

رتبه اول خارجی Foreign First Winner

Project Title:
Investigation in Different Areas of
Cosmology and Gravitation

Researcher:
Thanu Padmanabhan (Ph.D.)

Country:
India

University:
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عنوان طرح:
تحقیقات در زمینه های مختلف کیهانشناسی و
نیروی جاذبه

محقق:
دکتر تانو پادمانابان

کشور:
هندوستان

دانشگاه:
مرکز دانشگاهی نجوم و فیزیک نجومی

Abstract:

Padmanabhan has made the following significant academic contributions: (i) he has provided an interpretation of semiclassical limit of quantum cosmology based on decoherence, which has been accepted as the basic paradigm. (ii) he has provided an interpretation of Planck length as the "zero point length" of the spacetime which anticipated several later developments in string theory etc. (iii) He is considered a leading expert in area of structure formation in the universe and has made significant contributions towards understanding nonlinear gravitational clustering (iv) His book on "Structure Formation in the Universe" has become a standard reference in the field; more recently, he has produced a three volume Course of Theoretical astrophysics which is well received by the community.