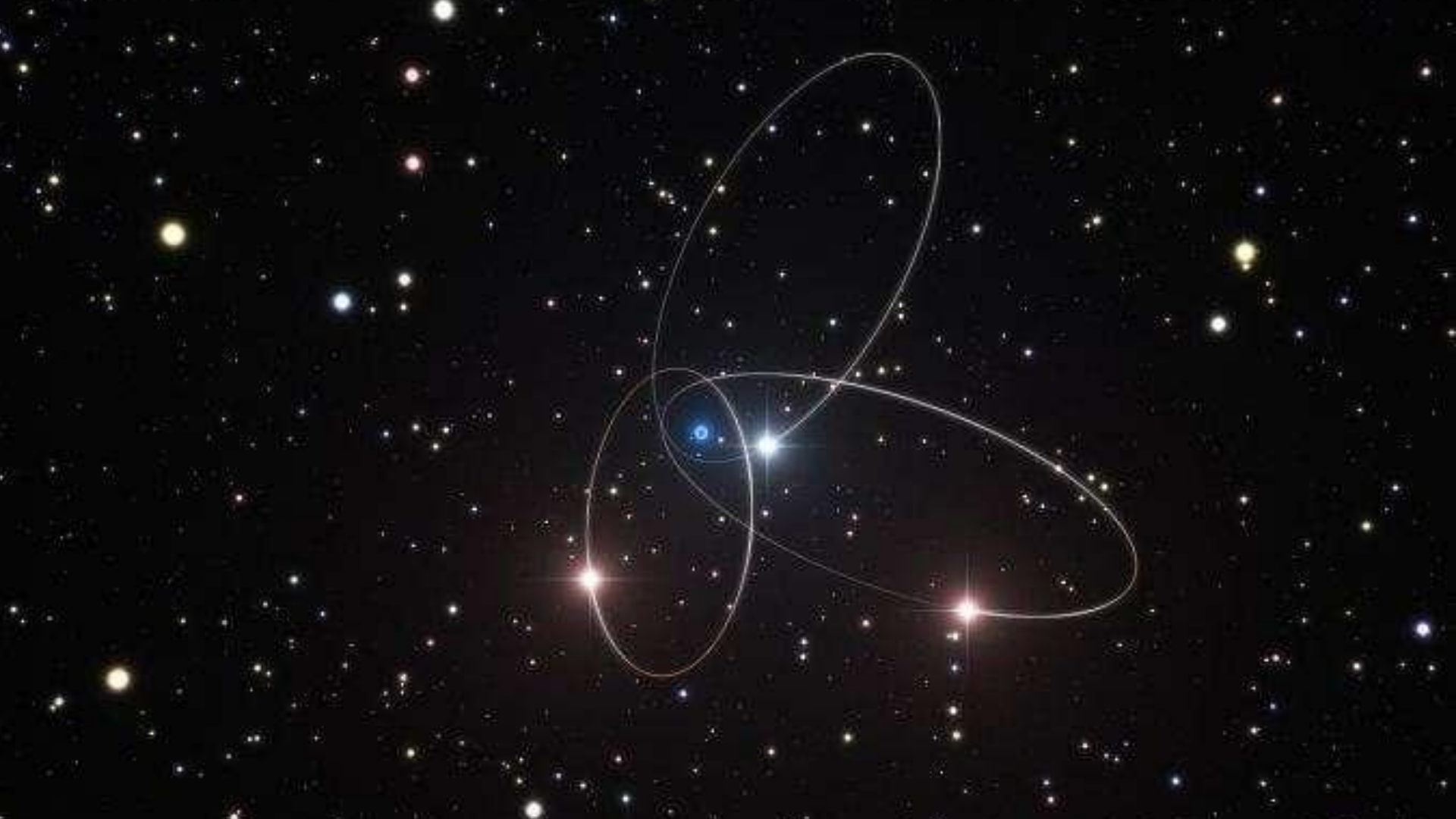


First image of Sagittarius A* by the Event Horizon Telescope

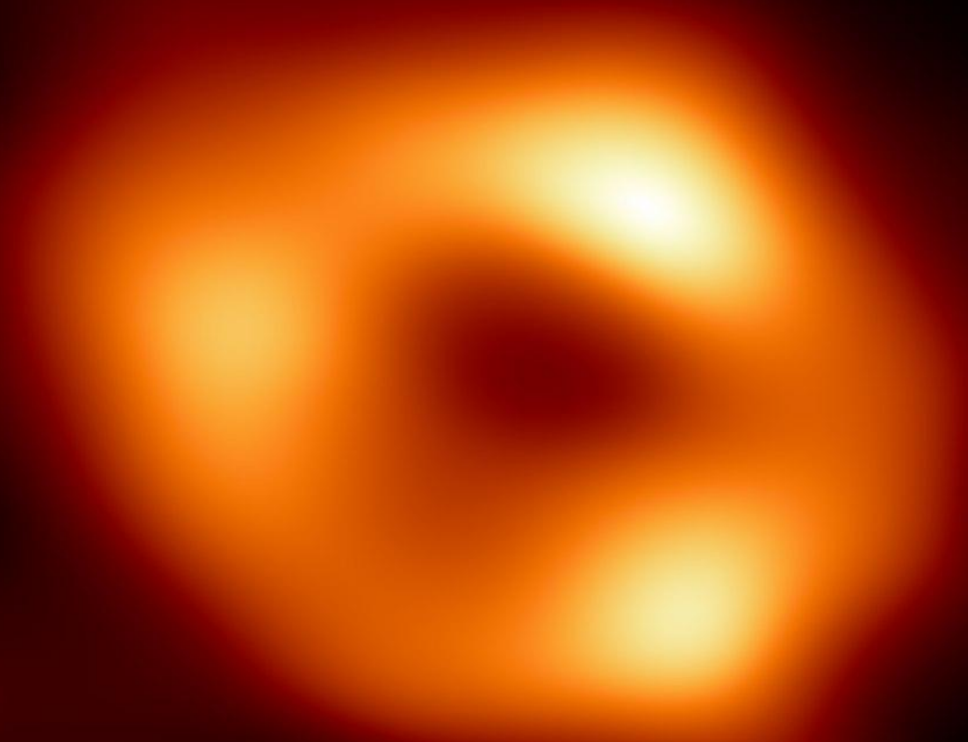
Group C:

Patrick Bauer, Filippo Belloni, Roy Brener, Elizaveta Cherepanova, Vlad-George Dedu, Adelina Lintuluoto, Andrej Lozar, Dvij Mankad, Santosh Parajuli, Markus Reif, Adrian Rubio Jimenez, Raffaella Tramontano, Robert White, Ilya Zhizhin

