

100s events — *time to understand populations!*

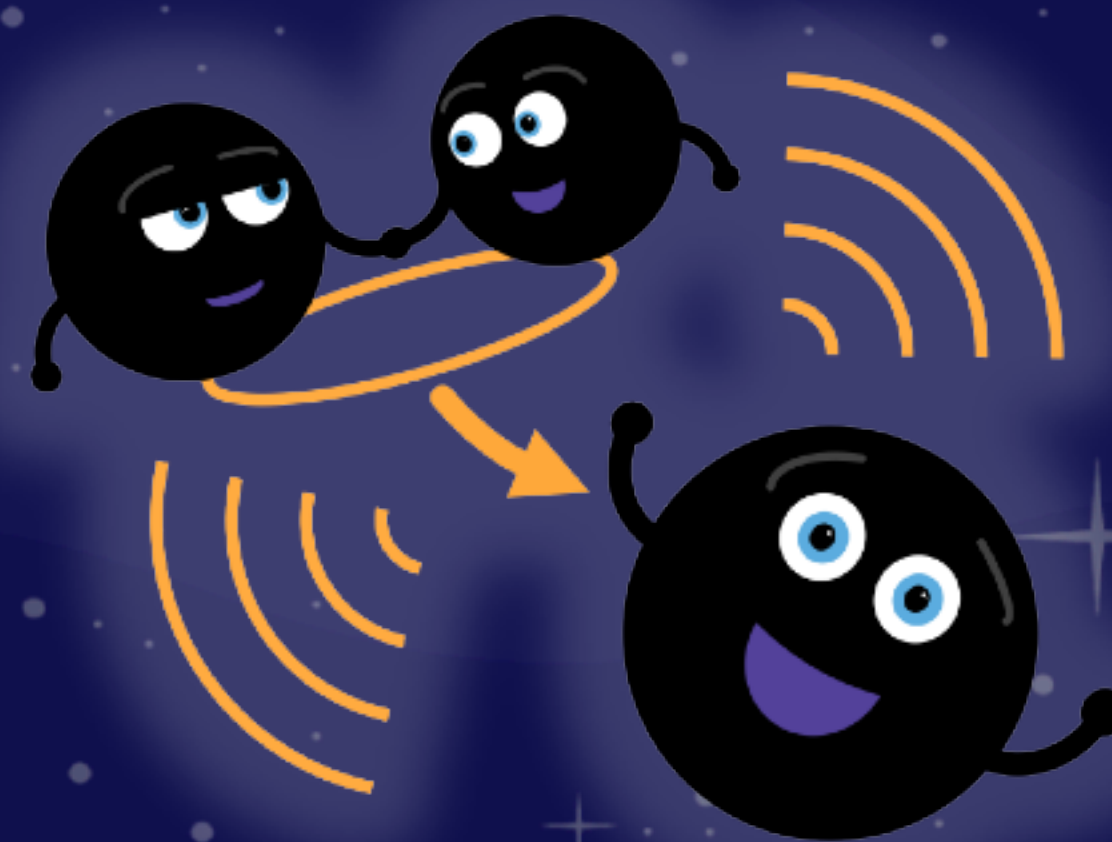
Population of
black holes

GW from
mergers

GW reach
Earth



Black hole
“demography”



✓ “Shazam”
GW song finder



✓ GW Search &
Detection

GW AND COSMOLOGY

- Standard siren — *EM counterpart*
- “Dark” siren — *Galaxy catalog*
- Spectral siren — *NS or BH mass function*
- GW background — *cosmic inflation*

Other..

- NS EOS — if we know EOS and tidal fx, redshift obtainable!
- Density of BBH mergers from one region