



## Advances in the Interplay Between Quantum and Gravity Physics: Proceedings of the NATO Advanced Study Institute, Held in Erice, Italy, 30 April-10 May, 2001 (Hardback)

By -

Kluwer Academic Publishers, United States, 2002. Hardback. Book Condition: New. 2002 ed.. 274 x 198 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.In this XVII Course of the International School of Cosmology and Gravitation devoted to ADVANCES IN THE INTERPLAY BETWEEN QUANTUM AND GRAVITY PHYSICS we have considered different aspects of the influence of gravity on quantum systems. In order to achieve this aim, in many lectures, seminars and discussions we have strengthened the interplay between gravity and quantum systems starting from the situation in the early universe based on astrophysical observations, up to the earthly based experiments with atom interferometry for probing the structure of space-time. Thus we have had timely lectures on the quantum field and horizon of a black hole including reviews of the problem of black holes thermodynamics and entropy, quantum information, quantum black holes, quantum evaporation and Hawking radiation, recent advances in stockastic gravity. We have also discussed quantum fluctuations in inflationary universe, quantum effects and reheating after inflation, and superplanckian energies in Hawking radiation. In this regard the subject of spinors in purely affine space-time and Dirac matter according to Wevl in the generalized theory of

### Reviews

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