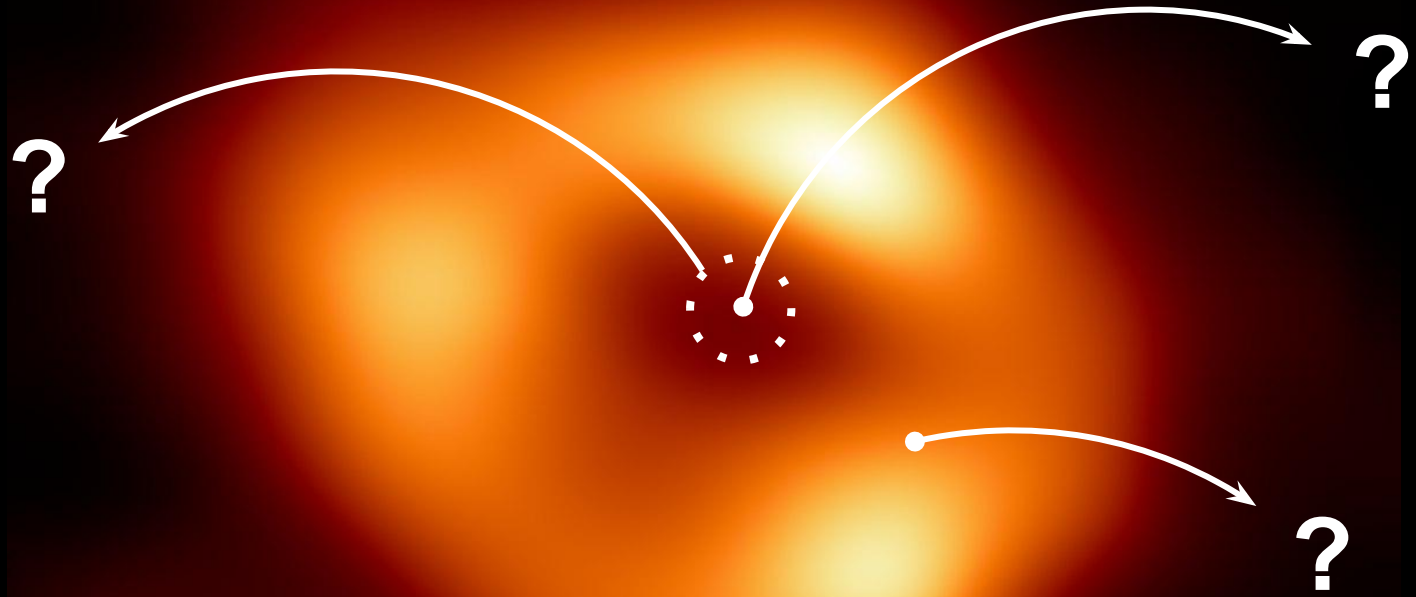




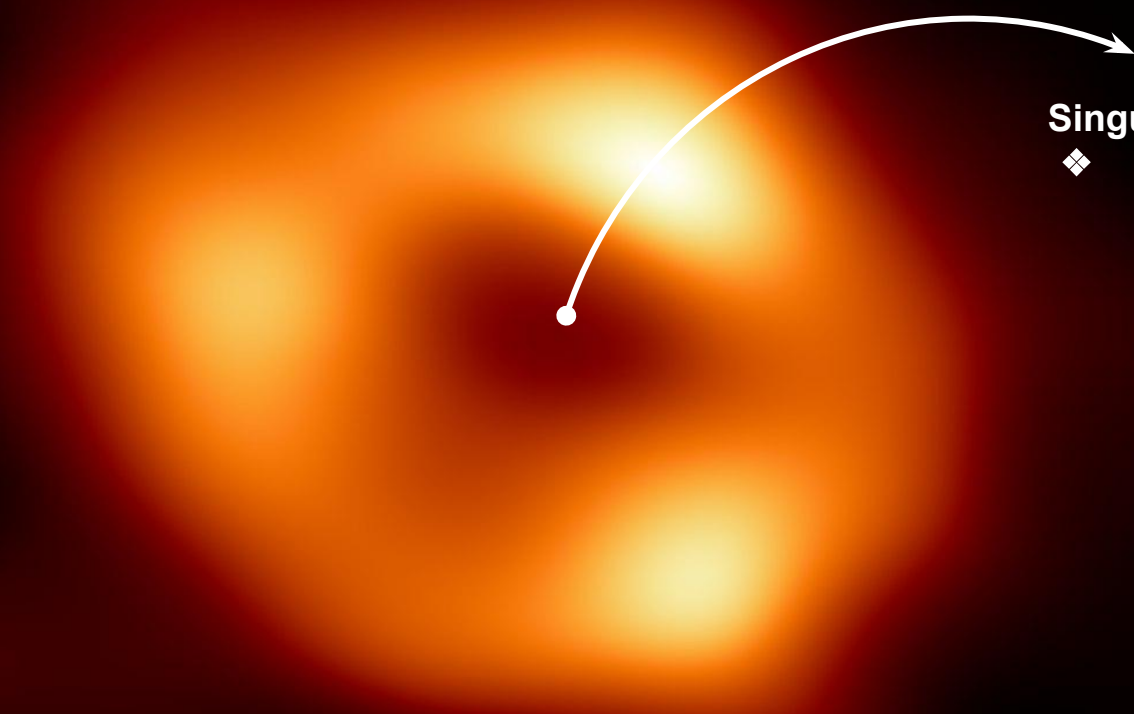
Sagittarius A*



Sagittarius A*

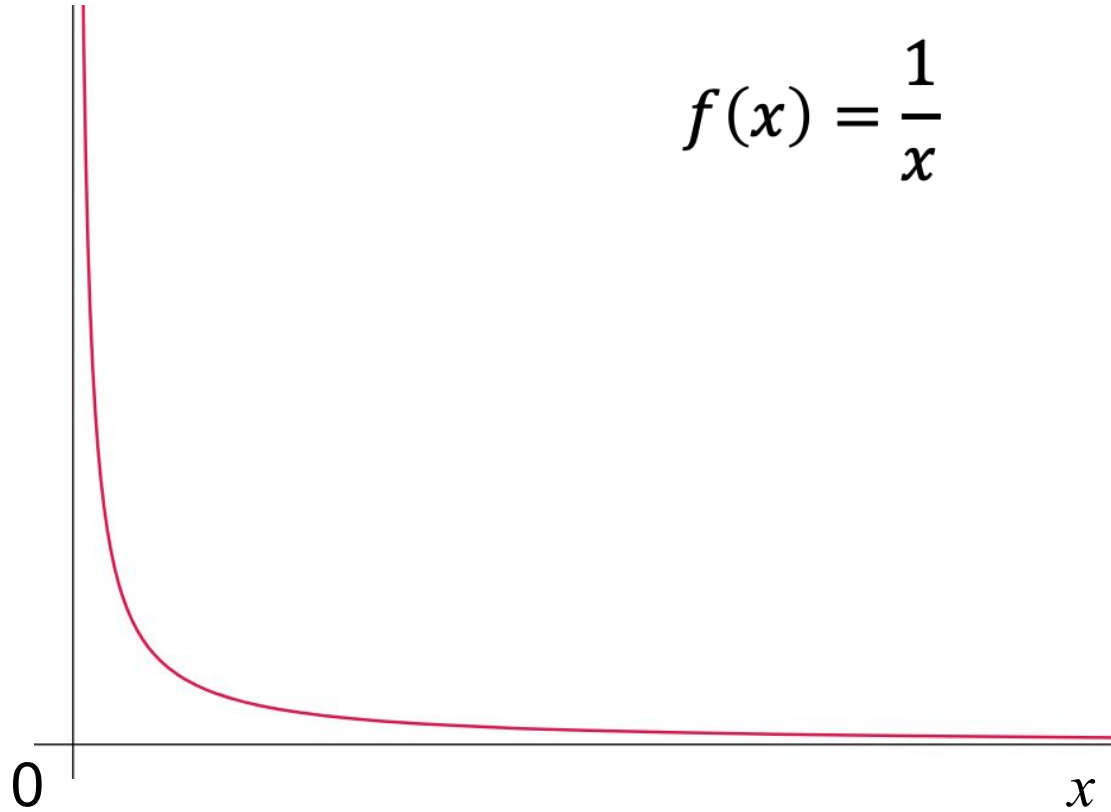


Sagittarius A*

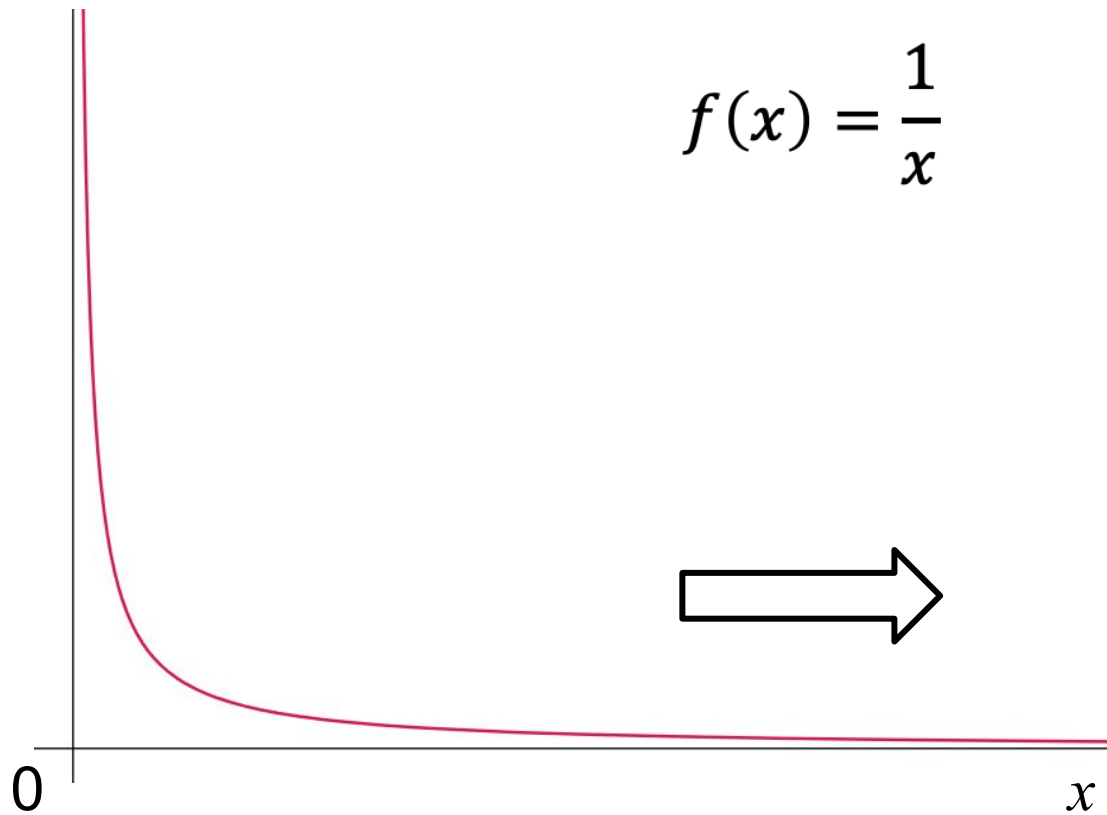


