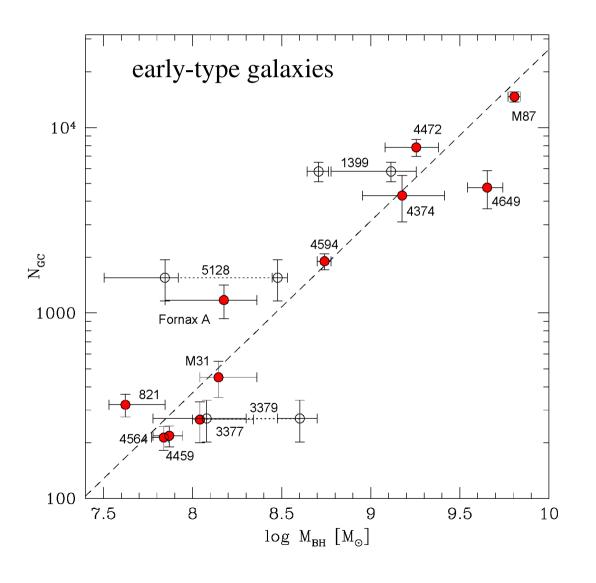
A Correlation between SMBHs and Globular Clusters

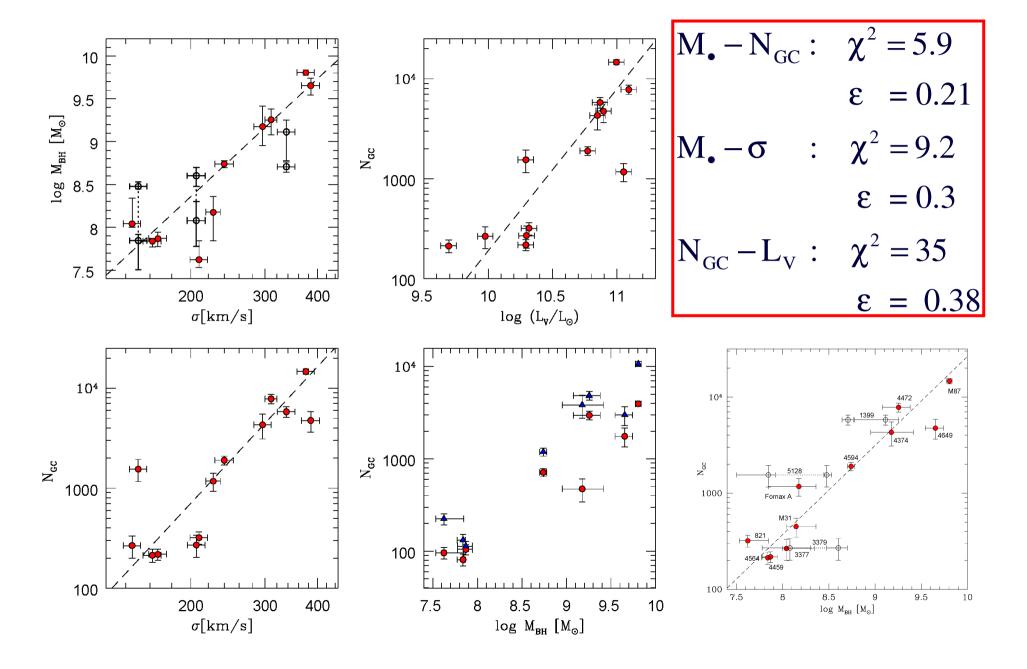
Burkert & Tremaine 2010, arXiv1004/0137



$$\mathbf{M}_{\bullet} = \mathbf{m}_{\bullet/*} \times \mathbf{N}_{GC}^{1.1}$$
$$\mathbf{m}_{\bullet/*} = 1.3 \times 10^5 \,\mathrm{M}_{\odot}$$

