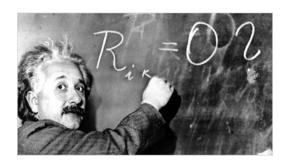
Advanced General Relativity

- Roberto Emparan
- Jaume Garriga
- Enric Verdaguer

 Pre-requisite: Introductory course to General Relativity

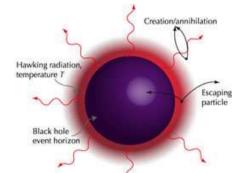
What will you learn?



- Advanced techniques in GenRel
 - Lagrangian formulation, Causal Structure

(Horizons)...

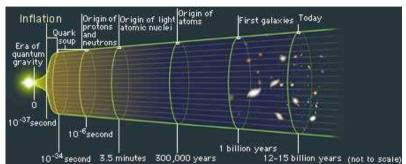
- Black Holes
 - Classical theory
 - Quantum effects Hawking radiation
 - Black hole thermodynamics
- Basic notions in Quantum theory of Gravity





What will you learn?

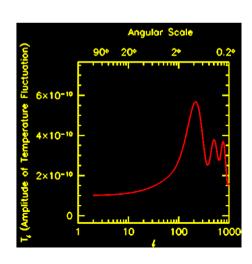
- Relativistic Cosmology
 - FRW universe



Cosmological perturbation theory

Cosmic Microwave Background

- Inflationary Universe
 - Origin of primordial fluctuations& large-scale structure



What is the course like?

- Theoretical be ready for math
- On blackboard we'll go into details
- Homework (weekly): essential practice + evaluation