Today's talks

- Talk on quantum gravity:
 - Ed: Background-independent operator product algebra for an observer inside system Static patch in dS = observable region, empty dS has maximal entropy What if the observer did not always exist? Generalisation from QFT to string theory?
- Talks on cosmology:
 - i) Gabriele: Pre-big-bang cosmology from O(d,d) symmetry in string theory exact in α' Bounce/inflation, regular bouncing solutions in a 'Hamiltonian' reformulation of HZ approach Dilaton stabilisation? perturbations? validity of approximations?
 - ii) Michele: 'Loop Blow-up Inflation', post-inflation epoch with reheating from moduli decay Metastable dS model-building seems easier than quintessence If data prefer dynamical DE: axion quintessence from poly-instantons
- Talks on astrophysics:
 - i) Thibault: Computation of GW flux from black hole binaries by studying gravitational 2-body interaction Effective one-body approach, perturbative computation of 2-body Hamiltonian Analytical approach important on top of numerical relativity
 - ii) Eric: Tidal interactions in binary inspirals for neutron stars Importance of modelling tidal interactions to get GW flux, Newtonian vs relativistic description Cancellation of tidal numbers for BHs from internal symmetry/event horizon?
- Talk on foundations of QM:
 - Lajos: Post-quantum stochastic gravity proposal to improve semiclassical gravity Spontaneous wavefunction collapse which removes Schroedinger cat states Relativistic semiclassical gravity?