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, 1997.

MIAMI AP) — Sky watchers oughou North America will a triple reat Thursday night: a al eclipe of a harvest moon,

habrigit Saturn in tow. Most d North America won't anoter total eclipse of the on und the year 2000, and asomes say these kinds of very public displays help reconnect a generation of children who have the cosmic wellspring of creativity lost contact with the sky.

"With the amount of electric lighting we're using, we're washing out the sky," said Bob Stencil, head of the physics department at the University of Denver. "When we illuminate the sky, we're depriving and imagination.

A total lunar eclipse occurs whenever the Earth moves directly between the sun and the full moon, casting its shadow across the moon. Even when the moon is completely in the Earth's shad-

What to look for:

the penumbra, developing

the darker portion of the

a faint shading.

8:45 p.m.: The moon enters

9:12 p.m.: The moon enters

Earth's shadow, the umbra.

For an hour, it slips deeper

into the shadow, glowing orange, red or brown. This is

considered a partial eclipse.

10:19 p.m.: Total eclipse

colors and shadings.

the moon.

Sun

Also, watch for Saturn

begins. Look for changing

just below or to the right of

Earth Moon

Moon's

Earth's

shadow

orbit

ow, it doesn't get entirely dark; it is often a faint reddish, illuminated by sunlight filtering around the Earth's edge.

This time, Earth's curved shadow will fall across the moon starting at 9:12 p.m. EDT, with the darkest part of the eclipse coming at 10:54 p.m.

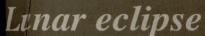
This lunar eclipse comes at the same time as the harvest moon, which is the full moon closest to the first day of autumn. A harvest moon is not necessarily different from other full moons, but crisp, dry fall weather can make it seem brighter and more distinct.

Making things even more interesting this time, Saturn is positioned in the sky very close to the eclipsed moon. As the moonlight dims, stars will come out and Saturn will seem to shine more brightly.

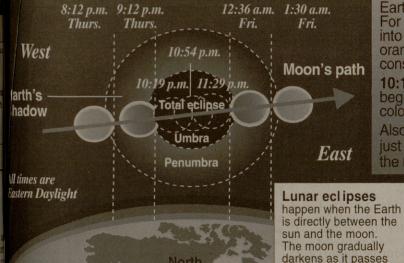
"This is a wonderful dance between the Earth and the moon, sort of a cosmic ballet," said Jack Horkheimer, director of the Miami Planetarium and host of the PBS show "Star Hustler."

Dust from volcanic eruptions or smoke from forest fires can affect the color of the eclipsed moon, which can vary from a dull gray to a coppery or muddy red color. A lunar eclipse can give scientists a reading of how much dust is in the atmosphere.

"Anybody can see the eclipse with their own eyes," said Paul Knappenburger, president of the Adler Planetarium and Astronomy Museum in Chicago. "Just find a comfortable place and watch the moon perform.'



Almst anyone in North America will be able to see the mood turn a dim shade of orange-red or red-brown during Thusday's lunar eclipse. The next total lunar eclipse won't occr until January 2000.



irce: Sky & Telescope magazine

ional Conso rts was establish ent athletes to owered Earth with two record-setting urn professional rn to school to ea ists of very high-energy gamma rays and partial financial a

mped a puzzle into scientists' laps. Isvery difficult to explain how this hapsaid physicist Jim Gaidos of Purdue hours of either co Very high energy gamma rays have been orted to come from two distant galaxies, two more are under study. The rays are

o take courses at the city where they sorbed by the upper atmosphere and tpose any risk to health. ientists think a spinning black hole in e galaxies somehow sends out jets of mic affairs, said yo

tter and radiation. These jets bump into energy packets

NEW YORK (AP) — A distant galaxy has called photons, changing them to the gamma rays, scientists theorize.

into the Earth's shadow.

It will take some doing to explain two gamma ray bursts detected last spring, Gaidos and other researchers said in Thursday's issue of the journal Nature.

The bursts came from a galaxy called Markarian 421, which lies about 400 million light-years away.

The first burst, on May 7, send 15 to 16 gamma rays per minute crashing into the Earth's atmosphere, nearly three times the old record.

The second flare, eight days later, set a record for being so brief: half an hour. Previ-

ously observed flares have lasted for days. This brevity suggests that the gamma rays

Galaxy's high-energy gamma rays pose questions must have been generated within a very

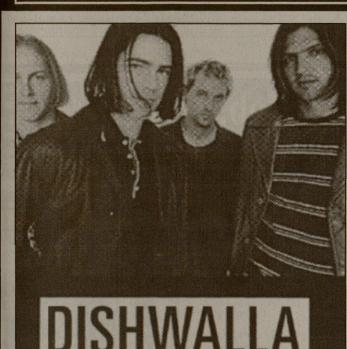
small space. Scientists will now have to rethink their theories to come up with a way that a galaxy could produce the high intensity seen in the first burst, through some process that can turn on and off in only half an hour and act within a very small space, Gaidos said.

'It's going to be tough," he said. But Gaidos said he's not ready to declare

current theories dead.

Jules Halpern, an associate professor of astronomy at Columbia University in New York, said there's probably a "clever explanation" for the new observations that won't

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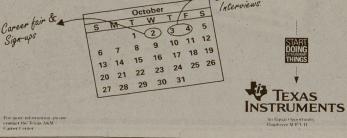
Bachelor's, Master's or PhD degrees in:
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 Physics (Engineering and Solid State)
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The Career Fair and sign-ups for

interviews will be held: 9:00 a.m. to 5:00 p.m., October 2, Room 110-111, John J. Koldus Building. Interviews (by appointment): October 3 & 4.



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SCIENCE AND ENGINEERING

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	CHEM 101	7-9PM	CH 4	CH 5	CH 6	CH 7 Ors Sortage & Yeng
	PHYS 201	9-11 PM	CH 6	CH 7	CH 8	PRAC TESTS
	ENGR 109	11 PM - 1 AM	PART A PRAC TEST 1	PART B PRAC TEST 2		

		MON Sep 30	Oct 1	Oct 2	Oct 3
MATH 152	6-8 PM	PART 1	PART 2	PART 3 PRAC TEST	
MATH 151	8-11 PM	PART 1	PART 2	PART 3 PRAC TEST	

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