Singularity:
◆ 4 million Sun
masses in a
single point!!!

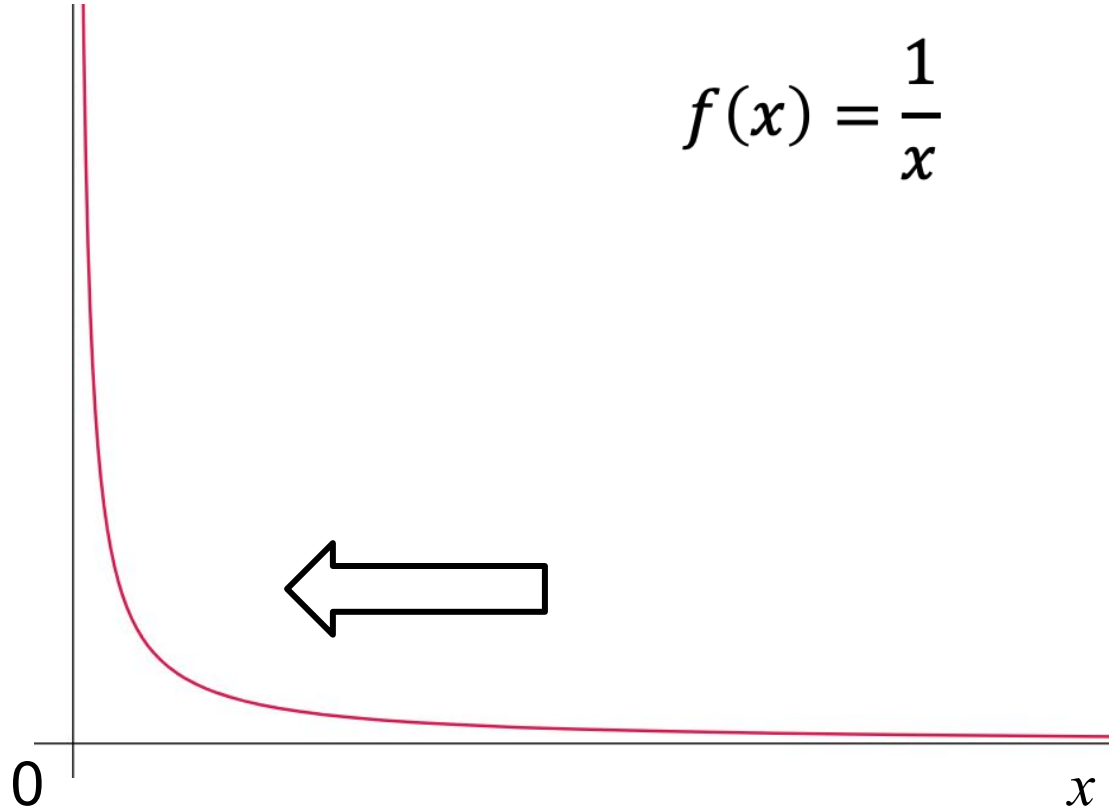
$$f(x) = \frac{1}{x}$$



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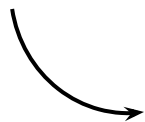


