

PHOTONS

$$pV = \frac{1}{3} u$$

$$(\gamma - 1) = \frac{1}{3}$$

$$\gamma = 1 + \frac{1}{3} = \frac{4}{3}$$

$pV^{4/3} = \text{constant}$ FOR A HOT BLUE STAR

YOU KNOW HOW GRAVITATION EFFECTS PRESSURE IN SUCH A STAR

IS IT ADIABATIC → IN A VACUUM.