## Cosmic Antineutrinos as a Source of Dark Energy in Large Extradimensions

Salah Eddine Ennadifi<sup>1\*</sup>

<sup>1</sup> LHEP, Depart. Phys. Faculty of Science, Mohammed V University, Rabat, Morocco

## Abstract

Motivated by the remarkable coincidence between the scales of Dark Energy, the neutrino mass  $10^{-3}eV$  and the antigravity of antimatter hypothesis, we suggest that Dark Energy corresponds to the energy density of extradimensional antineutrinos v. Concretely, such antineutrinos are assumed to be associated with the virtual neutrino-antineutrino pairs  $v - \overline{v}$  in the spacetime uctuation enhanced by the gravitational eld near to black hole horizons.

Key words: Neutrino; Extradimension; Dark Energy.

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<sup>\*</sup>ennadifis@gmail.com