Testing the disk-corona interplay in AGN

1/3

R.Arcodia, A. Merloni, K. Nandra, G. Ponti

Max-Planck Institute for Extraterrestrial Physics, Munich



R. Arcodia

- Widely used but without a conclusive explanation
- Its slope<1 suggests a regulating mechanism: going from low to high \dot{m} , L_X increases less than L_{UV}





Testing the disk-corona interplay in AGN





Testing the disk-corona interplay in AGN





2. if spin=0 is assumed, models that reproduce the slope yield X-rays that are too weak w.r.t to the observed norm. of the $L_X - L_{UV}$



3. Outflowing coronae or a more realistic high-spinning BH population significantly relax the tension in the strength of the X-ray emission

