ESOcast 121 Light: Star orbiting supermassive black hole proves Einstein right

ESOcast Light 121	
[Visual starts] **New ESOcast intro**	New ESOcast introduction Incl ESO logo
Title: Star orbiting supermassive black hole suggests Einstein is right	
1. Looks like Einstein was probably right again! **Effects** predicted by his general theory of relativity **are slightly changing the orbit of stars** very close to our Milky Way's centre.	
2. The culprit? The super-strong gravitational field of the **supermassive black hole** at the centre of our galaxy.	
3. New analysis of data from ESO's VLT **suggests for the first time** the very subtle effects of general relativity affecting a star orbiting a black hole.	
4. The Galactic Centre is **one of the best labs to test general relativity**.	
5. And things are about to get even more exciting! In 2018 one of the **stars will make a very close approach to the black hole**. The VLT will be ready to observe the event with the **GRAVITY instrument**.	
00:00 **[Outro]**	*Produced by ESO, the European Southern Observatory.* *Reaching new heights in Astronomy.*