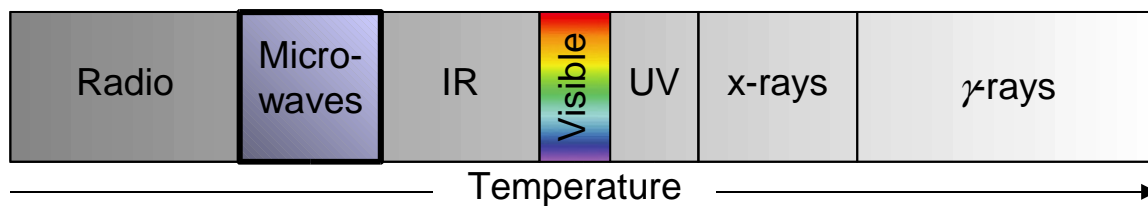


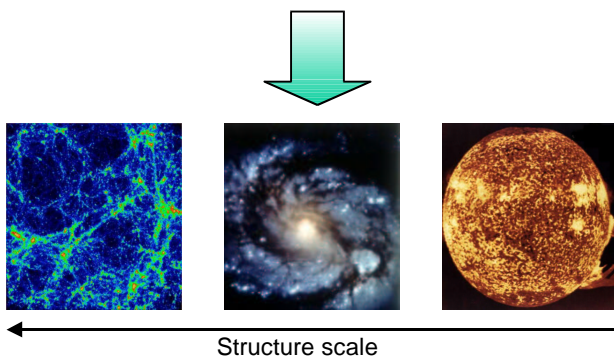
The Cosmic Microwave Background Radiation

PhD student Erik Elfgrén

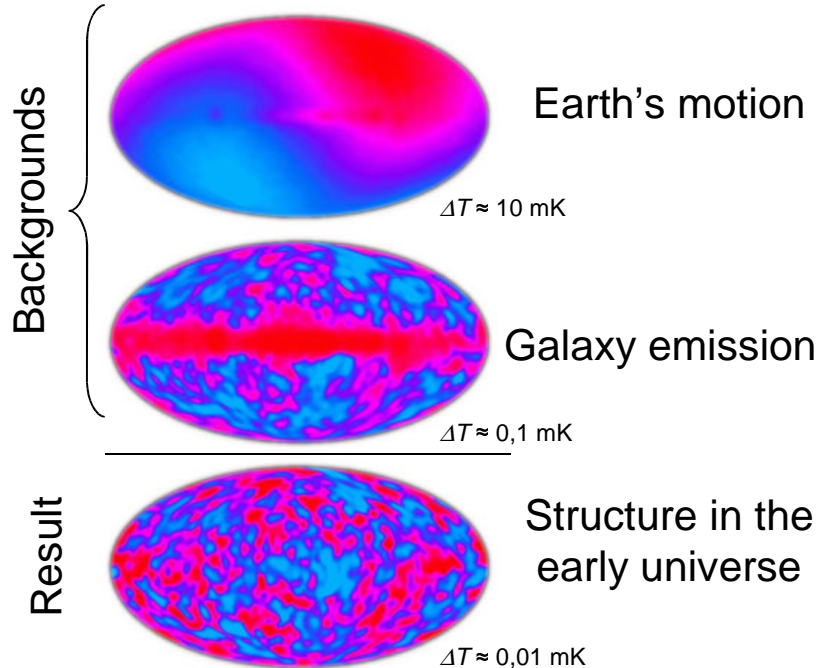


Properties

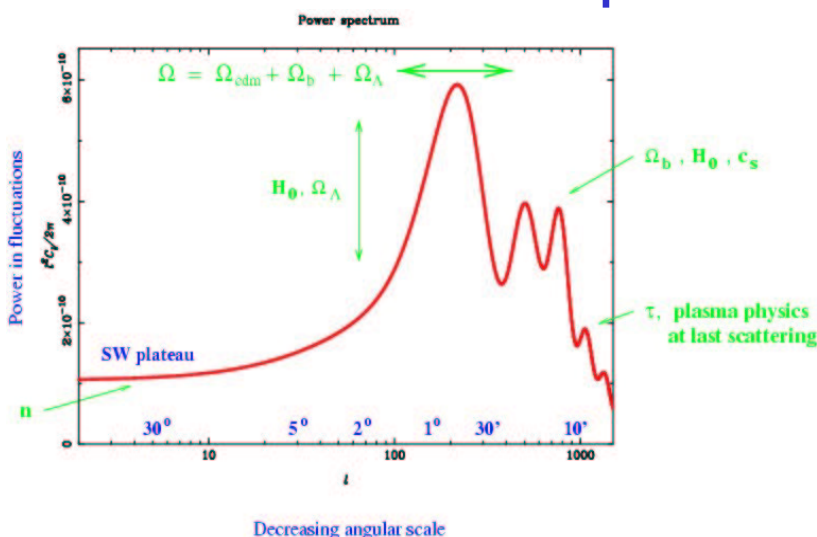
- Omnipresent radiation
- Emitted when the universe was about 300 000 years old
- Almost isotropic
- Temperature $T \approx 2,725$ K
- ΔT variations in T are the seeds for galaxies, stars etc



ΔT from different sources



The power spectrum



Answers the questions:

- Expansion rate of the universe?
- Accelerating universe?
- Dark matter?
- Cosmological constant?
- Inflation?
- Superstring theory?