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In a galaxy far, far away, the hole story

By **BRIDIE SMITH**

SCIENCE AND TECHNOLOGY REPORTER ASTRONOMERS have found one of the biggest black holes yet - a super dense object residing in an "oddball galaxy' 240 million light years away.

in mass to 17 billion suns, making it the second-largest black hole documented. The largest, found last year in a galaxy called hole, we would expect this NGC 4889, was equivalent in mass to 21 billion suns.

But it's not just the mass of the black hole that has astronomers excited. Unusually, this ultramassive black hole has a of the mass of its galaxy's central hole older still.

stars. On average it is usually 0.1 per cent.

We don't know how it formed to become this big relative to its host galaxy, but it is certainly unique," said Alister Graham, professor of astro-The black hole is equivalent nomy from the Centre for Astrophysics and Supercomputing at Swinburne University.

galaxy to be 100 times brighter and much larger than it is," he

as NGC 1277 - were about 8 bil- black hole." mass equivalent to 59 per cent lion years old, and the black

The discovery of the black hole was made by researchers from America and Germany using the largest optical telescope in the world, the Hobby-Eberly Telescope, at the University of Texas at Austin's McDonald Observatory.

Astronomers were able to measure the motion of the stars "Given the size of its black at the centre of the galaxy, which reveals the mass within the orbit of the stars.

This is a really oddball galaxy," said team member Karl Professor Graham said that Gebhardt, of the University of the stars in the galaxy – known Texas at Austin. "It's almost all