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Odd Living Universe |
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*Exoplanets: Crash
Course Astronomy*
#27 Could We Ever

Live On A Different
Planet? | Planet

Hunters | Spark The
35th Bunyan Lecture:

Sara Seager -

"Exoplanets and the
Search for Habitable

Worlds" *Imagining
Extrasolar Planets*

The Golden Age of
Exoplanet Exploration

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(live public talk)

Introduction to
Astronomy: Crash

Course Astronomy #1

Sniffing Alien

Atmospheres:

Exoplanet

spectrophotometry -

Daniel

Angerhausen(SETI

Talks 2016) 10

Recently Discovered

EARTH LIKE

PLANETS ? The 10

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Strangest Planets in
Space That Defy All
Logic NASA discovers
Earth-like planet in
'habitable zone...

Exoplanet Size
Comparison 4K

~~Swimming in an
Oceanic Exoplanet 9
Earth-Like Planets~~

~~We Can Move On
Right Now The Scale
Beyond The Universe~~
ANOTHER EARTH:

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Documentary HD
Hurricanes, Cyclones,

and Typhoons Size
Comparison: What is
a Tropical Cyclone?

~~Top 10 Recently
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LIKE PLANETS~~

Searching For Earth-
Like Planets - Andrew
Howard - 3/14/2018

PTE Speaking - Retell
Lecture - with

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exoplanet revolution:

*Professor Didier
Queloz CofC
Undergraduates,
Professor Discover
New Extrasolar Planet*

Science Behind The
News: Extrasolar
Planets *Lesson 14 -
Lecture 3 - Extrasolar
Planets - OpenStax*

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Searching for

Exoplanets with Dr.

Jessie Christiansen

Planets and

Exoplanets Size

Comparison:

Potentially Habitable

Exoplanet, Dwarf

Planets and More

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Astronomy ...

Extrasolar Planets
Astronomy 154 Lab 7
... least 17 billion
Earth sized planets in
the Milky Way alone.
The key to detecting
these planets is to
employ a variety of
search methods over
widely different parts

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of the galaxy, Student

because each method
of ... these answers

on the back of the
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Part1.

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planets. All of them

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rely on detecting a planet's effect on its parent star, to infer the planet's existence.

ESA - How to find an extrasolar planet
An exoplanet or extrasolar planet is a planet outside the Solar System. The first possible evidence of an exoplanet was noted in 1917, but was not ...

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Lab 15 Exercise -
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Background Material
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Complete the following sections after reviewing the pages in NAAP Lab #12, entitled Introduction, Doppler Shift, Center of Mass, and ExtraSolar Planet Detection. Question 1: (5 points) Using the picture below, describe the position

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in the star's orbit for
each of the 4 letters
marked on the radial
velocity curve (for ...

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...

Answers Keywords:
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Astronomy Education.
NAAP – ExtraSolar
Planets 2/10 . Part I:
Exoplanet Radial
Velocity Simulator
velocity radial curve
system planet
question star mass

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inclination planets
radial velocity velocity
curve radial velocity
curve extrasolar
planets click set
preset labeled preset
labeled option ...

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Background Material
Complete the
following sections
after reviewing the
background pages
entitled Introduction,
Doppler Shift, Center
of Mass, and

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ExtraSolar Planet
Detection. Question 1:
Label the positions on
the star's orbit with
the letters
corresponding to the
labeled

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ExtraSolar Planets –
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Exoplanet Radial
Velocity Simulator

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Planet Student Introduction Open up the exoplanet radial velocity simulator.

You should note that there are several distinct panels: • a 3D Visualization panel in the upper left where you can see the star and the planet (magnified considerably).

~~ExtraSolar Planets~~

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~~Student Guide Part I:~~ Exoplanet ...

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Astronomers have devised some ingenious indirect methods to detect distant planets, known as “extrasolar planets,” or “exoplanets.” Even if the planet cannot be seen directly, we can see its effect on the star. Using this

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Technique (and a few
other methods)
Guide Answers

astronomers have

now discovered over

500 extrasolar planets

(and counting)!

