Life begins HGD

Big bang turbulence HGD $10^{-43} - 10^{-35}$ s

Panspermia begins HGD

Life begins (?) ΛCDMHC

No Dark Energy, Big Crunch HGD

Dark Energy

Accelerated Expansion

Development of Galaxies, Planets, etc.

Afterglow Light Pattern 400,000 yrs.

Inflation

Quantum Fluctuations

1st Stars about 400 million yrs.

Big Bang Expansion

13.7 billion years

HGD versus LCDMHC timelines

NASA, WMAP 2006