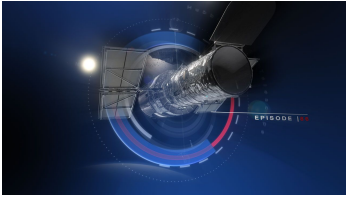

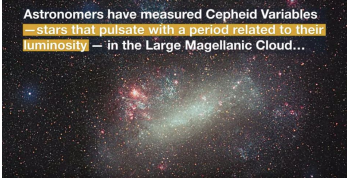






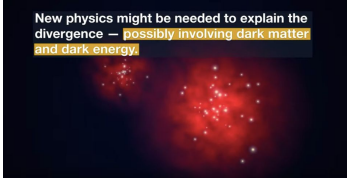


ESO, Karl-Schwarzschild-Str.2
D-85748 Garching bei München,
Germany
Telephone: +49 (0)89 3200 6855
Telefax: +49 (0)89 3200 6480
hubble@eso.org

www.spacetelescope.org

Keywords:

Hubblecast Episode 120: The Continued Discrepancy in the Universe's Expansion Rate	Visual notes
00:00 2. Intro	
00:13 3. The Universe might be expanding even faster than we previously thought.	
00:23 4. Astronomers have measured Cepheid Variables — stars that pulsate with a period related to their luminosity — in the Large Magellanic Cloud...	

<p>0:33</p> <p>5. ...to improve cosmic distance calibrations and to calculate how fast the Universe is flying apart.</p>	
<p>0:42</p> <p>6. But their results don't quite match measurements from the Cosmic Microwave Background – the afterglow of the Big Bang...</p> <p>0:52</p> <p>they show that the Universe is expanding a bit faster.</p>	 
<p>1:01</p> <p>7. Repeated measurements suggest this discrepancy is not a fluke — making it an exciting development in cosmology.</p>	
<p>1:11</p> <p>8. New physics might be needed to explain the divergence — possibly involving dark matter and dark energy.</p>	

Ends 1:30