## Note guide for The Standard Model (Part II)



**The Future of the Universe:**

**Curvature of Space:**

**Flat space Positive Curvature Negative Curvature**

**C = 2πr**

**Triangles = 180o**

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**The Search for 3 numbers:**

**Ho** - The Hubble constant. The current rate of expansion. We think it is 70.1±1.3 km/s/Mpc

**qo** - The deceleration parameter. Rate of braking due to gravity

**λ** - The cosmological constant. Anti-gravity. (Nobody likes this one much)

**Ω –** Combination of **Ho** and **qo**. Index of space’s “flatness”

**Inflationary Hypothesis (to explain why the universe is so flat)**

**Age of the universe.**

**Problems with the big bang:**

**Missing Matter**

**Big Bang Paradoxes**