

Welcome to the Space Telescope Science Institute's Public Lecture Series

- Your host: Dr. Frank Summers
- Lithographs on table
 - Please take one per person



TONIGHT

The Hubble Space Telescope:
An Idea that Would Not Die

Robert Zimmerman

October 7, 2008

8 PM

STScI Auditorium

Upcoming Talks

- November 11, 2008 – Massimo Stiavelli,
The First Stars in the Universe
 - NOTE: Second Tuesday! Vote Nov 4!
- December 2, 2008 – Max Mutchler,
Comets, Asteroids, and Minor Planets

Web Site & Webcast

- Google “hubble lecture”
- <http://hubblesite.org/go/talks>
- List of upcoming speakers
- Link to current webcast
- Links to previous webcasts

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Hubble Public Talks
Public Lectures at the Space Telescope Science Institute

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Upcoming Lectures

Date	Speaker
March 7, 2006	Speaker: Dr. Adam Riess, STScI Title: Dark Energy and the Fate of the Universe
April 4, 2006	Speaker: Dr. Massimo Robberto, STScI Title: Star Formation in the Orion Nebula
May 2, 2006	Speaker: Dr. Keith Noll, STScI Title: The Kuiper Belt

Upcoming Hubble Public Talk

Speaker: Dr. Frank Summers, STScI
"Astronomy Visualization: The State of the Art"

Broadcast will begin at 8:00 pm (EST), February 7, 2006
Replays of this broadcast will be available at 10:30 am (EST),
February 7, 2006

Speaker: Ian Jordan, STScI

December 6, 2005

"Distant Screens: From Extrasolar Planets to Eclipsing the
North Star"



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[Introduction](#)



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[Presentation Materials](#)

Hubble's Universe Unfiltered Video Podcast

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ABOUT THIS VIDEO PODCAST
Hubble's Universe Unfiltered is a collection of video podcasts. Each episode offers an in-depth explanation of the latest news story or image from the Hubble Space Telescope, presented by astronomer Frank Summers.
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THE ORIGINAL SHOW
Looking for the original video

HUBBLE'S UNIVERSE unfiltered

July 25, 2008

Show 1: Interacting Galaxies Galore!

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Download this episode:
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- HD QuickTime (207.12 MB)
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- Small QuickTime (30.36 MB)
- Large WMV (79.43 MB)
- Small WMV (42.21 MB)
- Large Xvid (107.07 MB)
- Small Xvid (58.33 MB)

Running Time: 10:29

shownotes:

Hubble celebrated its 18th anniversary by releasing a huge image gallery of interacting galaxies. Such galaxies pass close enough to each other that their mutual gravity can stretch and distort their shapes. Eventually, interacting galaxies merge together to form a single larger galaxy. However, since these interactions can take billions of years, how do we study them? And how do we make sense of the variety of strange shapes seen in these Hubble images?

Hubble press release:

- [Cosmic Collisions Galore!](#)

Notes

- Hubble was launched into orbit on April 24, 1990, aboard the space shuttle Discovery. However, there is a lot more to its history than just 18 years (so far) of cutting edge science. Take a look at [Hubble Essentials](#) for more of the story.
- Here are the numbers behind the size vs. distance comparison, using baseballs as stars. Let's take the stars first. The Sun is about 670,000 miles (1.4 million km) in diameter. The star Alpha Centauri is about 4.25 light-years away. A light-year is the distance light travels in one year at the speed of about 186,000 miles (300,000 km) per second, roughly 5.9 trillion miles (9.5 trillion km). That makes Alpha Centauri about 24 trillion miles (40 trillion km) distant. Hence the distance to Alpha Centauri is about 28 million times larger than the diameter of the Sun. I say "millions" in the podcast just to make it easy to remember.

Interacting galaxies morph into wondrous new shapes.