$$f(x) = \frac{1}{x}$$

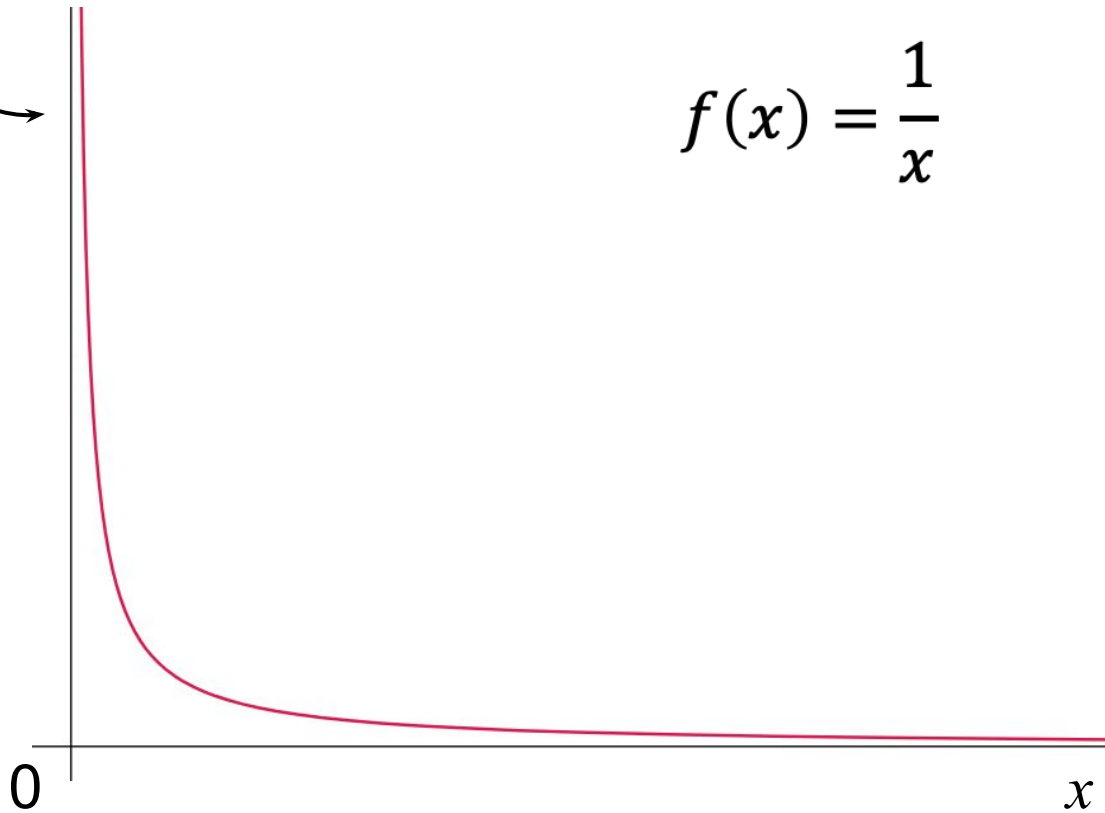


Singularity

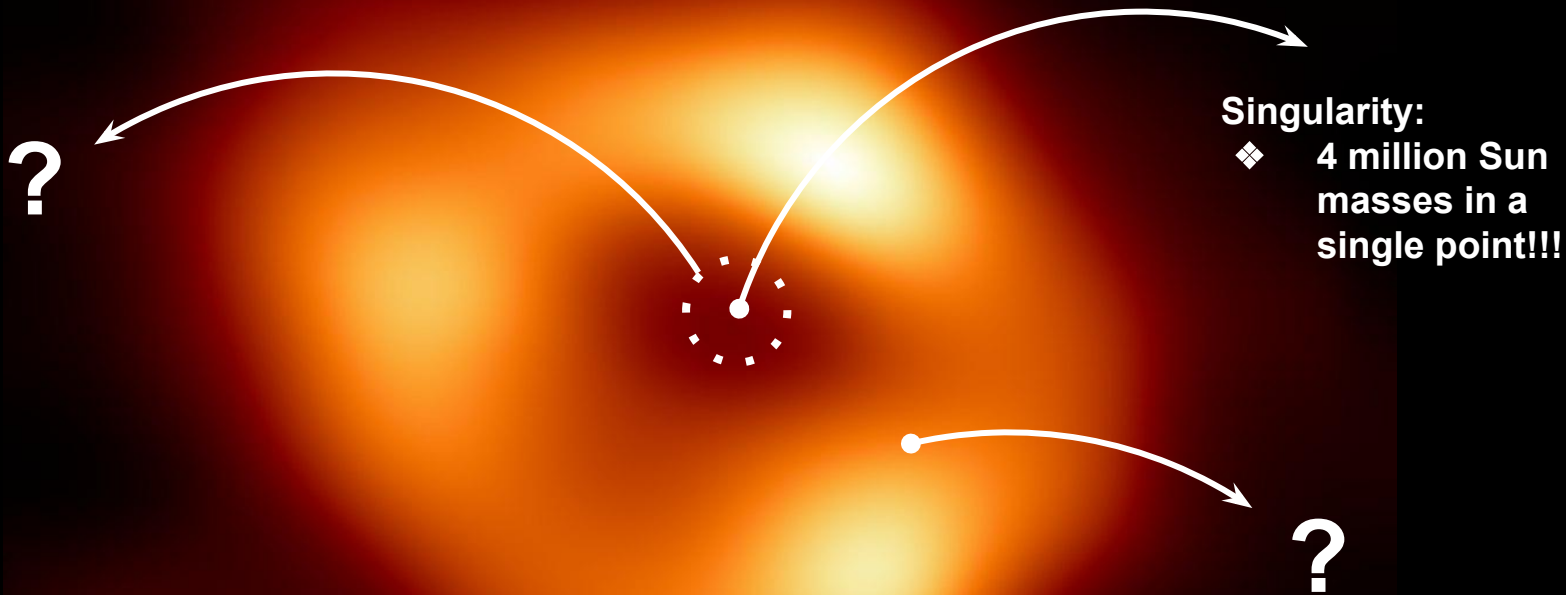
$$\frac{1}{0}$$



$$f(x) = \frac{1}{x}$$



Sagittarius A*

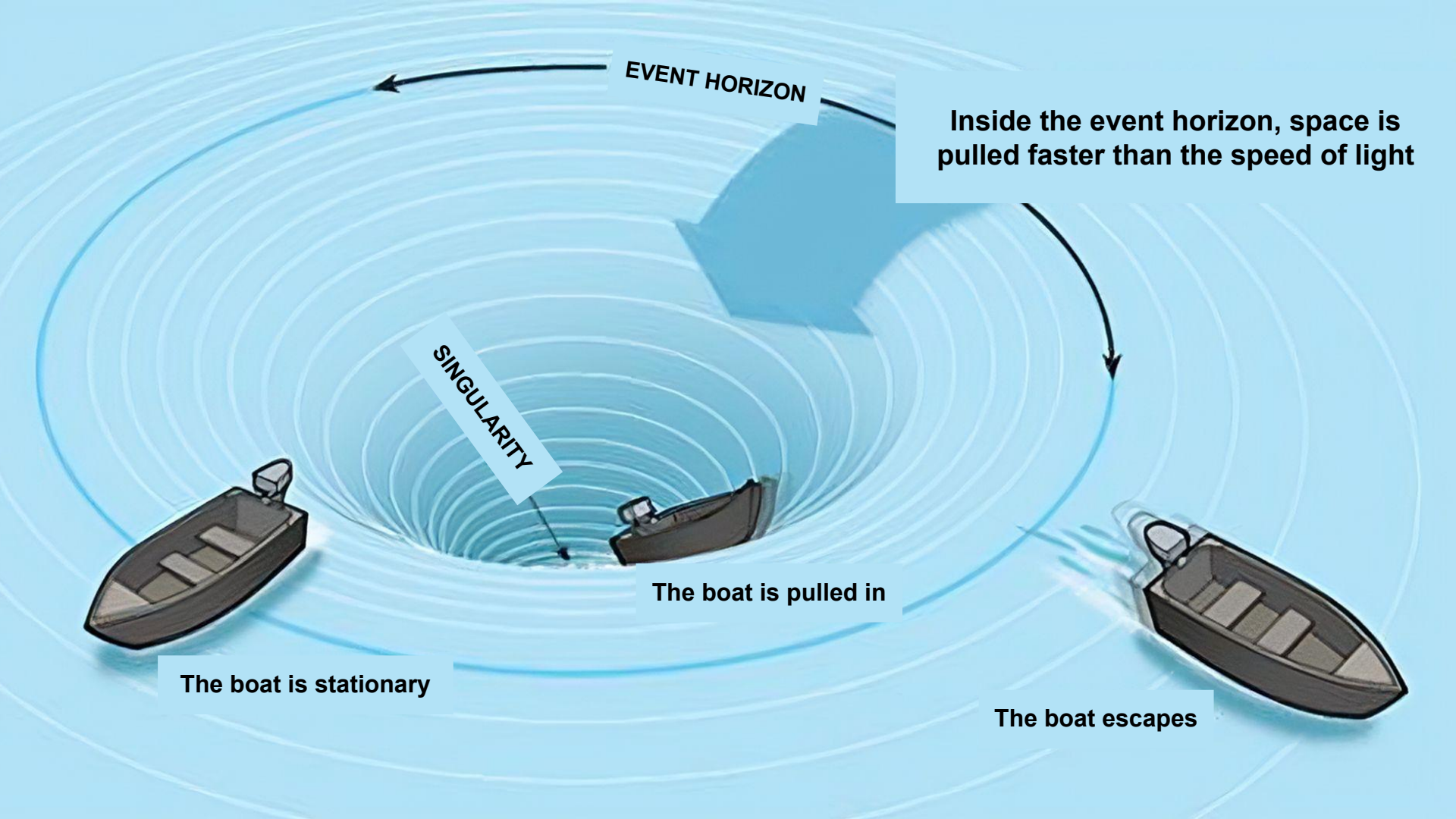


Sagittarius A*

Event horizon:

- ◆ Nothing can escape from inside it





EVENT HORIZON

