THRESHOLD THE BIG BANG

The Big Bang remains a mystery in many ways. We have a lot of evidence for what happened just after the event but can only guess what existed before it, if anything, and what conditions made it possible. Even so, we know the Big Bang is an important threshold because it created time, space, and the "building blocks" for everything in the known Universe.

13.7 BILLION YEARS AGO

13.6

Grand Unification
Time after the Big Bang

O accord

10 -90

10⁻³⁵

1 10 mms

1 househill

Lepton Photon

Time after the tity theng 300 years Reionization
Millions of years after the Big
100 300

Reconstration

f years where the Big Bang Sillions of years

| 300 500 700 900 13

THE BIG BANG

INGREDIENTS

We can only speculate



GOLDILOCKS CONDITIONS

We can only speculate

NEW COMPLEXITY

The Universe

Time and space

Different forms of energy (including gravity and electromagnetism)

Different forms of matter (including quarks and electrons)