## Script for ESOcast Light 235: Astronomers Image Magnetic Fields at Black Hole's Edge

ESOcast Light 235	
[Visual starts]	
New ESOcast intro	New ESOcast introduction
Title: Astronomers Image Magnetic Fields at Black Hole's Edge	
1. In 2019 the Event Horizon Telescope (EHT) released the <b>first ever image</b> of a black hole, the giant at the heart of the Messier 87 galaxy.	
2.Now, the EHT collaboration has revealed a <b>new view</b> of this massive object: how it looks in <b>polarised light</b> .	
3. Telescopes around the world — including ALMA and APEX, in which ESO is a partner — were <b>linked</b> to create a <b>virtual Earth-sized telescope</b>	
4which, <b>for the first time</b> , has allowed astronomers to measure polarisation, a signature of magnetic fields, at the edge of a black hole.	
5. In the same way polarised sunglasses help us see better by reducing glare from bright surfaces	
measuring polarisation helps astronomers <b>sharpen their vision</b> of the region around the black hole.	
5. The new view is <b>key to understanding</b> how magnetic fields allow the black hole to <b>'eat' matter</b> and <b>launch powerful jets</b> .	
[Outro]	Produced by ESO, the European Southern Observatory.

	Reaching new heights in Astronomy.
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