Inside the event horizon, space is pulled faster than the speed of light

SINGULARITY

The boat is pulled in

The boat is stationary

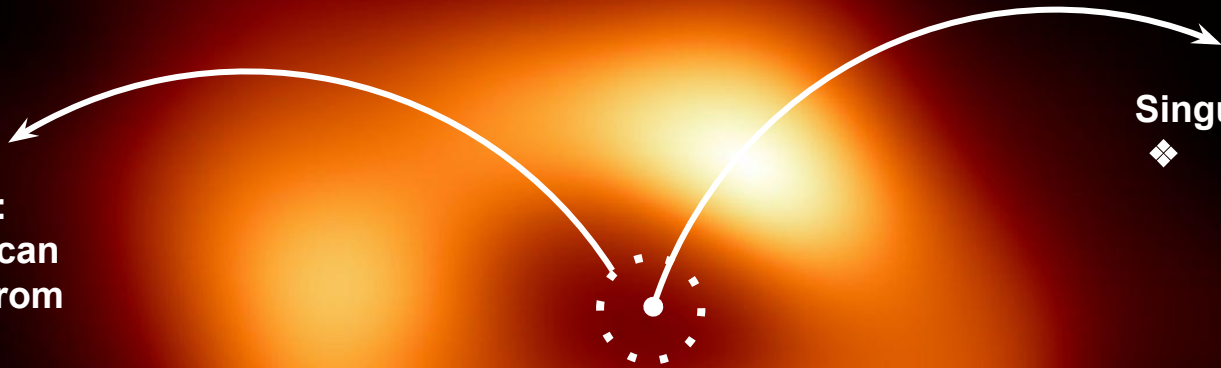
The boat escapes

Sagittarius A*

Event horizon:
◆ Nothing can escape from inside it

Singularity:
◆ 4 million Sun masses in a single point!!!

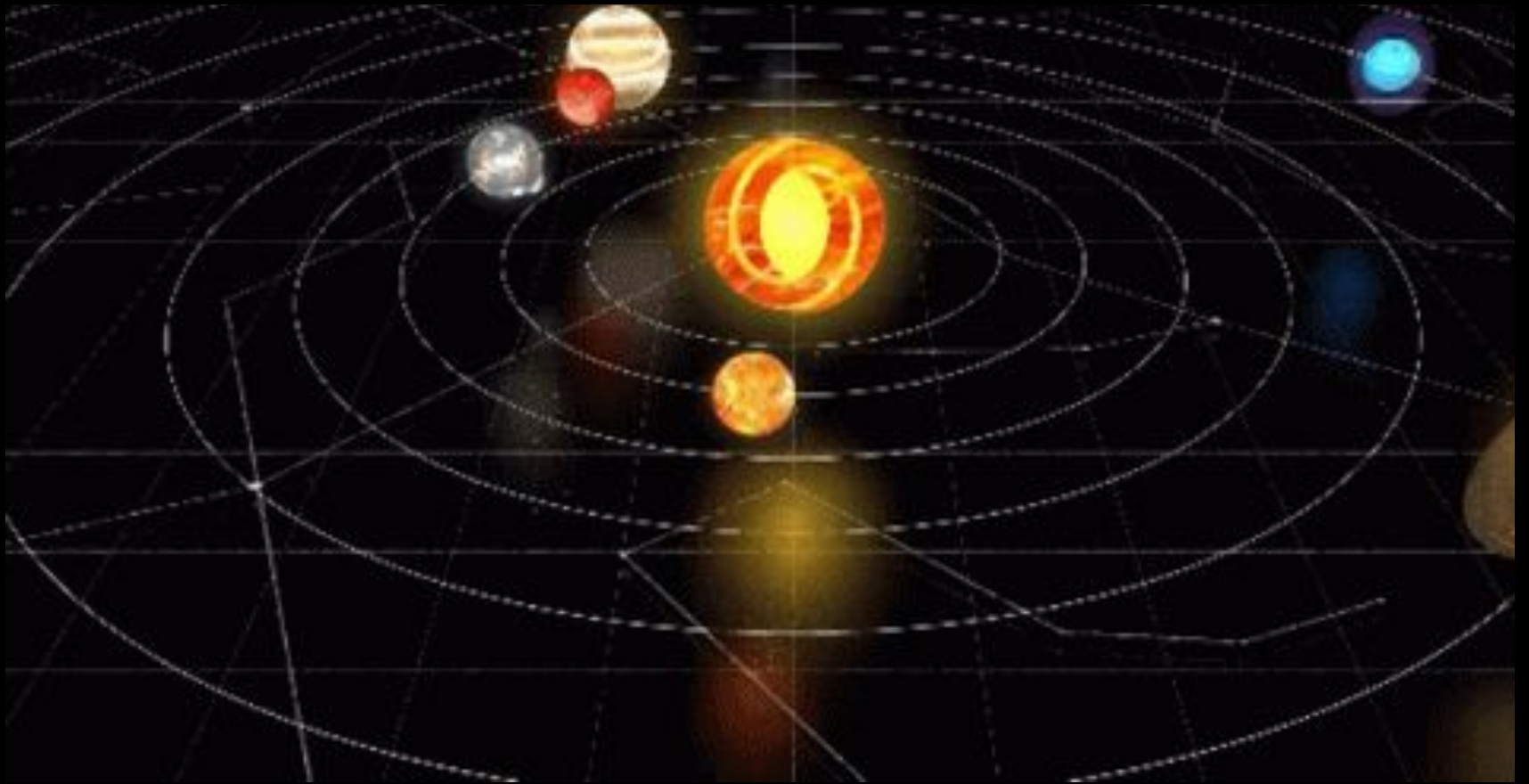
?



