H. Elabidi, N. Ben Nessib and S. Sahal-Bréchot, *J. Phys. B.: At. Mol. Phys.*, **37**, 63, 2004
H. R. Griem, *Spectral Line Broadening by Plasmas*, McGraw-Hill, New York, 1974
H. R. Griem, *Principles of plasma spectroscopy*, Cambridge University press, 1997
H. R. Griem, *Phys. Rev*. **165**, 258, 1968
H. R. Griem, Yu. V. Ralchenko and I. Bray, *Phys. Rev*., **E56**, 7186, 1997
Yu. V. Ralchenko, H. R. Griem, I. Bray and D. V. Fursa, *Phys. Rev.* **A59**, 1890, 1999
Yu. V. Ralchenko, H. R. Griem, I. Bray and D. V. Fursa, *J. Quant. Spectrosc. Radiat. Transfer*, **71**, 591, 2001
Yu. V. Ralchenko, H. R. Griem and I. Bray, *J. Quant. Spectrosc. Radiat. Transfer*, *81*, 371, 2003
S. Sahal-Bréchot, *Astronom. & Astrophys*., **1**, 91, 1969
M. J. Seaton, *J. Phys. B.: At. Mol. Phys*., **21**, 3033, 1988

Poster paper

CONNECTION BETWEEN CENTRAL BLACK HOLE AND CIRCUM-NUCLEAR GAS KINEMATICS: THE CASE OF AGN WITH DOUBLE-PEAKED LINES

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Less than 5 percents of active galaxies have optical double-peaked broad lines which indicate presence of an accretion disk in the Broad Line Region (BLR). Using these lines, it is possible to determine accretion disk parameters (inner and outer radius, inclination). Here we will present an analysis of accretion disc parameters obtained from a sample Active Galactic Nuclei (AGN) with double peaked lines from SDSS.
These parameters will be compared with the circum-nuclear gas kinematics in order to make systematic analyze of mass transfer mechanism from galactic scales, down to nuclear scales, and feedback of activity on a process of star formation in the circum-nuclear region.