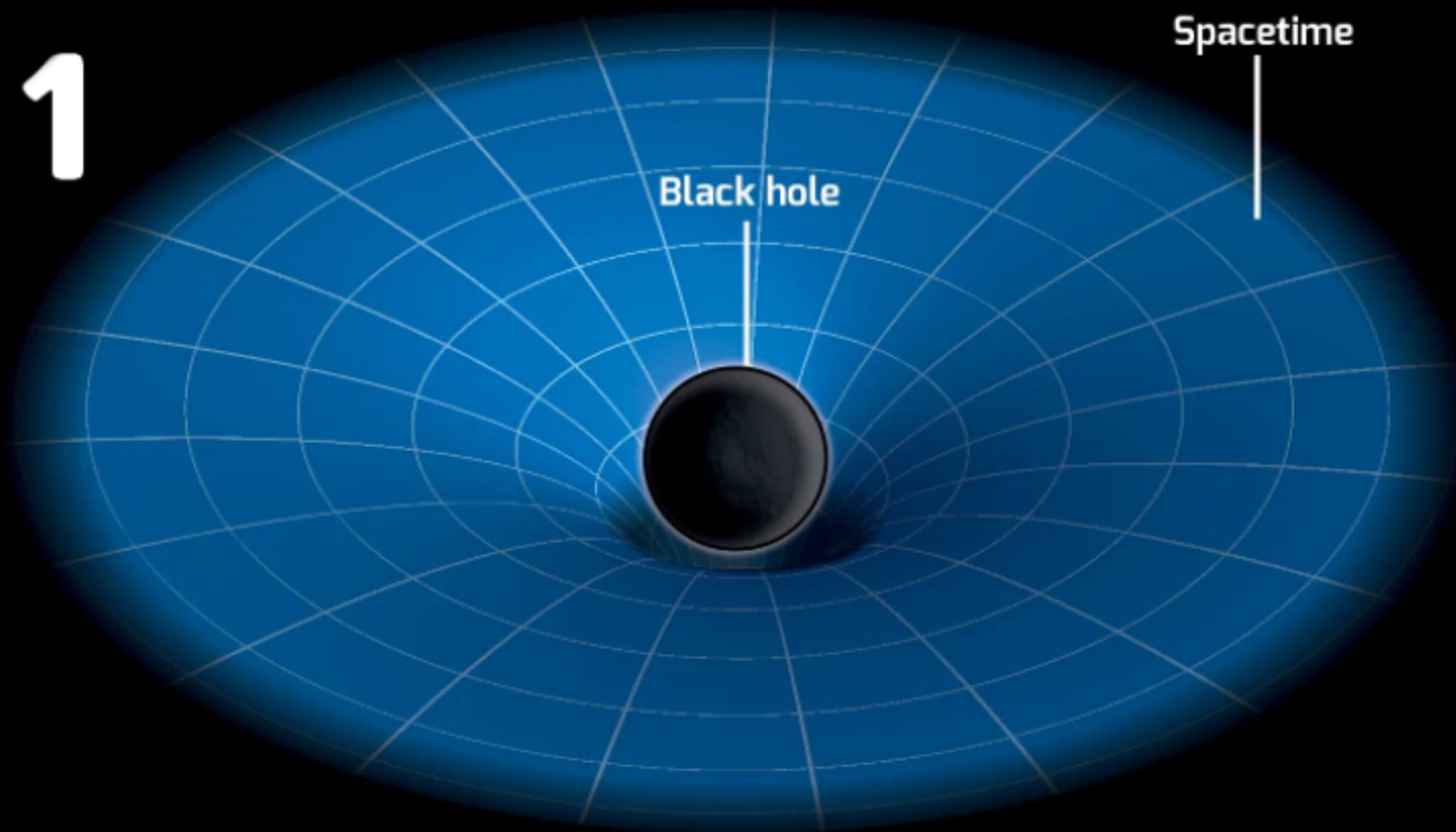




1

Spacetime

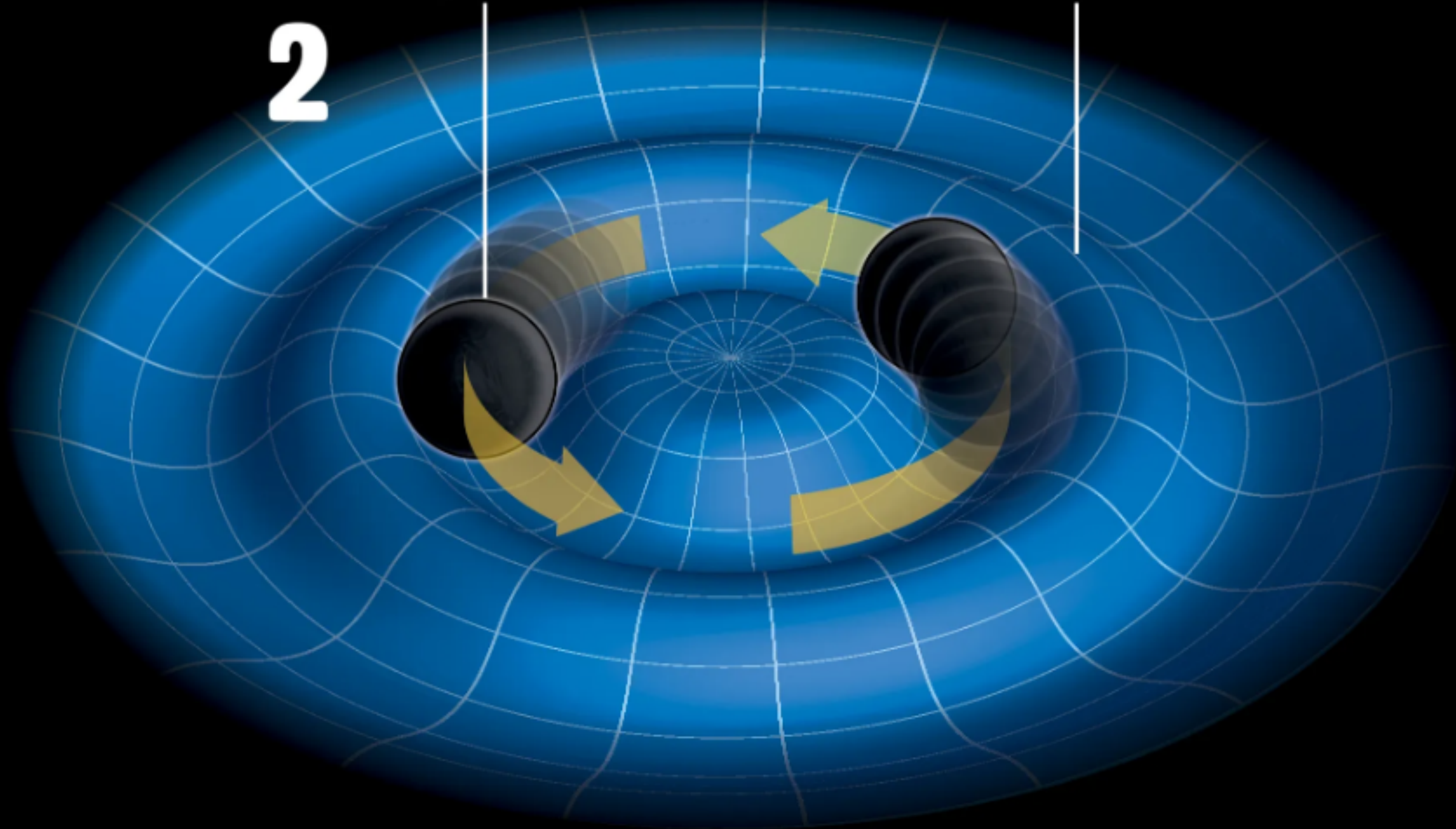
Black hole



