

# Black Hole Population vs. Stability Time

$r_{SMBH} = 0.1$  pc

- $m_i \in [1000.0, 1000.0] M_{\odot}$
- $m_i \in [1000.0, 2000.0] M_{\odot}$

Ejection Time [yr]

800

600

400

200

0

3

Simulations  
Set 0: 2768  
Set 1: 1

4

Simulations  
Set 0: 2354  
Set 1: 2

5

Simulations  
Set 0: 1960

6

Simulations  
Set 0: 1716

7

Simulations  
Set 0: 1792

8

Simulations  
Set 0: 1923

Number of IMBH [ $N$ ]