Observatory Open Tonight

- After the lecture, Justin Rogers will take a group to the observatory across the street. (weather permitting)



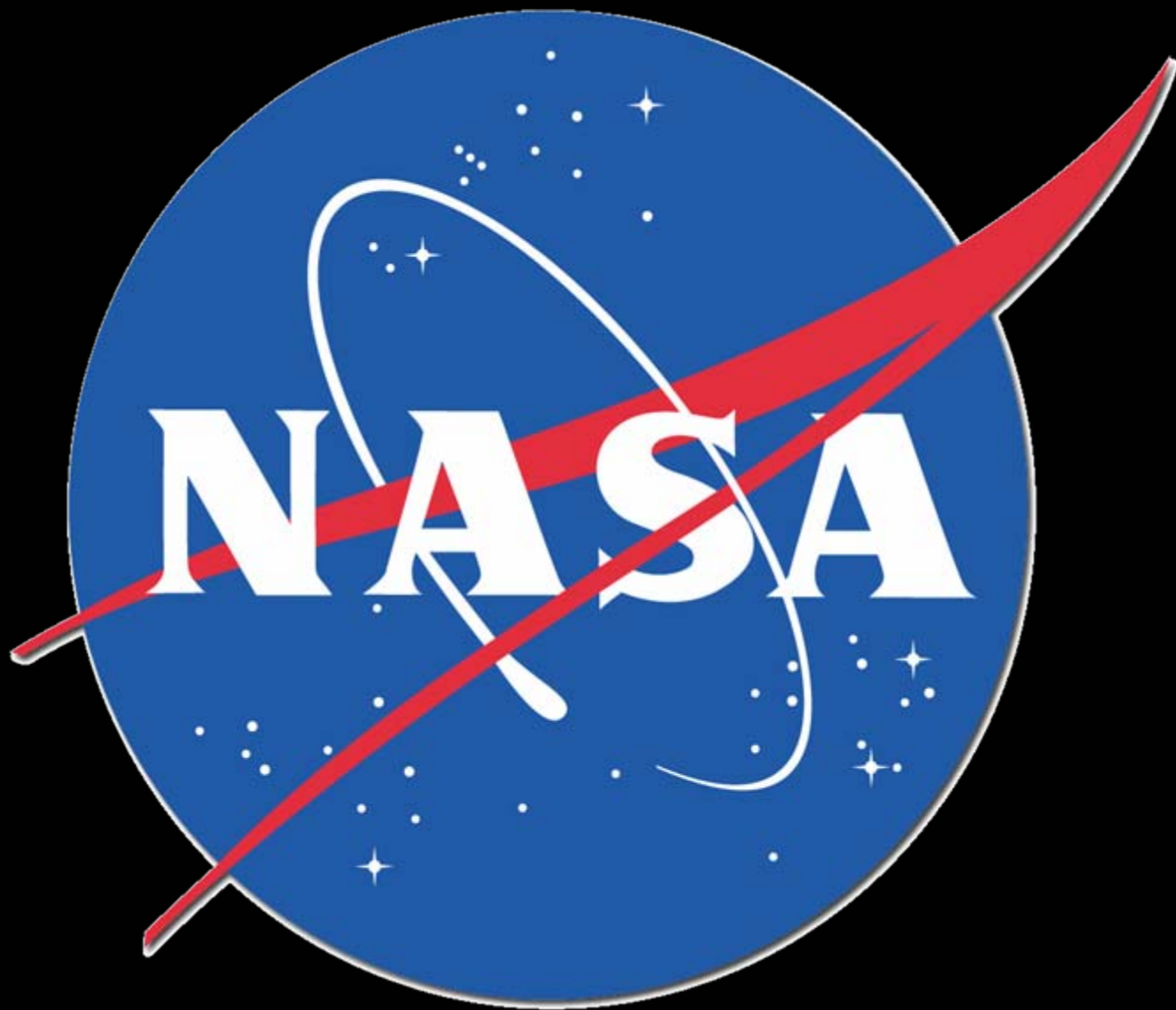
Maryland Space Grant Observatory

News from the Universe

October 2008

Eighteen Year Old Acts Up;
Family Postpones Visit;
Considering Alternate Sibling





Our Featured Speaker