

ROLE OF QUANTUM  
COSMOLOGICAL CORRECTIONS  
IN SPATIAL GEOMETRY OF THE UNIVERSE

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S u m m a r y

It is shown that the geometry of the homogeneous and isotropic Universe tends to a spatially flat one in the limit which takes into account all possible quantum corrections with respect to a deviation of the scale factor from its classical value. The quantum mechanism of fine tuning of the total energy density to the critical value in the early Universe is discovered.