

Poster

STARK BROADENING OF SPECTRAL LINES WITHIN SODIUM ISOELECTRONIC SEQUENCE

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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

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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.