Sagittarius A*



Accretion disk:
◆ This is what
we really see



Not to scale

Sagittarius A*



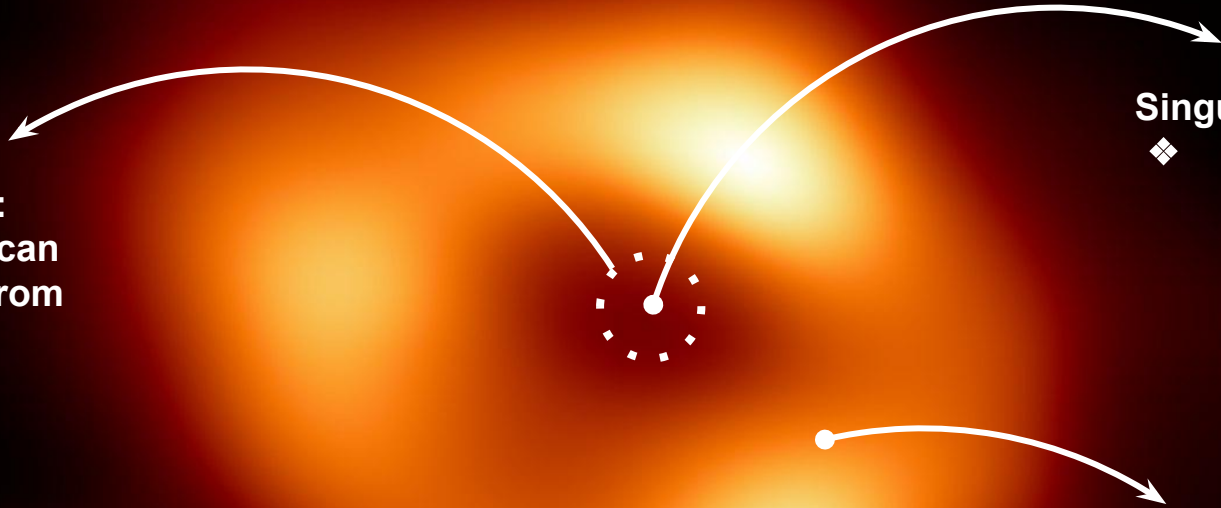
Accretion disk:
◆ This is what
we really see

Sagittarius A*

Event horizon:
◆ Nothing can escape from inside it

Singularity:
◆ 4 million Sun masses in a single point!!!

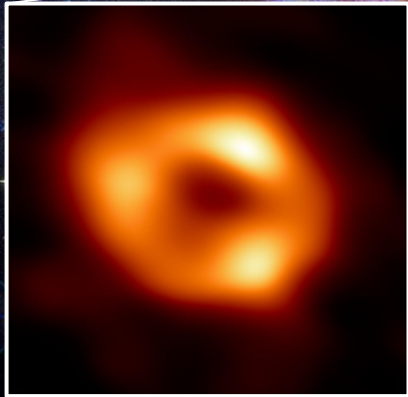
Accretion disk:
◆ This is what we really see



