

PANEL DISCUSSION

NON-RELATIVISTIC STRINGS AND BEYOND

Eric Bergshoeff

Jan de Boer

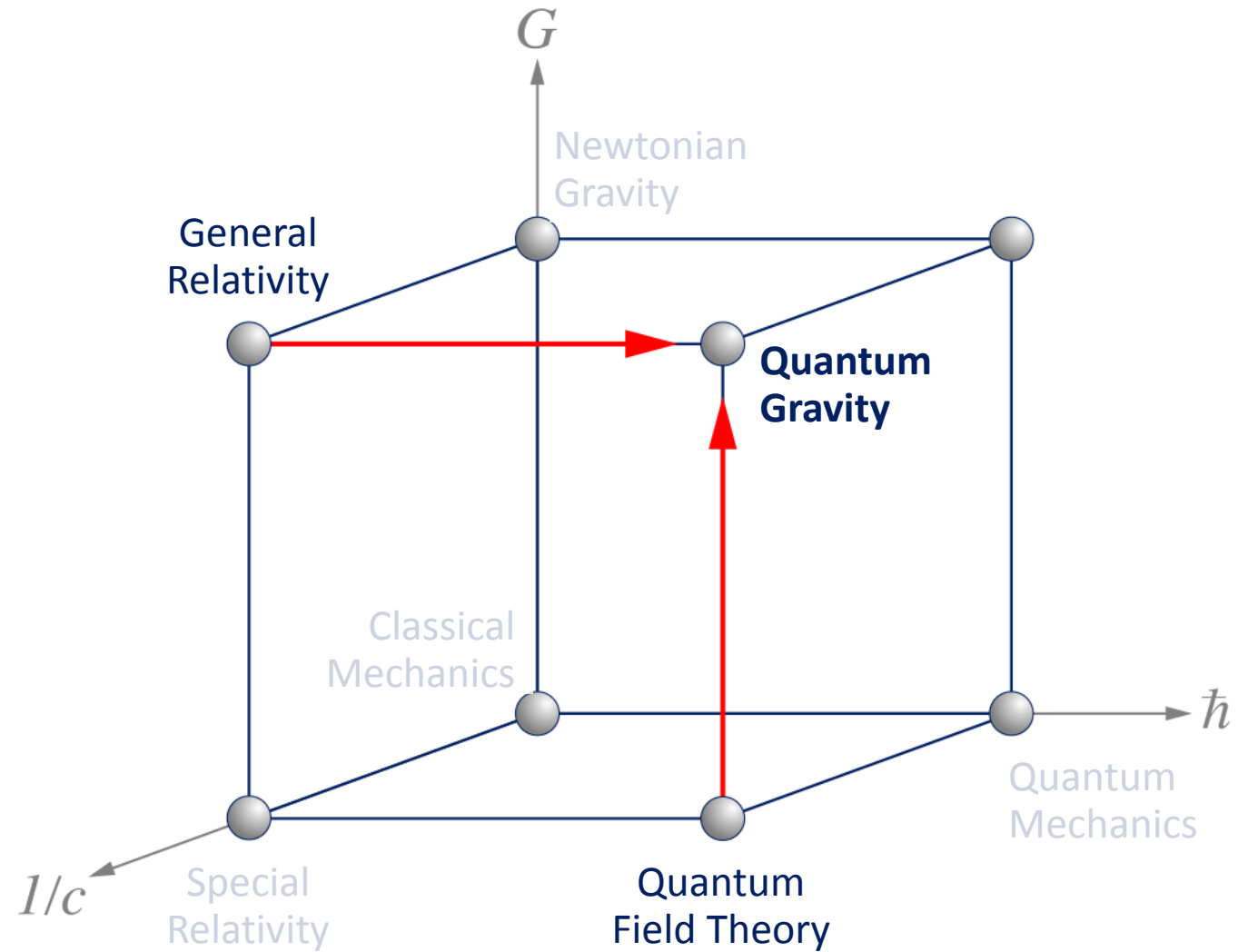
Elias Kiritsis

Non-Relativistic Strings

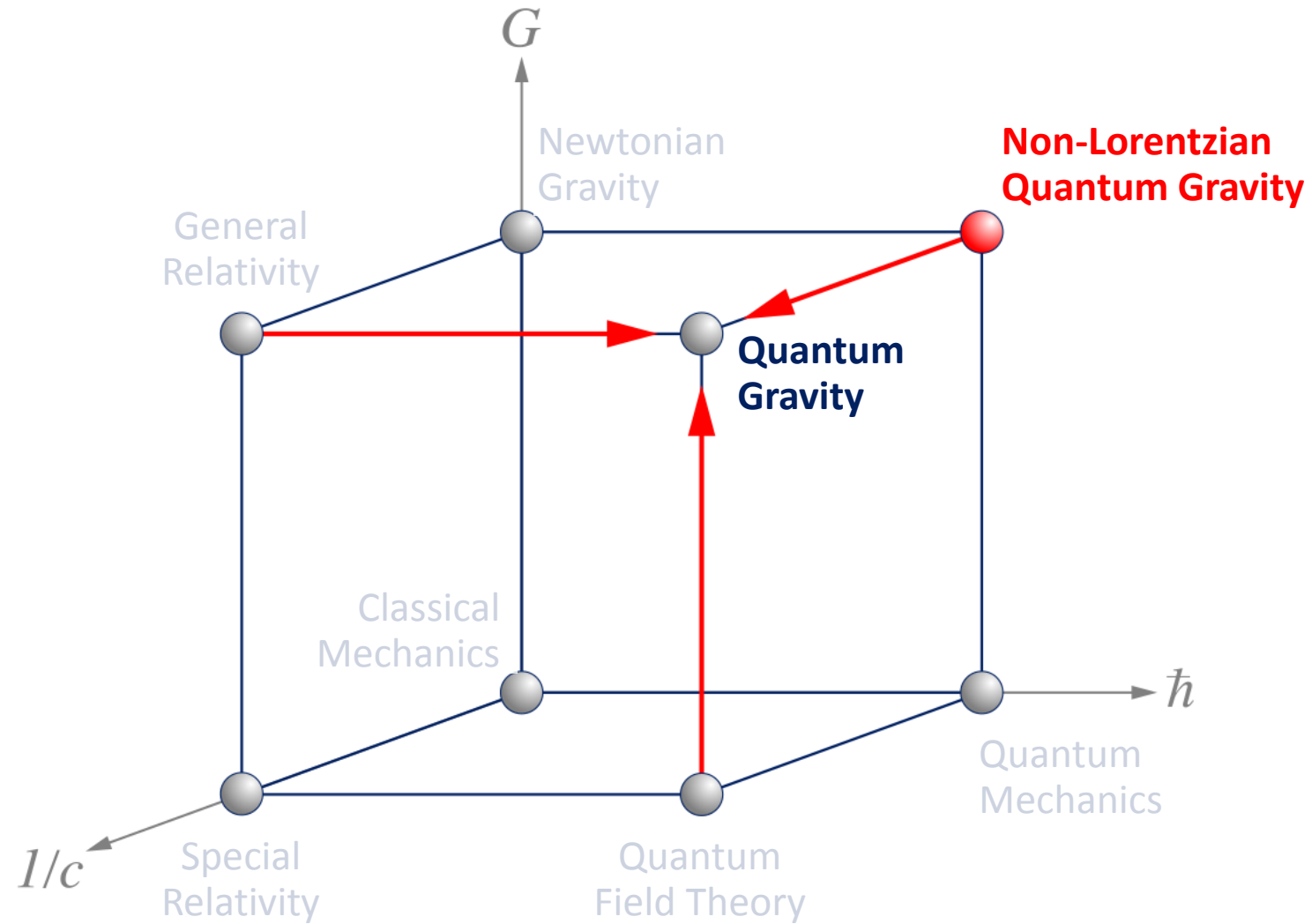


and beyond

Cube of physical theories



Cube of physical theories



Basic Questions

- Does Quantum Gravity require Lorentz symmetry?
- What is wrong with Non-relativistic String Theory?
- Relation with DLCQ, matrix string theory, NR M-theory ?
- Non-relativistic Holography?

