

Background

- Black holes form from stars that collapse because of their own gravity
- Black holes are believed by many to collapse for forever

The Problem

- If a black hole collapses for forever then it essentially collapses into a 'point'
- A 'point' is nonphysical and consequently, according to the laws of physics, should not exist
- Either our understanding of the laws of physics, or our understand of black holes is wrong

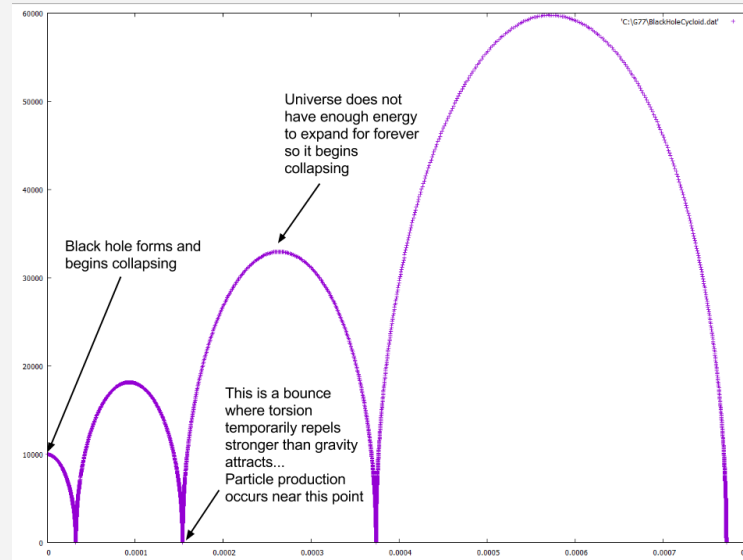
The Solution

Einstein–Cartan–Sciama–Kibble Theory

- This theory adds a component called "Torsion" to the equation which describes black holes
- The smaller in size a black hole gets, the stronger torsion repels
- At a certain point torsion repels stronger than gravity attracts

Black Holes

Dr. Poplawski, Dr. Haynes, Charles Peterson



The Results

- Black holes no longer violate our understanding of the laws of physics
- Black holes create universes

Wait What?

- Torsion prevents the black hole from collapsing beyond a certain point
- The matter inside of the black hole has to go somewhere
- A big bang occurs
- Think about this... Black holes are essentially reverse big bangs, is this just coincidence?

Our Verification

- We programmed the modified equation of black holes into a computer
- We then simulated the formation of the black hole and its following events

Our Results

...to be continue