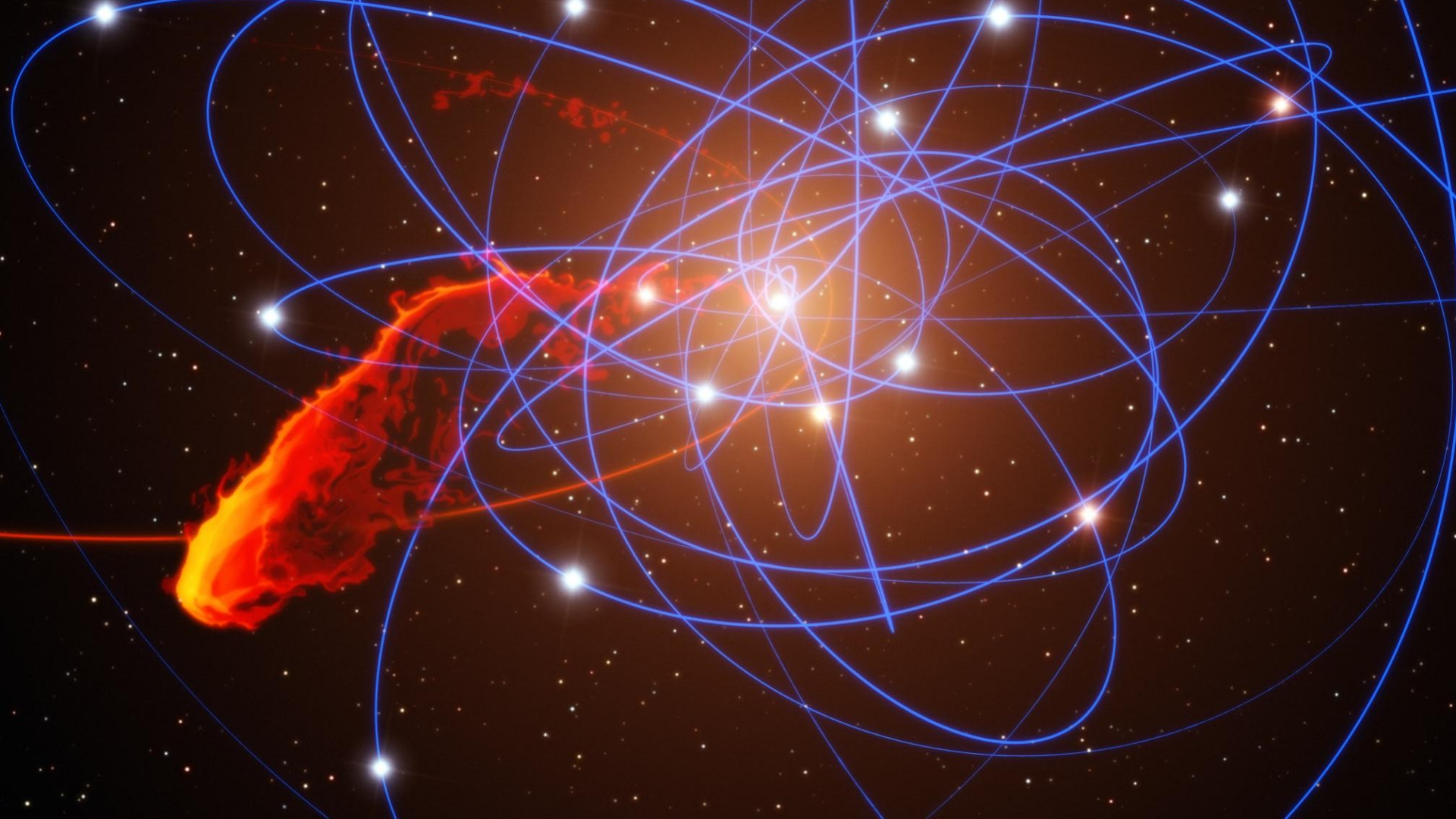


Our Milky Way

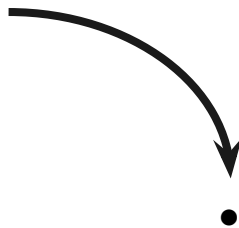
and now you know
what is there 😊



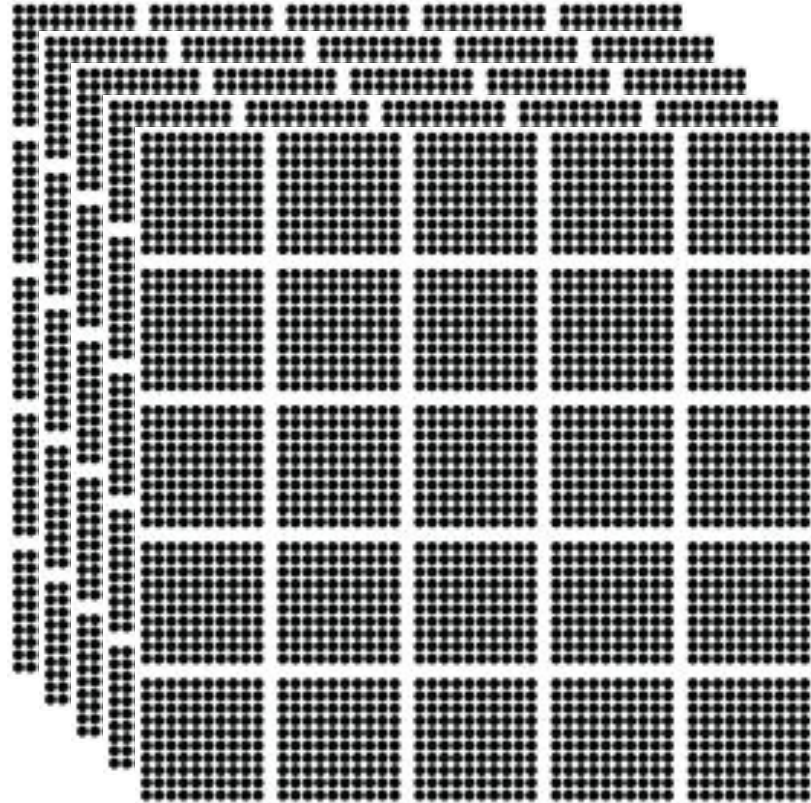
Back up



This is the Sun

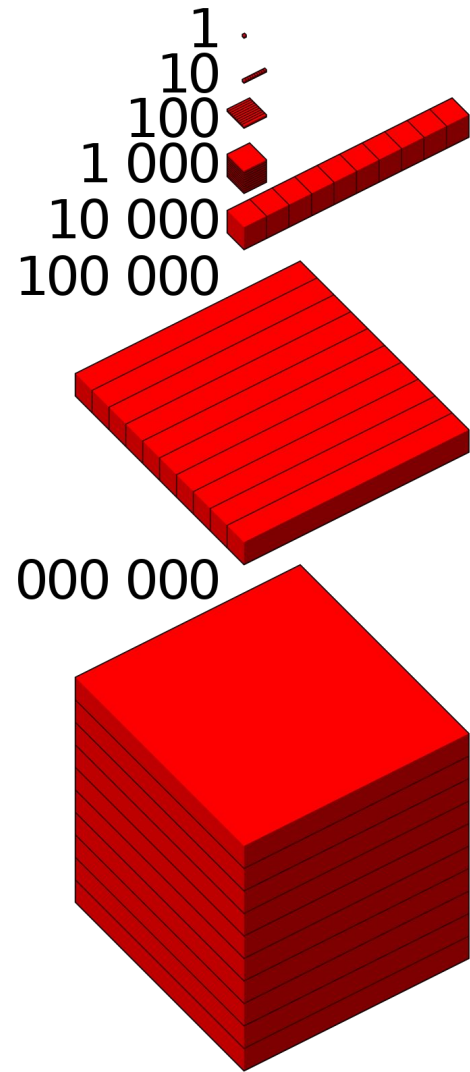


Add more Suns
together...



Apparently a million 80-milligram (1.2 gr) honey bees would weigh the same as an 80 kg (180 lb) person

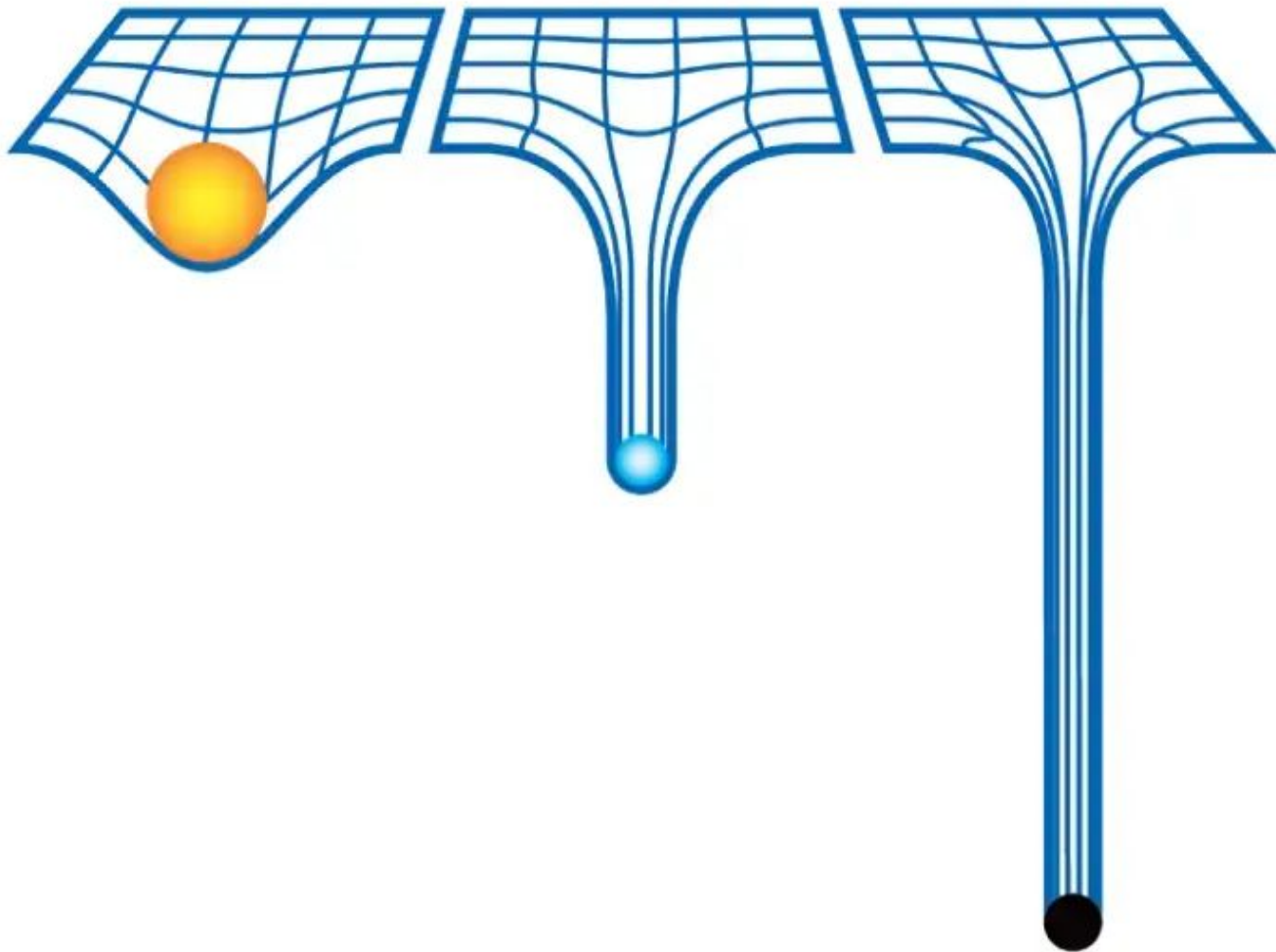
First image of Sagittarius A* black hole with the Event Horizon telescope

