

New Frontiers in Theoretical Physics - XXXV Convegno Nazionale di Fisica Teorica and GGI 10th anniversary



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Gravity at large scales

Friday, 20 May 2016 14:40 (40 minutes)

We will review recent attempts at modifying gravity at cosmological scales, largely motivated by the aim of providing a dynamical explanation for dark energy. We will see that it is quite challenging to construct infrared modifications of gravity that are both theoretically consistent and cosmologically viable. We will finally present some work of our group on effective nonlocal modifications of GR, that appear to work remarkably well at a phenomenological level, and raises interesting questions from the field-theoretical point of view.

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