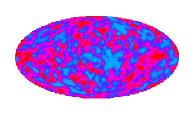
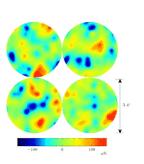
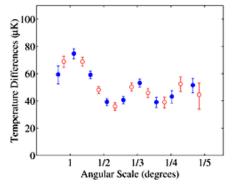
SEVEN (7) THINGS THAT EVERYONE SHOULD KNOW ABOUT

THEIR UNIVERSE







- THE UNIVERSE AND ALL OF SPACE ARE EXPANDING FROM A BIG BANG BEGINNING
- THE MICROWAVE ECHO OF THE BIG BANG WITH US TODAY ALLOWS US TO SEE BACK TO ALMOST THE BEGINNING
- 3. IN THE VERY BEGINNING, THE UNIVERSE A HOT SOUP OF QUARKS AND OTHER ELEMENTARY PARTICLES
- 4. STARS ACCOUNT FOR LESS THAN ONE PERCENT (1%) OF ALL THE STUFF IN THE UNIVERSE TODAY
- 5. WE ARE MADE OF THE STAR STUFF, BUT THE UNIVERSE IS NOT
- 6. THE EXPANSION OF THE UNIVERSE IS SPEEDING UP, NOT SLOWING DOWN
- 7. ALL OF THE DEUTERIUM IN THE UNIVERSE AND MOST OF THE HELIUM WERE MADE WHEN THE UNIVERSE WAS SECONDS OLD



## SEVEN (7) QUESTIONS COSMOLOGISTS HOPE TO ANSWER IN THE NEXT 10 YEARS

- WHAT NEW FORM OF MATTER IS THE DARK MATTER THAT ACCOUNTS FOR 33% OF THE UNIVERSE AND HOLDS OUR GALAXY TOGETHER MADE OF?
- WHAT IS THE DARK ENERGY THAT ACCOUNTS FOR 66% OF THE UNIVERSE AND WHOSE REPULSIVE GRAVITY IS CAUSING THE UNIVERSE TO SPEED UP?
- DID GALAXIES LIKE OUR OWN WHICH ARE 100,000S OF LIGHT YEARS ACROSS BEGIN AS SUBATOMIC QUANTUM FUZZ?
- DID THE UNIVERSE UNDERGO A TREMENDOUS GROWTH SPURT (INFLATION) WHEN IT WAS A FRACTION OF A SECOND OLD, AND IF SO, WHAT CAUSED IT?
- · WHAT CAME BEFORE THE BIG BANG?
- · IS OUR UNIVERSE ACTUALLY A MULTIVERSE?
- MANY, IF NOT MOST, OF THE BILLION TRILLION STARS IN THE OBSERVABLE UNIVERSE HAVE PLANETS;
  HOW MANY OF THEM ALSO HAVE LIFE?

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