II WORKSHOP ON ASTROPHYSICAL SPECTROSCOPY Vrujci, Serbia, October 9-13, 2013 BOOK OF ABSTRACTS Edited by Milan S. Dimitrijević Society of Astronomers of Serbia, Belgrade 2013

SUPER-MASSIVE BLACK HOLE ESTIMATE USING SPECTO-POLAROMETRIC OBSERVATIONS

Luka Č. Popović

Astronomical Observatory, Volgina 7, 11060 Belgrade, Serbia

Here we discuss a method for super-massive black hole estimates using spectopolarometric observations. Using the fact that the polarization angle in the case of equatorial polarization depends only on the velocity field in the region around a supermassive black hole, we find that this can be used for confirmation of Keplerian emission gas motion, and consequently for the super-black hole mass estimate."