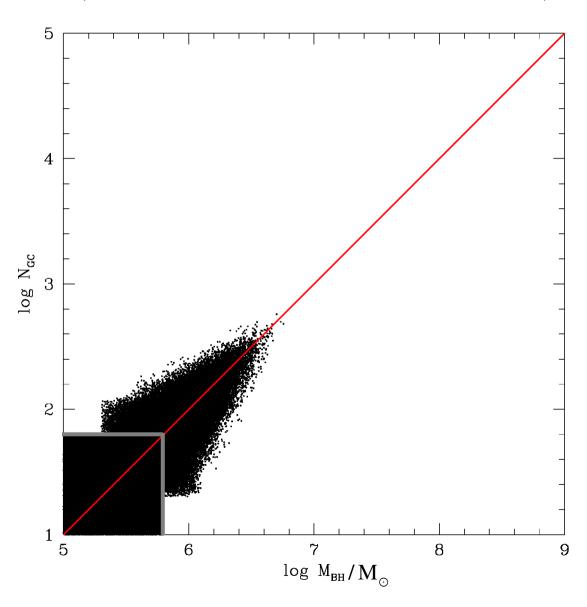
Gültekin et al. (09) Peng et al. (08) Gebhardt

A Secular Correlation?

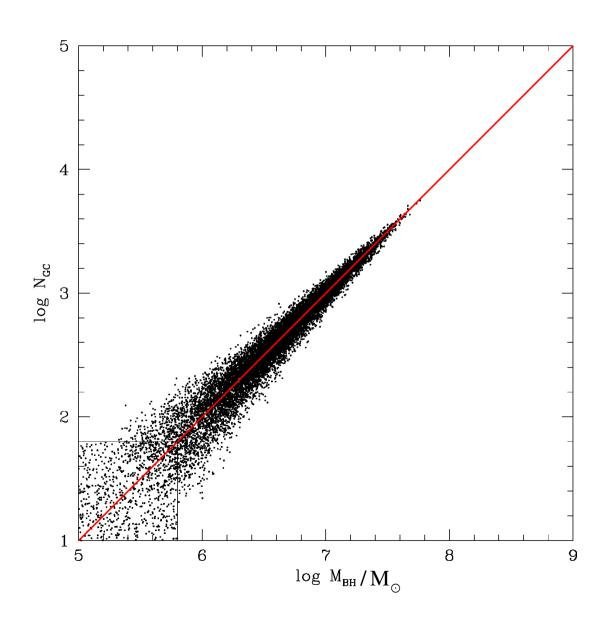


Origin: The Power of the Central Limit Theorem

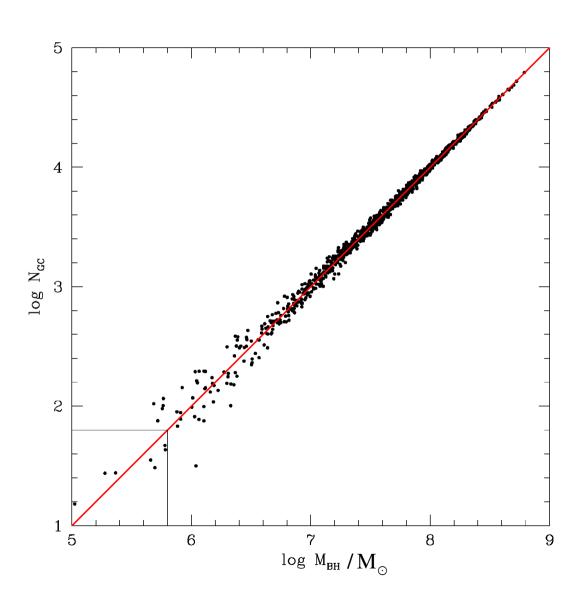
(Hirschmann et al. 10; Jahnke & Maccio 10)



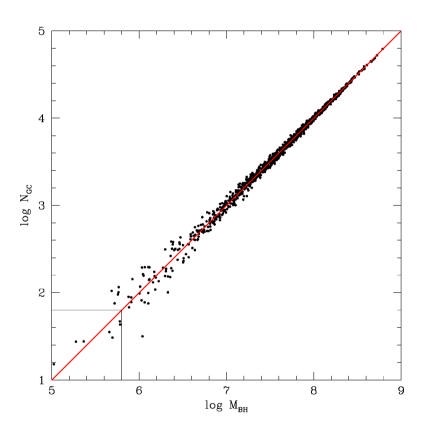
Origin: The Power of the Central Limit Theorem



Origin: The Power of the Central Limit Theorem



Implications



- For every GC on average one seed
 BH of similar mass formed.
- BH growth by **accretion** is negligible compared to **dry** BH **mergers**
- Secular formation of GCs is negligible
- **Disruption** of **GCs** by secular processes is negligible

