

TEMA 0. Physic of Active Galactic Nuclei

Contents

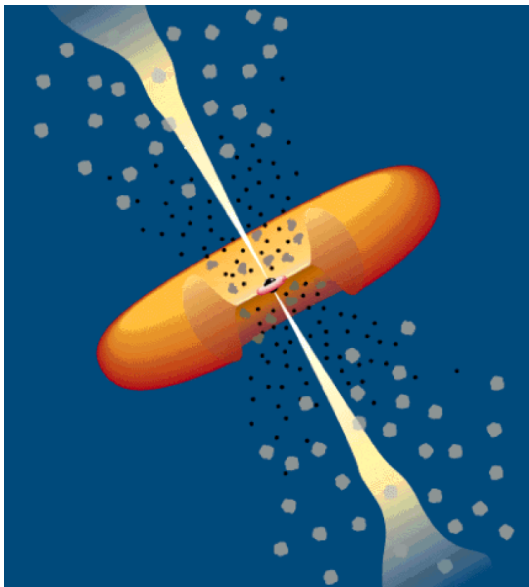
Dr. Juan Pablo Torres-Papaqui

Departamento de Astronomía
Universidad de Guanajuato
DA-UG (México)

papaqui@astro.ugto.mx

División de Ciencias Naturales y Exactas,
Campus Guanajuato, Sede Valenciana

Physic of Active Galactic Nuclei



Contents

- 1.- History and Overview
- 2.- Taxonomy and Unification
- 3.- Host Galaxies and Environment
- 4.- Evidence and (some) Physics of Black Holes
- 5.- Active Galactic Nuclei Energetics
- 6.- Continuum Emission

Contents

- 7.- Accretion Disks
- 8.- Broad/Narrow-Line Regions
- 9.- Radio Galaxies
- 10.- Jet Physics
- 11.- Massive Stars in AGN
- 12.- Quasar Surveys and Evolution
- 13.- Quasars as Cosmological Probes

Evaluation

- Homework
- Exposition
- Final exam

References

- Bradley M. Peterson, AN INTRODUCTION TO ACTIVE GALACTIC NUCLEI, CAMBRIDGE UNIVERSITY PRESS 1997.
- Julian H. Krolik, ACTIVE GALACTIC NUCLEI: FROM THE CENTRAL BLACK HOLE TO THE GALACTIC ENVIRONMENT, Princeton University Press: 1999.
- Aretxaga, I., Kunth, D., Mújica, R., Advanced Lectures on The Starburst-AGN connection, 2001, World Scientific Publishing.
- Lectures of Prof. Dr. Leon Koopmans, The Kapteyn Astronomical Institute is the department of Astronomy at the University of Groningen, Netherlands.
- Lectures of Dr. Itziar Aretxaga, Instituto Nacional de Astrofísica, Óptica y Electrónica, Puebla, México.