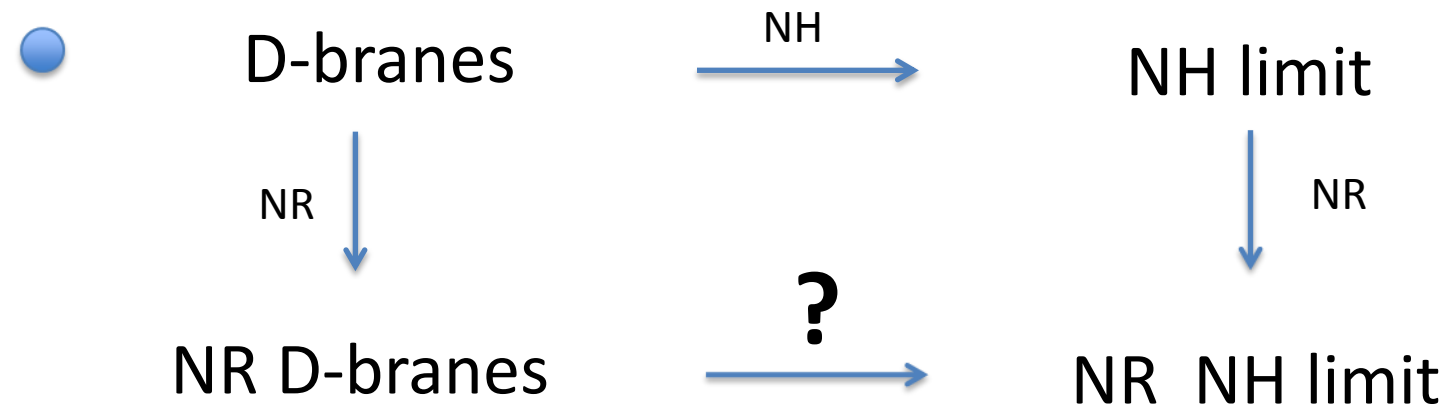
Talks by Rishi and Johannes

Talk by Troels

NR Holography?

Gomis, Gomis, Kamimura (2005); Bagchi, Gopakumar (1009)

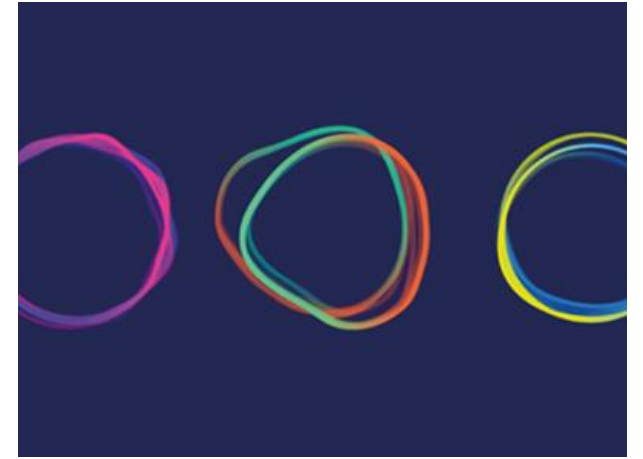
- Local an-isotropic scale symmetry
- NR limit of DBI actions exist
- There is relativity on the worldsheet



