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Cannibalistic galaxy bends light, revealing a monstrous appetite

The most massive gal- ESO 146-IG 005. axy known in the local uni-Observatory.

Study also reaffirms that galaxy very accurately. "galactic cannibalism" is mass of our Sun.

The supermassive galaxy which lies some 1.4 billion in our local universe." light-years away.

The image shows how cannibalism" known. the galaxy bends light, cremeasure its extreme mass.

scope in Chile, a twin to the cannibal galaxy. Gemini North scope atop Mauna Kea.

revealed, for the first time, galaxies already within its the effects of gravitation- gravitational grasp," said al lensing near the core of West.

"The gravitational lens verse was revealed recently we discovered allowed us in images taken by Gemini to estimate for the first time the mass of this monster

The inferred mass is a one reason that this galaxy factor of 10 greater than is so huge, tipping the scales previous estimates derived at up to 30 trillion times the from X-ray observations," said Carrasco.

"Assuming our model is is located at the core of the correct, this is by far the galaxy cluster Abell 3827, most massive galaxy known

The exceptional galaxy This galaxy and hundreds was not simply born masof its smaller cluster com- sive; it has grown by conpanions are visible in a dra-suming its companions in matic new image released perhaps the most extreme by the Gemini Observatory. example of ongoing "galaxy

"This unabashed cannibal ating a "gravitational lens" is something of a messy eatthat allows astronomers to er, with the partially digested remains of at least four Although this bright gal- smaller galaxies still visible axy (known as ESO 146-IG near its center," said team 005) dominates the core of member Michael West, the Abell 3827, "the magnitude astronomer at the European of its appetite has not been Southern Observatory who fully appreciated," said first observed this system Gemini astronomer Rodrigo more than a decade ago and Carrasco, who is a member says that he was immediof the team that used the ately struck by the complex 8-meter Gemini South tele-morphology of this giant

"Eventually this galaxy will grow even bigger judg-The Gemini observations ing by the number of nearby



Gemini Observatory

The most massive galaxy known in the local universe was revealed recently in images taken by Gemini Observatory.

'Imiloa Astronomy Center to host free stellar session Sunday

ter invites the public to the where she enjoys teaching next free Galaxy Forum students how to build their 2010 - "21st Century Edu- own scale models of the cation: Get to Know Our Milky Way. She will dis-Place in the Universe" — cuss how to integrate galfrom 10:30 a.m. to 12:30 axy awareness in preschool. p.m. Sunday. It's billed as elementary, secondary and an exploratory forum to college classroom curricula. promote galaxy education The session will include a and stellar academics.

for the Subaru Telescope, education in Hawaii. will focus on "Teaching Gal-Classrooms."

accomplished galaxy edu- den. Visit www.iloa.org and cator with much experience www.galaxygarden.net.

'Imiloa Astronomy Cen- in Hawaii's classrooms, panel discussion with local Speaker Kumiko Usuda, educators on advancing and outreach education scientist enhancing general science

Hosts for the galaxy axy Education in Hawaii's series are the International Lunar Observatory Asso-Usuda is a dynamic and ciation and Galaxy Gar-



