

Script for ESOcast Light 219: Star Dance Around Supermassive Black Hole

ESOcast Light 219	
[Visual starts] New ESOcast intro	 New ESOcast introduction
Title: Star Dance Around Supermassive Black Hole	
1. ESO's Very Large Telescope has observed a star dancing around the supermassive black hole at the centre of the Milky Way.	
2. The observations have revealed, for the first time , that the star's orbit is shaped like a rosette and not like an ellipse.	
3. This precessing movement is predicted by Einstein's theory of general relativitybut had never before been observed for a star around a supermassive black hole.	
4. The star, S2, is one of the closest ever found around the massive giant , but it still takes 16 years to complete its orbit.	
5. To unravel the intricacies of its orbit , astronomers had to follow S2 for nearly 30 years , taking ever more precise measurements.	
00:00 [Outro]	<i>Produced by ESO, the European Southern Observatory. Reaching new heights in Astronomy.</i>