~~Extrasolar Planets |~~

~~Answers in Genesis~~

The NAAP Extrasolar

Planets Lab

introduces the search

for planets outside of

our solar system

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Using the Doppler and transit methods. It includes simulations of the observed radial velocities of singular planetary systems and introduces the concept of noise and detection.

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~~NAAP~~

The NAAP Extrasolar
Planets Lab

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pedagogical objectives are designed to help

students understand some of the ways extrasolar planets are discovered and some data analysis and noise concepts.

Manuals. Student Guide: PDF version, MS Word version; Course Integration.

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~~Extrasolar Planets~~

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~~BOOKLECTION~~

Student answers should generally agree with the answers provided, but shouldn't be marked as incorrect for not matching exactly.

Extensions Kepler
Exoplanet Discoveries

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- Click on each planet referred to in the student worksheet to view an interactive of the exoplanet system, the light curve that led to its discovery, and a chart pinpointing its location in the sky.

Contains 250
questions and

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Bookmark File PDF Extrasolar Planet Student answers about astronomy, particular for the amateur astronomer.

The past decade has delivered remarkable discoveries in the study of exoplanets. Hand-in-hand with these advances, a theoretical understanding of the myriad of processes

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that dictate the formation and evolution of planets has matured, spurred on by the avalanche of unexpected discoveries.

Appreciation of the factors that make a planet hospitable to life has grown in sophistication, as has understanding of the context for

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biosignatures, the remotely detectable aspects of a planet's atmosphere or surface that reveal the presence of life.

Exoplanet Science Strategy highlights strategic priorities for large, coordinated efforts that will support the scientific goals of the broad exoplanet science

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community. This report outlines a strategic plan that will

answer lingering

questions through a

combination of large,

ambitious community-

supported efforts and

support for diverse,

creative, community-

driven investigator

research.

Research on

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extrasolar planets is one of the most exciting fields of activity in astrophysics. In a decade only, a huge step forward has been made from the early speculations on the existence of planets orbiting "other stars" to the first discoveries and to the characterization of

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This breakthrough is the result of a growing interest of a large community of researchers as well as the development of a wide range of new observational techniques and facilities. Based on their lectures given at the 31st Saas-Fee Advanced Course,

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Andreas Quirrenbach,
Tristan Guillot and Pat
Cassen have written
up up-to-date
comprehensive
lecture notes on the
"Detection and
Characterization of
Extrasolar Planets",
"Physics of Substellar
Objects Interiors,
Atmospheres,
Evolution" and
"Protostellar Disks

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Formation". This book will serve graduate students, lecturers and scientists entering the field of extrasolar planets as detailed and comprehensive introduction.

This volume addresses a new opportunity in the

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Planetary Sciences--to
extend our exploration
outward to discover
and study planetary
systems that may
have formed or are
forming around other
stars. It concludes
that a coordinated
program of
astronomical
observation,
laboratory research,
theoretical

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development, and understanding of the dynamics and origins of whatever may be found would be a technologically feasible and potentially richly rewarding extension of the study of bodies within the solar system.

The 16 lessons in this
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module introduce students to the solar system through an investigation of the planets and the sun. Students explore the earth/sun relationship in terms of the day/night cycle and the year cycle. As well, students investigate the characteristics of the moon, its phases, and

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its eclipses. Students
also explore gravity
and the

constellations, and
the history of space
exploration. Also
included: materials
lists activity
descriptions
questioning
techniques activity
centre and extension
ideas assessment
suggestions activity

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sheets and visuals
The module offers a detailed introduction to the Hands-On Science program (guiding principles, implementation guidelines, an overview of the skills that young students use and develop during scientific inquiry), a list of children's books and

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websites related
the science topics
introduced, and a
classroom
assessment plan with
record-keeping
templates.

