Script for ESOcast Light 251: Uncovering a Black Hole in an Immense Dust Cloud

ESOcast Light 251	
[Visual starts] **New ESOcast intro**	New ESOcast introduction
Title: Uncovering a Black Hole in an Immense Dust Cloud	
1. At the heart of the **Messier 77 galaxy** ESO's Very Large Telescope Interferometer has revealed a **thick ring of dust** hiding a **black hole**.	
2. The discovery has enabled **new insights** into **active galactic nuclei** (AGNs)... …confirming a 30-year-old theory – the **Unified Model of AGNs**.	
3. AGNs are powered by black holes and emit **massive amounts** of radiation, but they have different properties.	
4. The Unified Model says all AGNs have the **same basic structure**: a black hole surrounded by a dusty ring. We see different types of AGN depending on **their orientation towards Earth.**	
5. The team found that the ring of dust **obscures the black hole** in Messier 77 entirely, which explains why the galaxy's nucleus appears **more subdued than others**.	

6. "Our results should lead to a better understanding of the inner workings of AGNs." Violeta Gámez Rosas, Leiden University, the Netherlands	
[Outro]	*Produced by ESO, the European Southern Observatory.* *Reaching new heights in Astronomy.*
	Also interesting: https://www.youtube.com/watch?v=kjbM9FVIXOY and https://www.youtube.com/watch?v=WnpTO-LSufs