

### **stars galaxies and the pdf**

Planets ORBIT Stars (Suns) ! Stars orbited by Planets are Solar Systems (all Stars?) ! Solar Systems form from Nebulas and recyle back into Nebulas (dust & gas) ! Nebulas and Solar Systems ORBIT within Galaxies (huge Star Cities) ! Many Galaxies fill our Universe

### **Moons, Planets, Solar System, Stars, Galaxies, in our**

A galaxy is a gravitationally bound system of stars, gas, and dust. Galaxies range in diameter from a few thousand to a few hundred thousand light-years. Each galaxy contains billions ( $10^9$ ) or trillions ( $10^{12}$ ) of stars. In this activity, you will apply concepts of scale to grasp the distances between stars and galaxies.

### **Stars and Galaxies - StarDate Online**

Galaxies in the Universe - o N

### **Galaxies in the Universe - o N**

Moving Galaxies: Stars, Galaxies, and the Universe ... Stars, Galaxies, and the Universe The Expanding Universe ... matter that astronomers can see, such as stars and nebulas, makes up as little as ten percent of the mass of galaxies. The remaining mass in galaxies exists

### **Stars, Galaxies, and the Universe The Expanding Universe**

Chapter 15 Stars, Galaxies, and Universe Classifying Stars All stars are huge spheres of glowing gas (mostly hydrogen). Characteristics used to classify stars include color, temperature, size, composition, and brightness. Stars' colors can be deceiving. The coolest stars appear reddish, while the hottest stars appear bluish. Our sun is in

### **Chapter 15 Stars, Galaxies, and Universe**

simple model, we determine the total number of stars brighter than  $R = 15$ , as well as the distribution among the types and classes. This model reproduces fairly well the total number of stars in the Tycho-2 catalog, as well as the star-counts of the Galaxy model employed for the GAIA mission.

### **Connecting the Physics of Stars, Galaxies and the Universe**

• Milky way stars, other galaxies • Hubble Deep Field galaxy survey • distant galaxies • COBE and WMAP • the early universe We also work together to create large sky surveys. What do astronomers study?

### **Astronomy**

Galaxy Formation and Evolution 3 1 INTRODUCTION Most of the visible matter in the universe is concentrated in galaxies, which are the basic astronomical ecosystems in which stars are born, evolve, and

### **GALAXY FORMATION AND EVOLUTION - Yale Astronomy**

Major Components of the Galaxy • The bulge: central, mostly old spheroidal stellar component: • The halo, contains: •  $\sim 5 \times 10^9 L_{\text{sun}}$  •  $\sim 2 \times 10^{10} M_{\text{sun}}$  Galactic center is about 8 kpc from the Sun, the bulge is a few kpc in radius (i) Field stars - total mass in visible stars  $\sim 10^9 M_{\text{sun}}$ . All are old, metal-poor, have random motions. Very low density.

### **Our Galaxy, The Milky Way - Caltech Astronomy**

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