Over the past twenty
years, astronomers
have identified
hundreds of
extrasolar
planets--planets

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orbiting stars other

than the sun. Recent
research in this

burgeoning field has

made it possible to

observe and measure

the atmospheres of

these exoplanets.

This is the first

textbook to describe

the basic physical

processes--including

radiative transfer,

molecular absorption,

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and chemical
processes--common
to all planetary

atmospheres, as well
as the transit, eclipse,
and thermal phase
variation observations

that are unique to
exoplanets. In each
chapter, Sara Seager
offers a conceptual
introduction,
examples that
combine the relevant

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with real data, and
exercises. Topics
range from
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knowledge, such as
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atmospheric
composition and
planetary spectra, to
more advanced
concepts, such as
solutions to the
radiative transfer

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equation, polarization,
and molecular and
condensate opacities.
Since planets vary
widely in their
atmospheric
properties, Seager
emphasizes the major
physical processes
that govern all
planetary
atmospheres. Moving
from first principles to
cutting-edge

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is an ideal resource for students and researchers in astronomy and earth sciences, one that will help prepare them for the next generation of planetary science. The first textbook to describe exoplanet atmospheres

Illustrates concepts

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using examples

grounded in real data

Provides a step-by-

step guide to

understanding the

structure and

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a planetary

atmosphere Includes

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Theo Koupelis has set

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the mark for a student-friendly, accessible introductory

astronomy text with In Quest of the

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those course that focus mainly on

planets and the solar system. Ideal for the

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Planet Student with material essential to the introductory course (gravity, light, telescopes, the sun) and then moves on to focus on key material related to our solar system. Incorporating the rich pedagogy and vibrant art program that have made his earlier books a success, Koupelis' In

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extremely visual, THE
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emphasizes the
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guides students to answer two fundamental questions: What are we? And how do we know? Updated with the newest developments and latest discoveries in the field of astronomy, authors Michael Seeds and Dana Backman discuss the interplay between

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evidence and hypothesis, while providing not only facts but also a conceptual framework for understanding the logic of science.

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Like planets in our solar system, exoplanets form, evolve, and interact with their host stars in many ways. As exoplanets acquire material and grow to the final size, their atmospheres are subjected to intense UV and X-radiation and high-energy

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particle bombardment from the young host star. Whether a planet can retain its atmosphere and the conditions for significant mass loss both depend upon the strength of the host star's high-energy radiation and wind, the distance of the exoplanet from its host star, the

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gravitational potential

of the exoplanet, and

the initial chemical

composition of the

exoplanet

atmosphere. This

introductory overview

describes the physical

processes

responsible for the

emission of radiation

and acceleration of

winds of host stars

that together control

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the environment of an exoplanet, focusing on topics that are critically important for understanding exoplanetary atmospheres but are usually not posed from the perspective of host stars.

Accordingly, both host stars and exoplanets are not studied in isolation but are

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treated as integrated systems. Stellar magnetic fields, which are the energy source for activity phenomena including high-energy radiation and winds, play a critical role in determining whether exoplanets are habitable. This text is primarily for researchers and

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graduate students
who are studying
exoplanet

atmospheres and
habitability, but who
may not have a
background in the
physics and
phenomenology of
host stars that provide
the environment in
which exoplanets
evolve. It provides a
comprehensive

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overview of this broad topic rather than going deeply into many technical aspects but includes a large list of references to guide those interested in pursuing these questions.

Nonspecialists with a scientific background should also find this text a valuable resource for

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Understanding the
critical issues of
contemporary
exoplanet research.

This teacher resource offers a detailed introduction to the Hands-On Science program, which includes its guiding principles, implementation guidelines, an

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science skills that
grade 6 students use
and develop, and a
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assessment plan
complete with record-
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has four instructional
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2: Flight Unit 3:
Electricity Unit 4: The

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unit is divided into
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techniques activity
centre and extension
ideas assessment
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sheets and visuals

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