2

Orbiting black holes

Gravitational wave



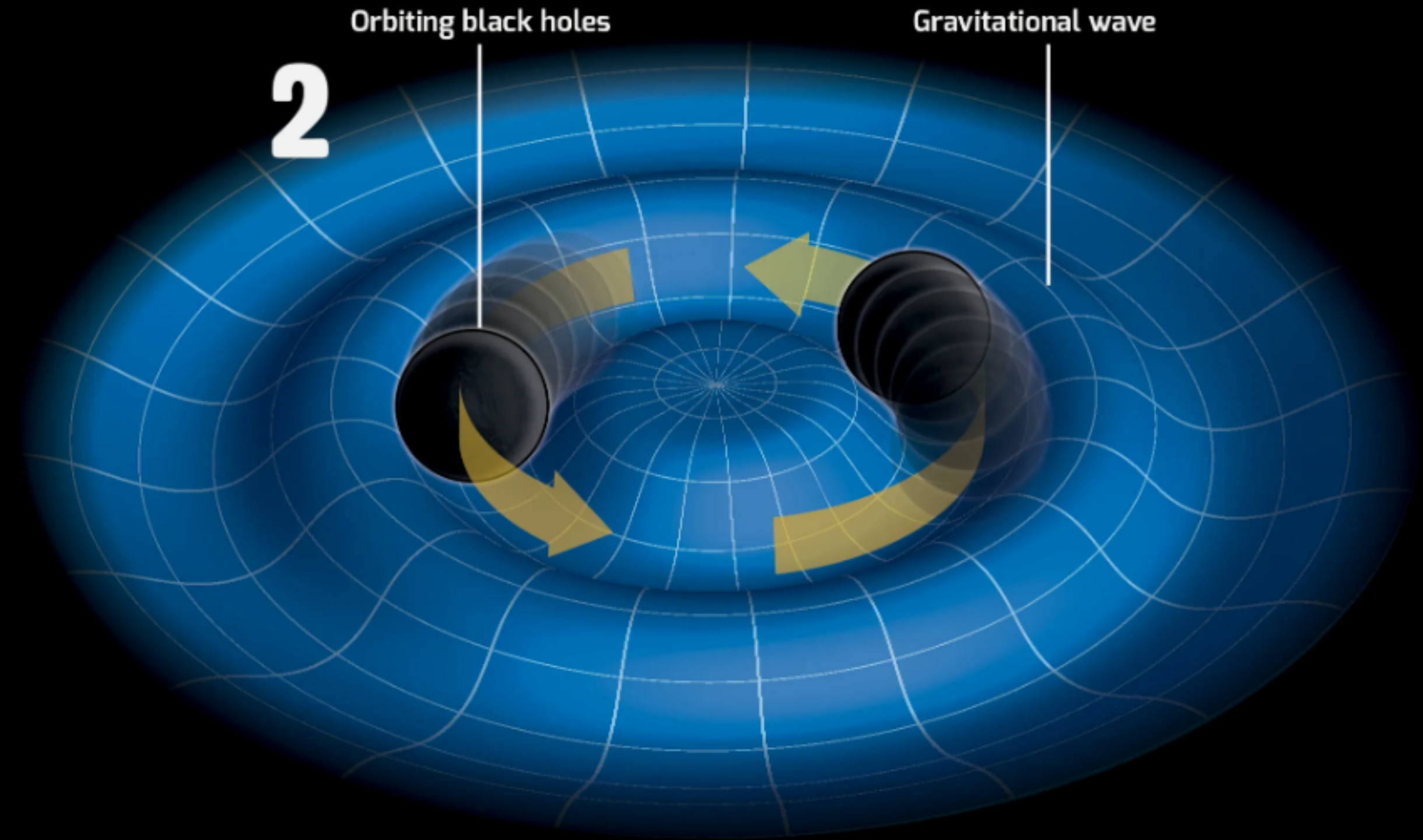
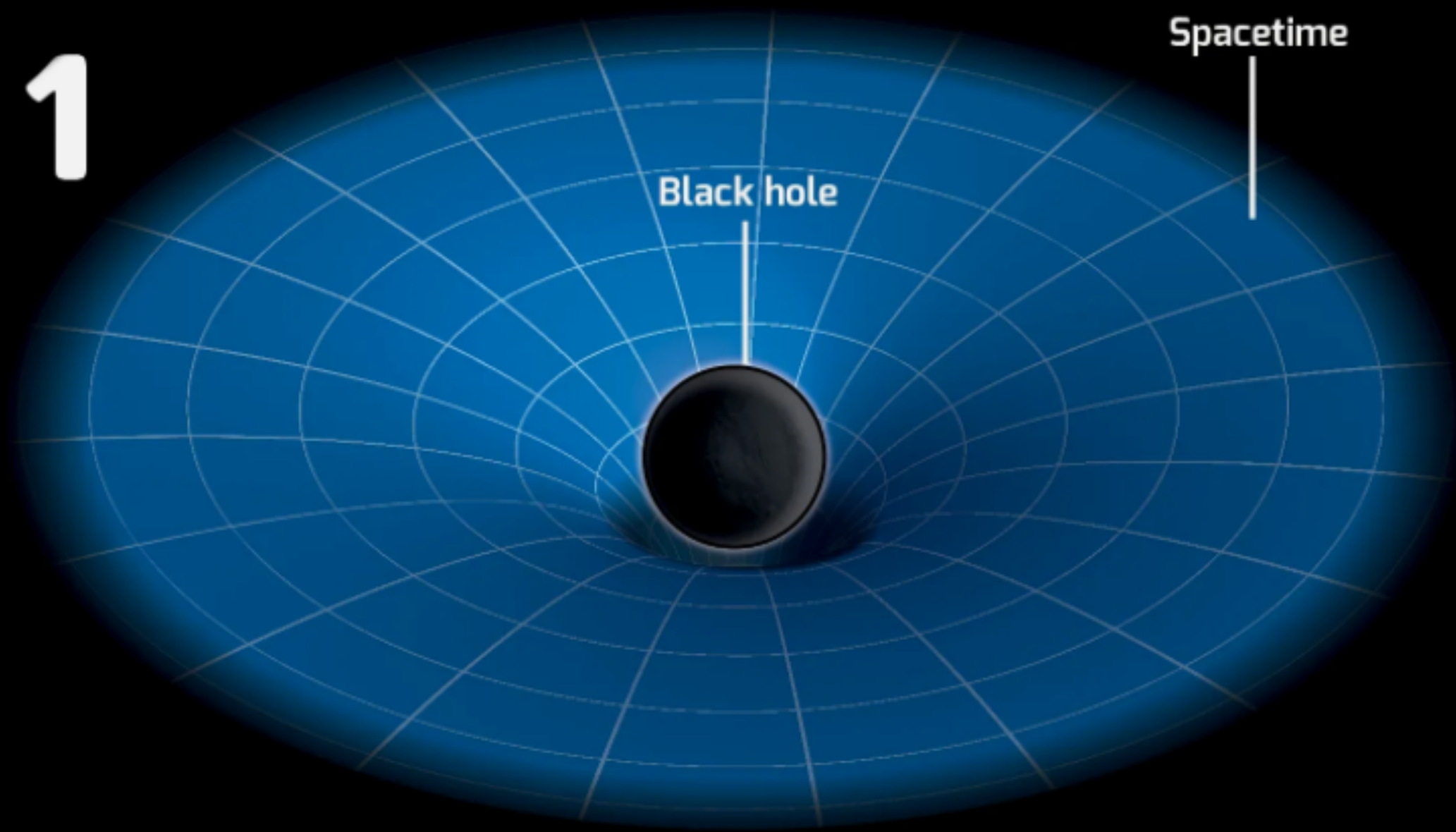






# 1. Matter curves spacetime

Curved spacetime tells matter how to move



## 2. Accelerating matter can produce Gravitational Waves

$\frac{d^2}{dt^2}$  quadrupole moment must be non-zero



# Sources