Poster

STARK BROADENING OF SPECTRAL LINES WITHIN SODIUM ISOELECTRONIC SEQUENCE

I. Tapalaga and I. Dojčinović

University of Belgrade, Faculty of Physics, Studentski Trg 12, 11000 Belgrade, Serbia E-mail: ivan.dojcinovic@ff.bg.ac.rs

This paper analyses Stark broadening of spectral lines within sodium like elements (Na I, Mg II, Al III, Si IV and P V). Strong correlation exists between Stark broadening and the upper level ionization potential. A functional dependence of Stark broadening on rest core charge of the emitter has been observed.

Invited Lecture

X-RAY VIEW OF ACTIVE GALACTIC NUCLEI

Y. Ueda

Department of Astronomy, Kyoto University, Kyoto 606-8502, Japan E-mail: ueda@kusastro.kyoto-u.ac.jp

X-ray observations provide us with unique information on the central engines of active galactic nuclei (AGNs). I will present a review of (1) the cosmological evolution of AGNs revealed by X-ray surveys and (2) X-ray constraints on the structure of AGNs including prospects for future observations with the ASTRO-H mission.