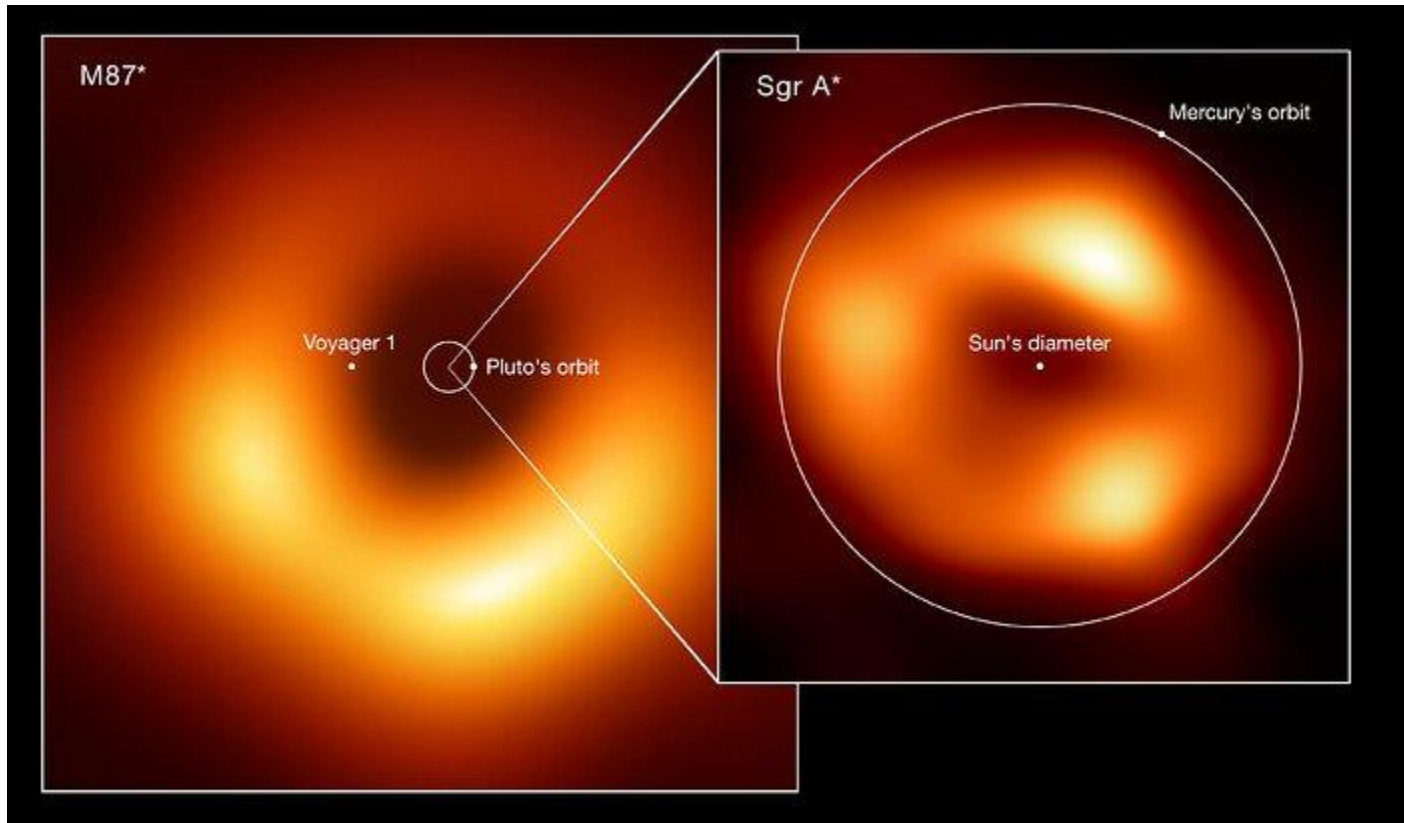


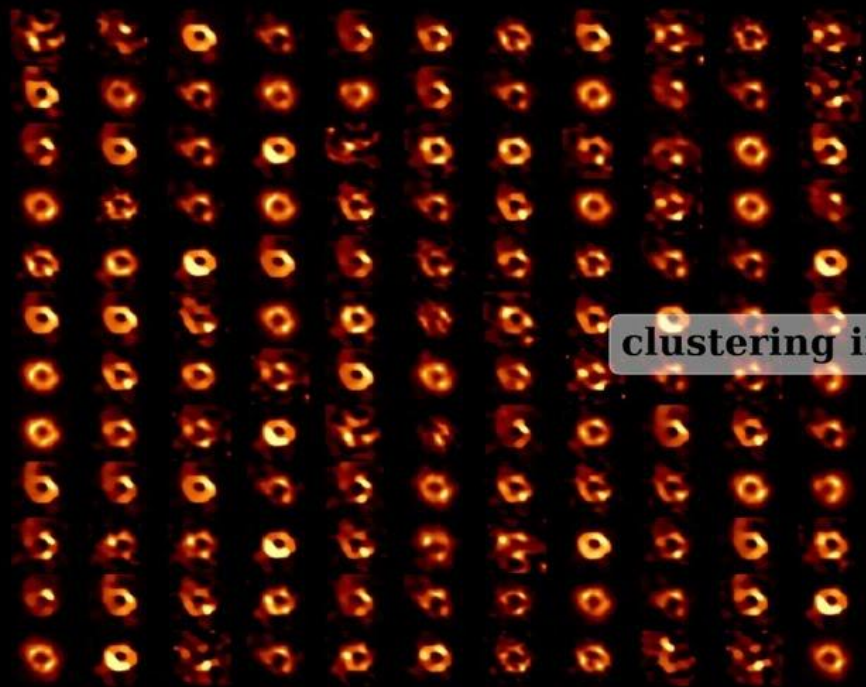
Sun

Neutron star

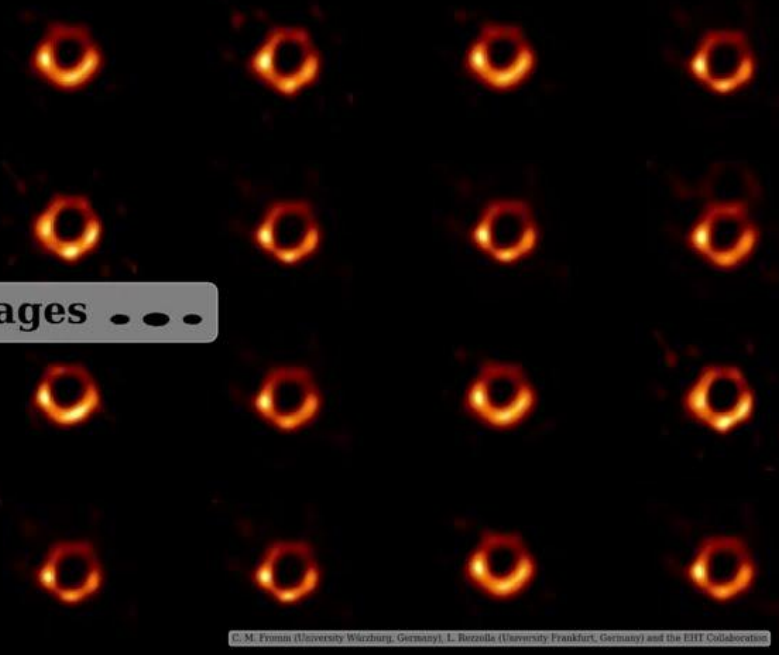
Black hole







clustering images . . .



C. M. Frassin (University Würzburg, Germany), I. Baranik (University Frankfurt, Germany) and the EHT Collaboration

cluster 1

cluster 2

cluster 3

cluster 4

cluster 1

cluster 2

cluster 3

cluster 4

