear force. Problems were encountered that prevented this program from attaining complete success. In particular, it was realized that the dpectrum of a fundamental string contains an undesired massless spin-two particle. Quantum chromodynamics eventually proved to be the correct theory for describing the strong force and the properties of hadrons, New doors opened for string theory when in 1974 it was proposed to identify the massless spin-two particle in the strings spectrum with the graviton, the quantum of gravitation. String theory became then the most promising can-didate for a quantum theory of gravity unified with the other forces and has developed into one of the most fascinating the6ries of high-energy physics.

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