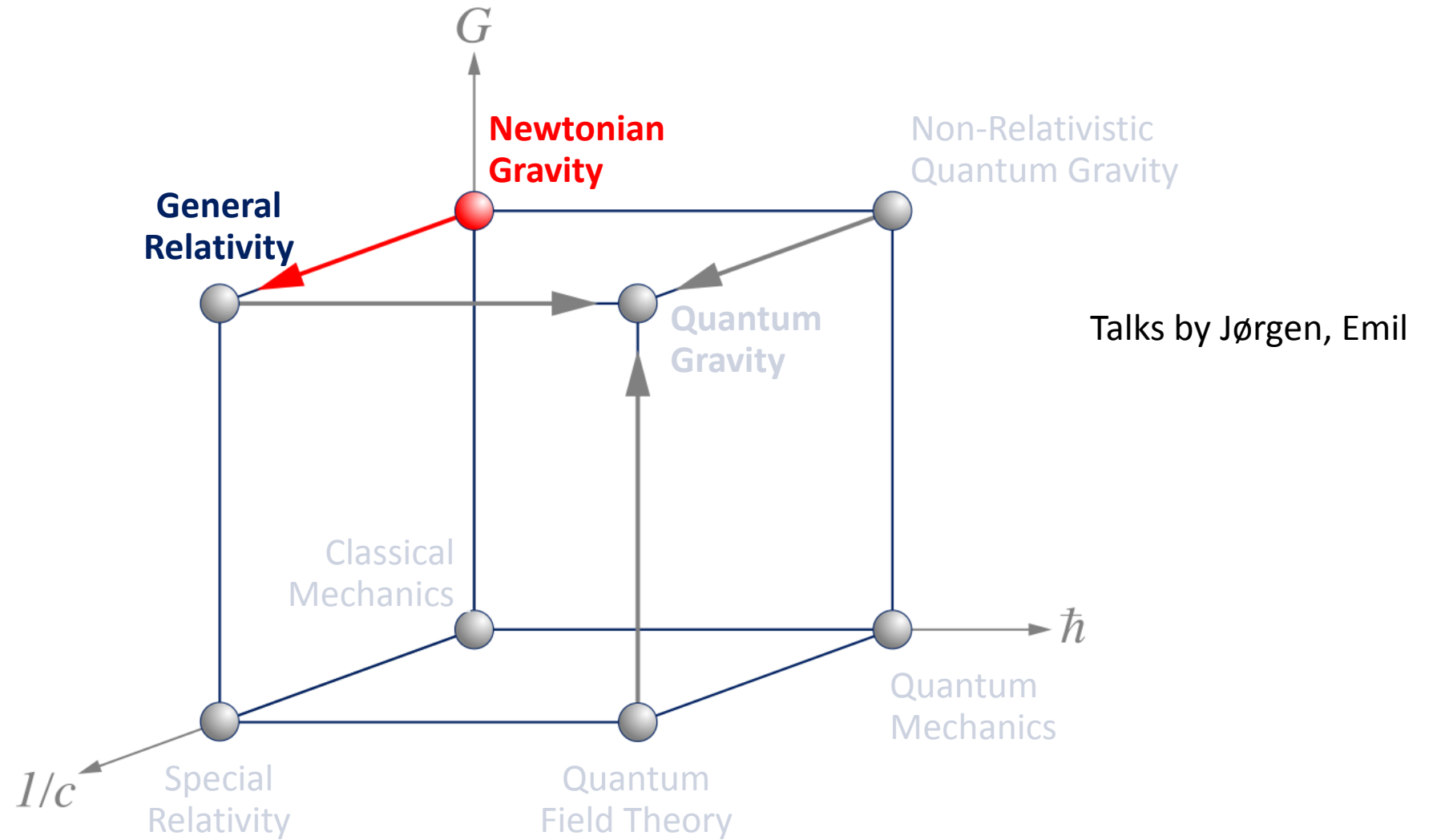
Non-relativistic (super-)string theory

is generating new ideas for

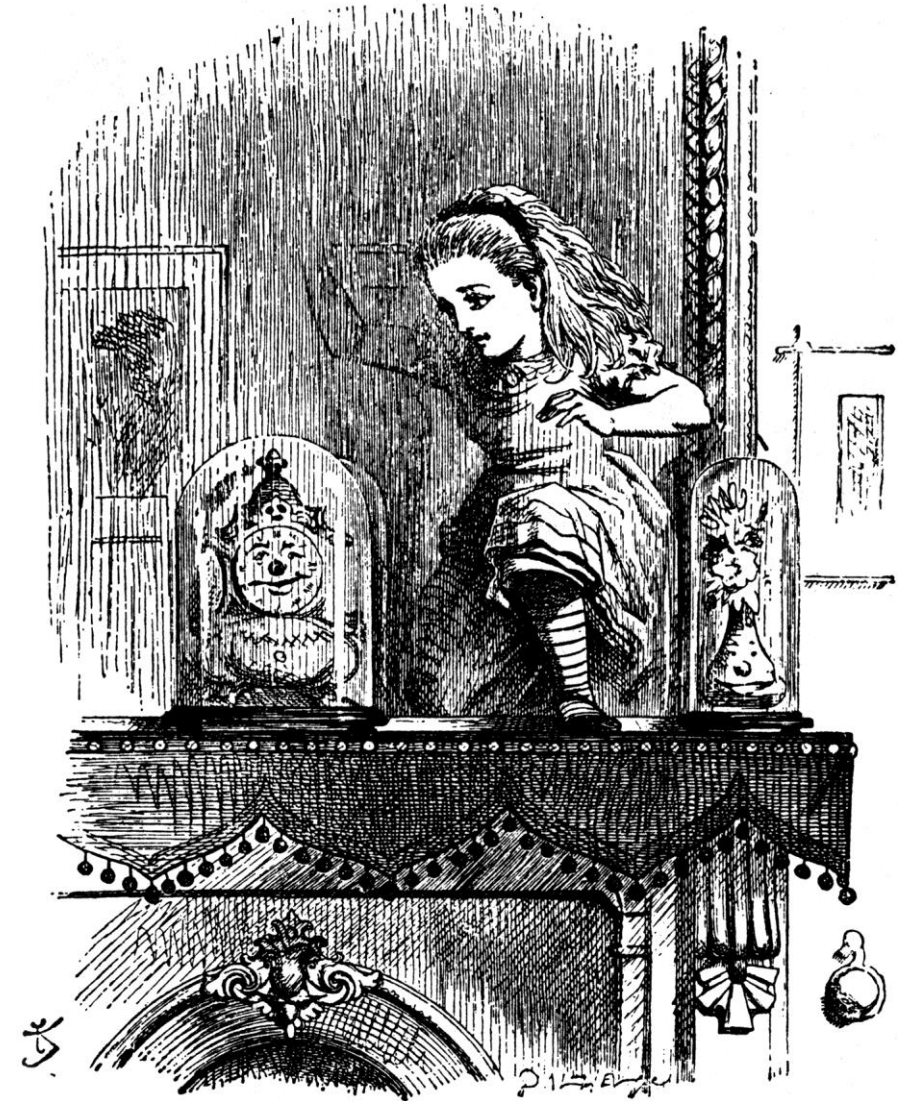
applied non-Lorentzian geometry!



Novel expansion and limit techniques



- Flat space holography
- BH horizons
- Dark Matter?
- Carrollian CFT



Condensed Matter Physics

- GMP modes in FQH effect
- Supersymmetry Talk by Silvia
- Fractons
- Localization