Hawking &M.

Universe - stars, planets, galaxies, ...
- for away

Speed of light - 186,000 mi/s Alpha Centavi C - 4 light years Earth's Evolution F 107 1 Evidence - Stars motion Our Position in the Universe geogentric -> heliocentric Scientific Theory

good Theory - Hawking

accurately describbe a

large class of observations

Land to be as simple as p e definite predictions Karl Popper - good theory predictions can be proved or talsified by making observations Need Community to verify 18 there one theory of the universe. Forces of universe 1) Electrical + Magnetic Maxwell 1860 EM Waves @ Weak Force - beta decay 3 Strong Force - quarks J Standard Model - Glashow, Salam, Weinberg @ gravitation - general Relativity