Problem Set on chairs Test in one week (!) test propodries posted later last yes test 5 today or tomorrow OPEN book No calculators (or other electronics) + extra review session weds 7:15pm

lots of hot Jupikers

by now: plants in much (for years)

longer orbits in some

Cosses

(non-smusadd time

velocity curves

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HD209458 6) hot Jupiter discovered by radial velocities. and Men ... TRANSITY DISCOVERED dip in light due to plant passing across the stor D. Sa edge requires precisely a ligenment This

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Finding Planets Directly from Transits observe a cluster of stors
30,000 stors

Sun-like Kom radial velocities a 1/10 stes have bot suprites n 1/100 het Jypiks is aliqued property to get a knowsit => predict: 30 TRAUSITS result: ZERO Mansits WHY?) in clusters stars collide or near collisions disrupt placetory or bits e material within Open Yale Courses are licensed
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Use fine mitations and further explanations on the

amouts of heavy Clausets sters one mostly H, He "metallicity" = Ruckson of clouds heave Man H, He Sont metallierty 227. high metallicity stes (> solv) MORE 1.12/2 & have plants STAR CLUSTER ARE LOW METALLICITY So ... No plants NEXT EXPERIMENT center of galaxy lots of stors but less dense Than in conter of claster Open Yale courses

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If you have both radral velocity measurements

adral velocity measurements

mass of planet AND transits -> radius of plans! THEN, donsity = 8 = mass volume = 4 T R3 Water: 1 gm/cobic cechunter = 1000 hg/cubic meter racks = much higher during hot Jupiters han low donsy => ice balls Open Yale courses

~ 1000 degree

arat Mukry MIGRATION

make Jepikes in outer solo system

Jungrake into innor

Solor system

big things wells slowly

surface area is low

volume

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