this week at NASA Orbital Sciences

corporations Antares rocket was rolled

out to the mid-atlantic regional

spaceport spat 08 at Wallops Flight

Facility in preparation for test flight

targeted for later this month Antares is

designed to propel a Cygnus cargo

spacecraft laden with experiments and

supplies to the International Space

Station this test won't include the

Cygnus spacecraft or a rendezvous with a

space station that full of demonstration

flight is planned for later this year

one of the International Space Station's
The most prominent scientific experiments has produced its first results. The Alpha Magnetic Spectrometer is a state-of-the-art cosmic ray particle physics detector located on the exterior of the orbiting laboratory. Thai AMS principal investigator spoke from a science conference in Switzerland where the results were announced. You're recording today that you think you've seen the first evidence of dark matter or evidence support the existence of dark matter but cannot rule out their origin come from puzzles but because we
will be on the space station for the

lifetime of the space station we should

be able to solve this problem space

station is a really nice platform well

suited for this instrument it allows for

a long long duration of observation time

which is important to this instrument

this is a good a good indication of some

of the results that are going to come

from space station in the future

scientists hope that by measuring cosmic

cybers will provide new data about the

formation of the universe antimatter and

evidence of the mysterious Dark Matter


believed to make up most of the universe

the materials on International Space

Station experiment or missy is a

multi-generational study conducted on

station a suitcase like structure filled

with various coin shaped samples of

materials is mounted like the AMS

outside the station exposing the

materials to space and the sun's

unfiltered ultraviolet radiation

examination of the returned samples has

helped qualify a variety of materials

for spaceflight including the white

protective thermal control coding used

on the SpaceX Dragon spacecraft and the
coding used to protect the cooling fins

on the curiosity Mars rovers power unit

and at the Langley Research Center

scientists and engineers are preparing

the stratospheric aerosol and gas

experiment or sage three Earth observing

science instrument for its trip to the

International Space Station due for

delivery to the ISS by SpaceX late next year or early 2015 sage tree will help

scientists better understand the Earth's atmosphere by gathering long-term measurements of ozone aerosols and other gases the International Space Station
the world's only laboratory in microgravity is home to more than 150 scientific experiments and studies.

NASA's Hubble Space Telescope has found the farthest supernova of the Ia type used by scientists to measure cosmic distances supernova you ds-10 will nicknamed SN Wilson after American President Woodrow Wilson exploded more than 10 billion years ago SN Wilson and it's consistent level of brightness will serve as a reference point by which astronomers can measure the expansion of the universe and better understand the
dark energy accelerating that expansion

this animated series of still images captured by nasa's mars reconnaissance

orbiter shows the parachute that helped safely land the curiosity mars rover

last august changing shape in response to the wind on the Martian surface still

attached to the Mars Science Laboratory

spacecraft backshell the parachute is about 165 feet long the images were captured by mros high-resolution imaging

science experiment or hi-rise camera the earth month section of nasa.gov is full of the latest news events and
interactive material including a Google+

101 00:04:25,360 --> 00:04:30,400
Hangout on sea level rise classic images

102 00:04:28,420 --> 00:04:32,530
of Earth and feature stories about

103 00:04:30,399 --> 00:04:36,899
NASA's ongoing mission to help

104 00:04:32,529 --> 00:04:39,129
understand and sustain our home planet

105 00:04:36,899 --> 00:04:41,319
nasa's lunar atmosphere and dust

106 00:04:39,129 --> 00:04:44,439
environment Explorer or ladee spacecraft

107 00:04:41,319 --> 00:04:46,329
is undergoing final checks and testing

108 00:04:44,439 --> 00:04:48,910
in preparation for its scheduled launch

109 00:04:46,329 --> 00:04:51,039
late this year built at the Ames

110 00:04:48,910 --> 00:04:52,870
Research Center the spacecraft will be

111 00:04:51,040 --> 00:04:55,180
the first to collect extensive amounts

112 00:04:55,180 --> 00:04:58,030
of data about the moon's extremely thin

113 00:04:58,029 --> 00:05:02,109
a lot of work that went into this for
the team it's really nice to see the spacecraft operate as you expect it to in the environmental testing so I can tell the team is all excited about getting it to the range and getting a chance to launch it the data collected by laddie will help prepare future robotic and human missions to the lunar surface members of the media were invited inside the Johnson Space Center's chamber a the world's largest thermal vacuum chamber to check out upgrades being made to prepare to 400 thousand cubic foot facility for testing
of the agency's James Webb Space Telescope scheduled for launch in 2018 jwst the successor to the Hubble Space Telescope is designed to enable scientists to see farther back into history than ever before 40 years ago on April fifth 1973 the pioneer 11 spacecraft launched from Cape Canaveral to study the asteroid belt the environment around Jupiter and Saturn and eventually the far reaches of the solar system and heliosphere it was the first probe to encounter and take close-up pictures of Saturn and the
second to fly through the asteroid belt

and past Jupiter during its flyby at the
gas giant on December second 1974

pioneer 11 obtained dramatic images of
the Great Red Spot and made the first
observations of the planets immense
polar regions its twenty two and a half
year mission officially ended when
communication with pioneer 11 was lost
in the fall of 1995 and that's this week
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