

Quantum structure of spacetime (QSPACE)

WG3: “gravity models”

- WG leader: H. Steinacker
- vice-leader: J. Barrett
- proponents:

C. Meusburger, C. Rovelli, L. Thorlacius

- members signed up so far (Doodle):

D. Grumiller, E. Nissimov, O. Bertolami, O. Lechtenfeld, M. Sakellariadou, M. Asorey, H. Steinacker, C.P. Martin, F. Vidotto, N. Toubas, M. Schlichenmaier, M. Buric, A. Borowiec, T. Jonsson, B. Durhuus, N. Obers, S. Melnjanac

- not yet signed up on Doodle: <http://doodle.com/xsb7demquukbfvri>
(many !)

gravity ↔ quantum structure of spacetime

many approaches represented:

- (canonical) QG, loop quantum gravity
- CDT
- matrix models
- NCG-inspired models
- string theory
- tensor models / group field theory
- ...(etc.)

“quantum geometry” arises in different ways

COST is **networking tool**

Strategy

organize meetings in **inclusive** spirit
achievements & problems

- focused workshops
 - broader WG meetings (!)
 - schools (training school)
for young postdocs/ advanced PhD
 - individual short-term visits
- **please provide ideas / suggestions!**

specific proposals for 1st period (so far):

- Tux Winter Conference on Quantum Gravity and Noncommutative Geometry
- Corfu 2015 Workshop on Noncommutative Field Theory and Gravity
- Nordic string meeting 2016