

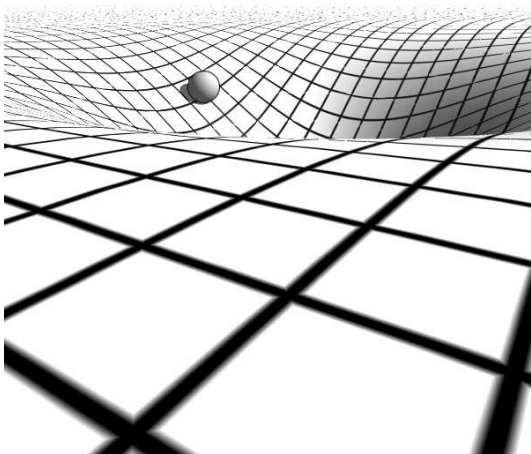
Loop(y) Gravity

Jakub Mielczarek

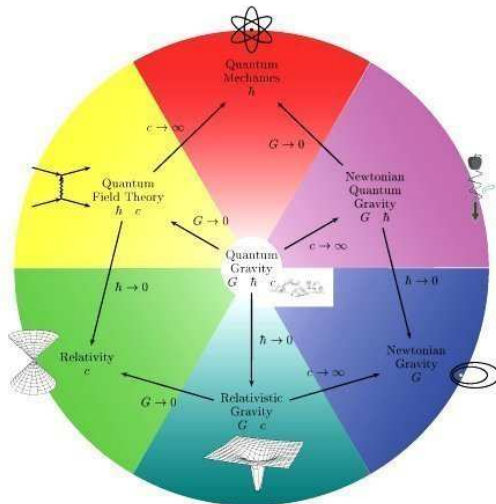
26 May, 2009

Gravitation

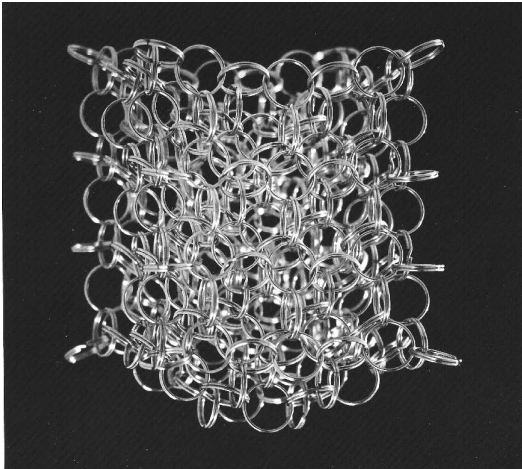




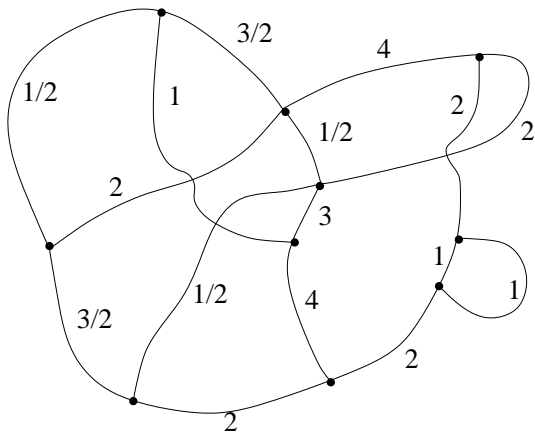
How to quantize gravity?

