

Types of Black Holes

Type	Mass Solar Masses	Rsch	Location	Detection Method	Lifetime yrs
Supermassive	$>3 \times 10^6$	1/2 light-min	Centre of Galaxies	Doppler shift of orbiting gas or stars. Period of orbit of stars in images.	$10^{9.7}$ to $10^{10.6}$
Mid-mass (Intermediate)	500-5000	smaller than the solar radius	Globular Clusters	Doppler shift X-rays from accretion.	
Stellar Mass	1 to 10	3 to 30 km	Throughout disk of galaxies	Doppler Shift of companion. X-rays from accretion. Gravitational lenses.	around $10^{6.7}$
Primordial	less than 1	1 cm	Throughout universe	Gamma-rays if evaporating but this is the only type of black hole that has not been observed even indirectly.	around 10^{10}