



Some phenomenological aspects of low scale quantum gravity

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Brane-World Phenomenology | As a resolution of the well-known hierarchy problem, like supersymmetry the model of extra spatialdimension(s) proposed by N.~Arkani-Hamed,S.~Dimopoulos and G.~Dvali(ADD) in 1998, and byL.~Randall and R.~Sundrum(RS) in 1999, have generated considerable enthusiasm among the physics community. In this thesis, we have made a phenomenological study of both of these models. After a briefintroduction of the ADD model and the RS modelin chapter 1 and chapter 2 and a brief review of the existing phenomenlogical studies in chapter 3, we have derived the order \$kappa^2\$ Feynman rules in the context of ADD model. In chapter 5, we haveinvestigated theeffect of gravity in the DIS (i.e. the process \$e^+ + p rightarrow e^+ X\$) and compare our result withthat at HERA to constrain the parameters of the RSmodel. In chapter 6 and chapter 7, we haveinvestigated several phenomenological consequences of the radion (which appears naturally in the RS model in order to stabilize thesize of the fifth spatial dimension). Chapter 8 contains the summary and the conclusion of the thesis. | Format: Paperback | Language/Sprache: english | 112 pp.



Reviews

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