



Population of  
black holes

GW from  
mergers

GW reach  
Earth





Black hole  
“demography”

“Shazam”  
GW song finder

GW Search &  
Detection



# LIGO-VIRGO-KAGRA Pipeline

Population of  
black holes

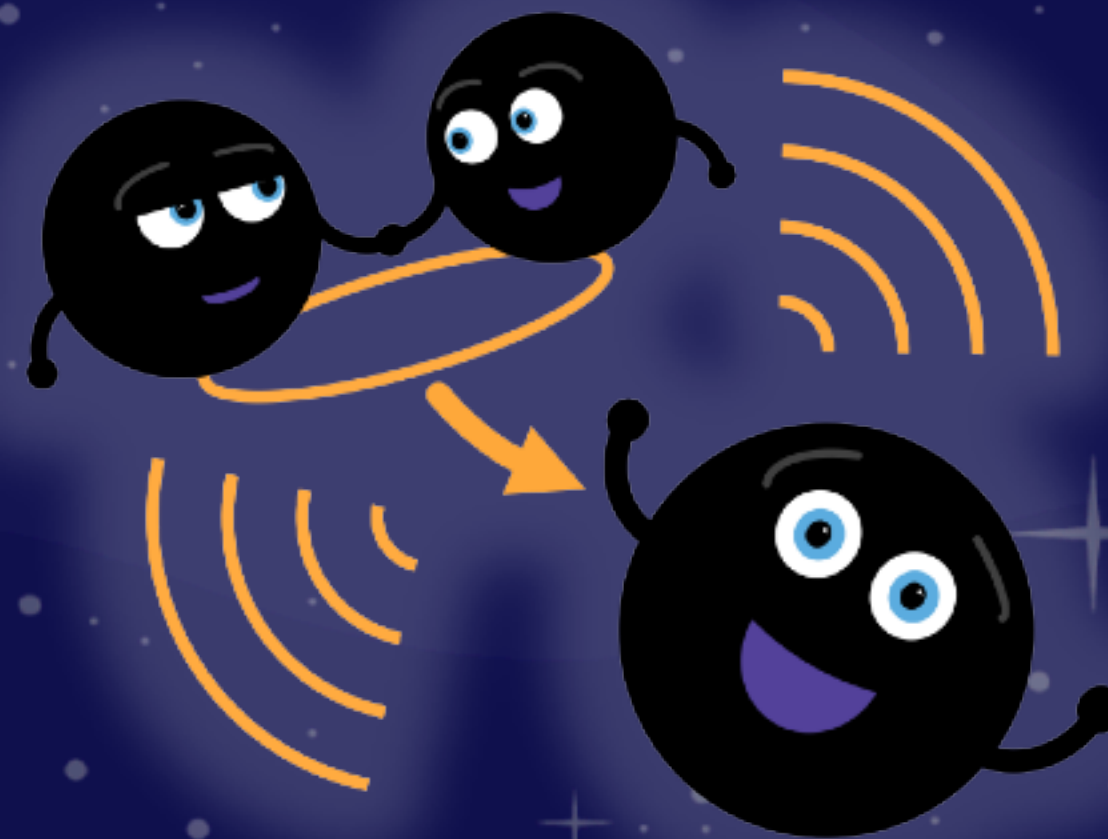
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**Field formation**

Different types  
of stars and  
interactions

Triples  
& beyond

Common  
envelope

Active  
galactic  
nuclei

Different  
types of star  
clusters

**Dynamical  
Formation**

**Gaseous  
environments**