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10 15 of galaxies in the virgo  
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**dominant type of galaxy in the universe overall lenticular galaxies apart from the above classification of spiral and elliptical galaxies there exist some disk shaped galaxies with**

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**no trace of elliptical arms'**

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**are the places where gas turns  
into luminous stars powered by  
nuclear reactions that also produce  
most of the chemical elements  
but the gas and stars are only the tip  
of an iceberg a galaxy consists**

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**mostly of dark matter which we  
know only by the pull of its  
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shows that  $v_{pec} \propto 1/t$  a galaxy's peculiar velocity  $v_{pec}$  falls in exactly the same way as the momentum of a photon is reduced according to equation 7.11 the best measured peculiar motion is that of

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**below the critical value 1 or the virgo cluster contains more than its fair share of luminous galaxies so that the excess mass density  $\Omega > 1$  4 some astronomers favor the suggestion that the**

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**distribution of luminous matter is  
lumpier than that of the total'  
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galaxies also change over time the  
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*with the nearby andromeda galaxy  
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*June 1st, 2020 - problem 7 2 the  
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*grow to density must be at least as  
great as the free fall time  $t_{ff} \approx 1/\sqrt{g}$   
of equation 3.23 since cosmic  
expansion must first be halted  
locally in problem 4.6 we saw that  
for the milky way with an average*

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*density about  $10^{-5}$  crit this minimum  
time is  $3 \times 10^8$  years or  $0.03 \times t_h$   
the expansion age given by  
equation 1.22'*

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is at a distance of about 18  
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