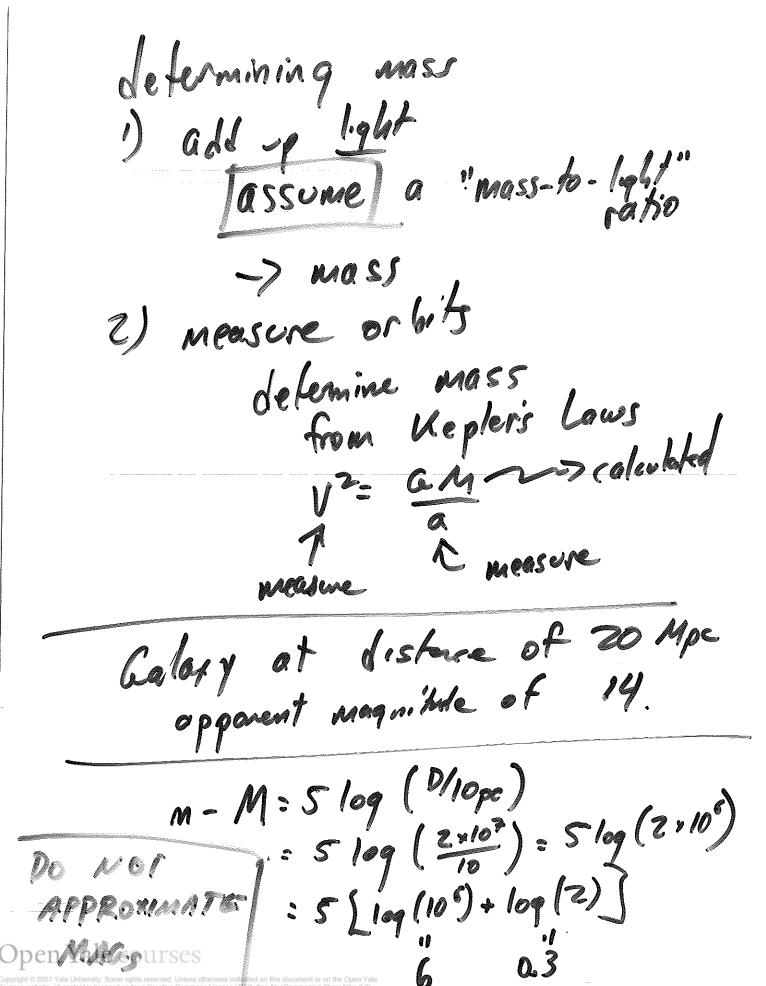
The story so fer Hubble diagram (Hubblis Law) dobserve with large "look back time" a post was different Ly Big Bong cosmology -> describe past -> predict sutre assure gravity is dominat force Perir = 3H2/8TFG 2.>1 8/per = 52 () "Big Count" DETERMINE DENSITY OF Deen Yale Courage of Mag S Surviversity. Some rights reserved. Unless otherwise indicated on this document of the season of the divide by volume



= 5 × 6.3 = 31.5

$$V = \frac{200 \text{ Gm/s}}{2 \text{ M}}$$

$$V = \frac{200 \text{ Gm/s}}{2 \text{ M}}$$

$$Q = \frac{200 \text{ Gm/s}}{2 \text{ M}}$$

$$Q = \frac{200 \text{ Mpc}}{2 \text{ M}}$$

$$Q = \frac{200 \text{ Mpc}}{2 \text{ M}}$$

$$Q = \frac{1000 \text{ M}}{2 \text{ M}}$$

$$Q = \frac{12 \times 10^{5})^{2} \text{ K} \times 10^{30}}{4 \times 10^{30}}$$

$$Q = \frac{12 \times 10^{30}}{4 \times 10^{30}} = \frac{4 \times 10^{30}}{4 \times 10^{30}} \text{ M}$$

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Frontes 2 Contonesies in "dynasia" masses (defended by orbits and galus and galariny clustes) are much 6.990 Bur you expect from light by a factor 10 DARU MATTER What is it? hypothesis #1: some hand of unhuseun subalone pultele y have mess > no mtracker with light Workly Interactive Massive Robby WIMPS no direct detections

44 poles. 3 # 2: churchs of ordinary make they had been to sunt highest can't be too small "dust" -> world b observed by 2 glow in 19ht very large macces dework of disrupt the orbits of can't be two big Sters COULD HAVE Sta-wassed dark Mings un holes of goldenies Massne Ashophysical Compact
Halo Objects MACHOS

quarifortoad lensing water

ach the a loss naks Shright aligned bolds for Lui male were was TOO FEW to apple Dich Marks No MACHUS MMPs () most people believe 6 Prontice bosis

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