

Summary of Paper Convo

ACT 1

Marconi et al. 2008 (M08)

“Hey people, we need to take radiation pressure into account for the velocity field, or we will under-estimate the black hole mass by a factor of 2-10! Especially for AGN at almost their Eddington luminosity. The new equation is $M = \text{math}$.”

Netzer 2009 (N09)

“No we don’t. I tested your equation on type-1 and type-2 AGN from SDSS data and including rad. Pressure had little effect on the mass and did weird things to the luminosity. Column density too high, probs.”

Marconi et al. 2009 (M09)

“You’re luminosity looks weird because you forgot to consider the dispersions of scaling relation.”

Netzer & Marizani 2010 (N10)

“We present a new analysis of the motion of pressure-confined, broad line region (BLR) clouds in active galactic nuclei (AGNs) taking into account the combined influence of gravity and radiation pressure.” - *First sentence in abstract*

SCENE

ACT 2

RM papers few years later:

“OMG my M-\sigma, M-L, and R-L relations fit so much better now!”

Andy’s exact words:

“Well, yeah that was the point of our first paper!”