

Script for ESOcast Light 166: New test of Einstein's general relativity

ESOcast Light 166	
[Visual starts]	
New ESOcast intro	New ESOcast introduction
Title: New test of Einstein's general relativity	
1. Astronomers have made the most precise test ever of general relativity outside the Milky Way.	
2. They first used ESO's VLT to measure the gravitational effect of a galaxy by watching how quickly stars zoomed around its centre.	
3. The Hubble Space Telescope was then used to measure another effect of this galaxy's mass...	
4. ...by observing an Einstein ring caused by light from a background galaxy being bent and distorted.	Image of Einstein ring from paper
5. The two measurements were compared and showed that general relativity correctly describes how gravity works on the scale of galaxies...	
6. ...proving Einstein right and some alternative theories of gravity wrong!	
[Outro]	<i>Produced by ESO, the European Southern Observatory. Reaching new heights in Astronomy.</i>