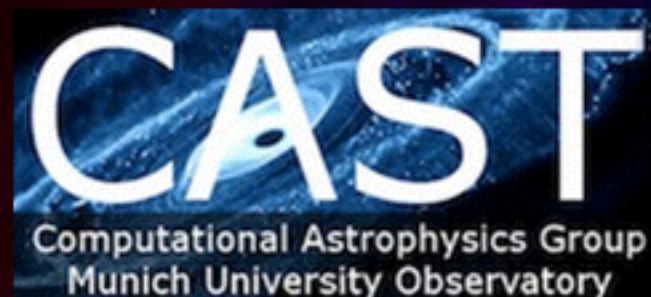


What can we learn about AGN from cosmological simulations?

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The Simulations

box-length: 500 Mpc

Box2/hr

128 Mpc/h

Box3/uhr
(down to $z=2$)

Box4/uhr

MAGNETICUM

www.magneticum.org

zoom onto disk galaxies

100 kpc

Galaxies

70 Mpc

very small volume / very high resolution

What can we learn about AGN
from cosmological simulations?

**Talk on Friday
S5 15:15**

BH model:

- AGN feedback
- accretion
- no pinning!

→ **Steinborn+15**

Do mergers trigger AGN?

$\log(L)=46.3$

$\log(L)=45.2$

$\log(L)=42.7$

Dual and offset AGN

→ **Steinborn+16**

50 kpc/h

10 Mpc/h

**How many galaxies/
BHs appear as AGN?**

How many galaxies/ BHs appear as AGN?

