Spectropolarimetry of the BLR

Rene Goosman
Makoto Kishimoto
PA as evidence for *polar* scattering in S2s
It all started with the Smiths……

PA rotation as evidence for *equatorial* scattering in Sy 1s

Mrk 985

*Smith et al., 2002*
Disk-like Broad Line Emitting Region

Equatorial scatterer
Smith et al., 2005
Smith et al., 2002

Mrk 985

Rotating PA

Broad PF line
Sharper Rotation
Narrower PF line
High S/N spectropolarimetry of type 1 Seyfert galaxies with ESO

NGC3783

Mrk 509

~30°
High S/N spectropolarimetry of type 1 Seyfert galaxies with ESO

NGC3783
High S/N spectropolarimetry of type 1 Seyfert galaxies with ESO

Mrk 509

PA

PO

PF

TF
How I Learned to Stop Worrying and Love the $\alpha$-Disks

Dan Capellupo
Hagai Netzer
Benny Trakhtenbrot
Julian Mejia-Restrepo
80+ hours of X-shooter to measure $z \sim 1.55$ SMBHs’ mass, accretion rate and spin
Capellupo et al., 2014, submitted
Capellupo et al., 2014, submitted