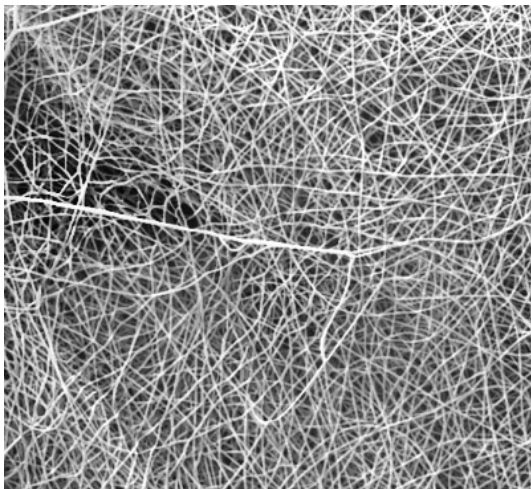


Loop Quantum Gravity



Spin network

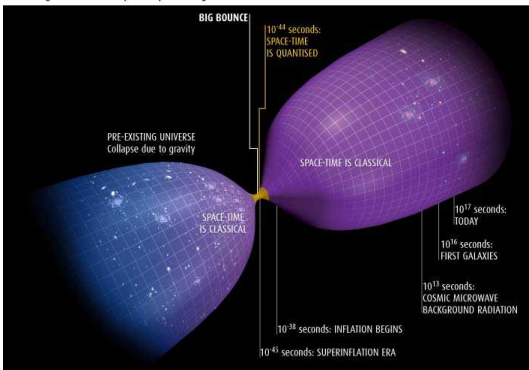




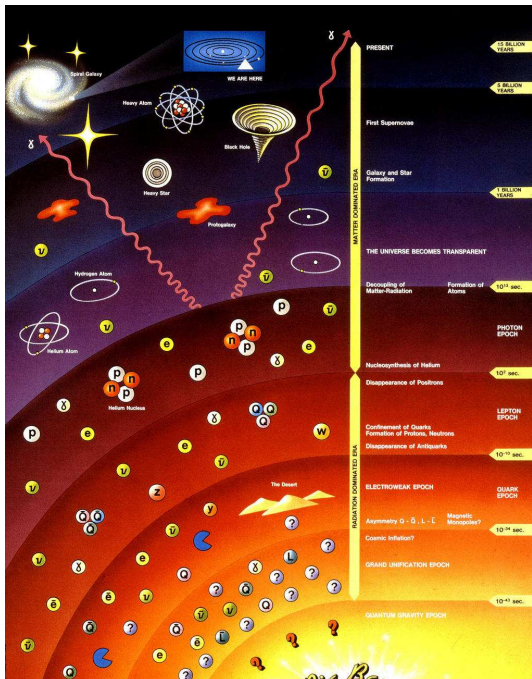
Big Bounce

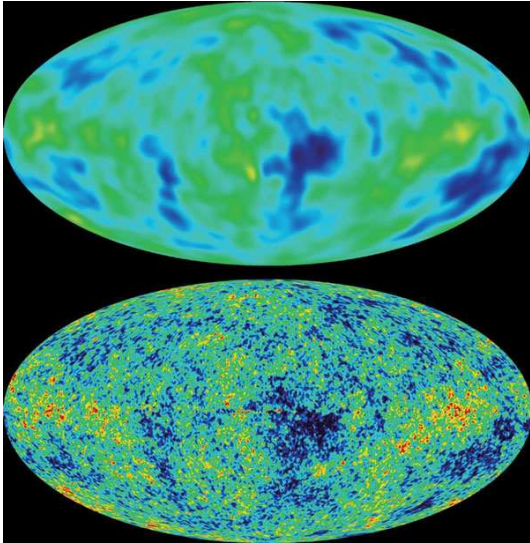
THE BIG BOUNCE

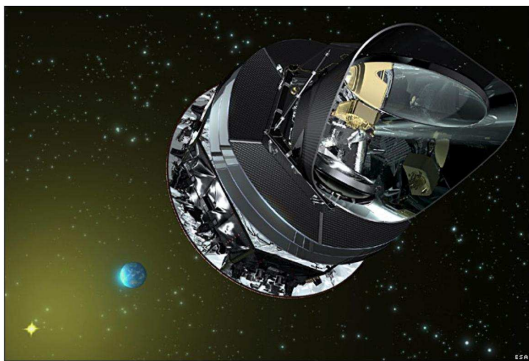
Loop quantum cosmology predicts that the universe did not arise from nothing in a big bang. Instead it grew from the collapse of a pre-existing universe that bounced back from oblivion











Quantum foam

