

Programme

Monday

10:00 coffee/tea

Thomas: Overview ARTHUS Key-issues Axis A / **Jan:** The mass function in relativistic cosmology

13:00 Lunch

Thomas: Two-scale models and scaling / **Quentin:** Cosmological Dark Matter as a morphon field

15:30 coffee/tea

Jan: The Green-Wald conjecture and its aftermath

Tuesday

10:00 coffee/tea

David: Cosmological averages, observables and spacetime structure

13:00 Lunch

Thomas: Overview ARTHUS Key-issues Axis B / **Martin:** Non-Gaussianity and signatures of cosmic topology

15:30 coffee/tea

Pratyush: Topological holes and their persistence

Wednesday

13:00 coffee/tea

Thomas: Overview ARTHUS Key-issues Axis C / Discussion of recent developments in the community

15:30 coffee/tea

Pierre: Fluid-comoving generalizations of the GR scalar spatial averaging formalism to arbitrary foliations

19:30 Round Table Dinner

Thursday

10:00 coffee/tea

Thomas: Summary on the closure problem / **Léo:** Closure with the Gauss-Bonnet-Chern-Avez theorem ?

13:00 Lunch

Nezihe: On the reciprocity relation for light propagation through multiple geometries

15:30 coffee/tea

Thomas: On light cone averaging and smoothing / General discussion

Friday 10:00 coffee/tea

Closing Discussion / Point on Workshops in 2018