Origin of Space-Time

Scientific convenor

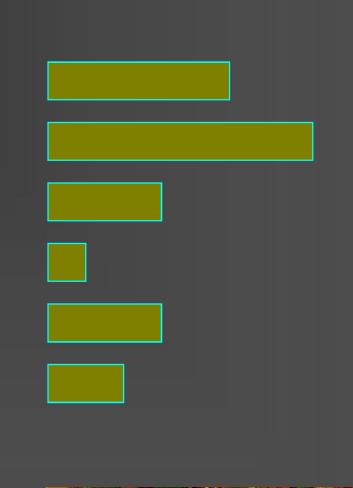
Soo-Jong Rey Seoul National University, KOREA

Issues

birth, evolution, death of the Universe strong curvature and quantum regime (big bang, big crunch singularity) emergent 4-dimensional spacetime (string theory, LQG, (D)brane worlds, large extra dimensions) anything else on Z near infinity

2006 - 2007

(D)brane cosmology
(non)critical string
flux compactifications
landscapes
loop quantum cosmology
modified gravity



2007-2008 activities

Spacetime foam Ellis, Mavromatos Nelson, Sakellariadou Loop quantum cosmology Lee-Wick standard model Espinosa Deformed Poincare, Lorentz symmetries Mourad, Joung; Ellis, Harries, Sakharov Time-dependent string background Alexander, Mavromatos, Tanner; Jokela, Keski-Vakkuri Naked singularity Babichev

Last Year, I advised you to...

a kan da ang kan sa kan sa

Shut up and Calculate!

anonymous

Naked Singularity

why potentially interesting? **NON-decoupling** between UV and IR anomaly; Callan-Rubakov effect wave equation + boundary condition at \Rightarrow Implications? a direct window to Planck scale physics? effects to early universe evolution?

Advice 2008

Light Bulb Was Never Invented By Merely Improving Performance of Candles.

Laser Was Never Invented By Merely Improving Performance of Light Bulb.