

## SECTION OVERVIEW

### 1.22: Overview of Thermal History

**\*\* under construction \*\***

We should have a graphic here with time on the top axis and scale factor on the bottom axis, and mass density on the y axis. Label epochs such as double Compton freeze-out,  $e^-/e^+$  annihilation, quark-hadron phase transition, weak interaction freeze-out, BBN, matter-radiation equality, and recombination. Maybe we stop a little ways after recombination.

We could have three such graphics, one with speculative very early-universe stuff (starting with inflation and reheating), one from quark-hadron phase transition to recombination, and one from first stars and quasars to present day.

#### Topic hierarchy

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