

Scientific convenor

Soo-Jong Rey

Seoul National University, KOREA

Z = infinity!

#### 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=infinity

#### 2006 - 2007

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

## Activity centered at

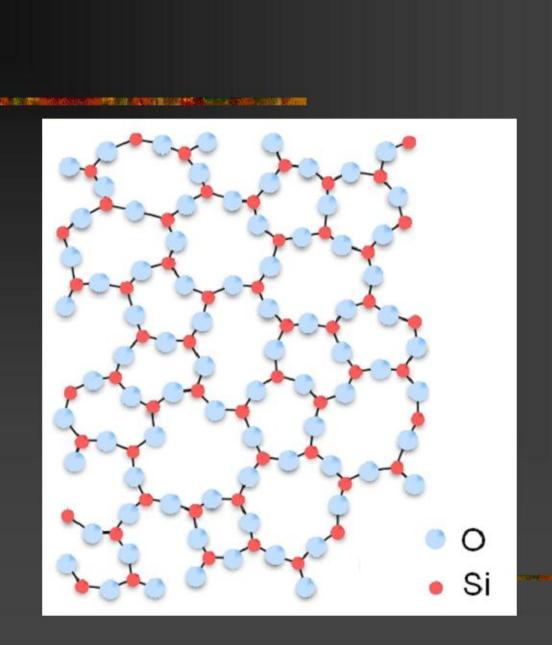
- Durham, Oxford, Athens, Ioannina
- Seoul, Helsinki, King's College
- Lancaster, Oxford, Helsinki
- King's College
- Durham, Copenhagen

Geographic diversity called for!

# Reflections on Landscape

wine (window) glass as the prototype





- no need to be anthropic
- Metastable vacua  $\sim \exp(N_{\text{Avogadro}} \ln 2)$
- relaxation time ~ 10<sup>2-3</sup> years

- universal
- scale dependent but not exponentially
- not by anthropic, use ab initio.

## Shut up and Calculate!

anonymous