Poster

THEORETICAL MODELLING OF POLARIZED BROAD LINE PROFILES OF AGN

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The scattering-induced, velocity-dependent polarization across broad emission lines in AGN may depend on radial and azimuthal motions in an inflow/outflow configuration. We used *STOKES* to compute an exploratory grid of models adjusted to the polarization observations of other Seyfert galaxies. We compared the modelled profile (especially polarization angle) with the observations given in Afanasiev and Popović (2015).

Progress Report

IGNITION AND LUNCHING THE LARGE SCALE GALACTIC WIND

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The phenomenon of a wind blown out by galaxies with a high level of star formation activity is known more than half a century, and the first numerical model of it has been performed 20 years ago. In spite of such a long history neither a good understanding of the phenomenon, nor even a satisfactory quantitative concordance between galactic winds on the sky and in theoretical and numerical models are reached yet, besides only a qualitative similarity of a generic picture. Among others, the most interesting and interesting issues yet obscured are: i) the drivers of the large-scale galactic winds and outflows, ii) the mass loss rates measured observationally and numerically, iii) the amount of x-ray emission from their cones as seen in observations and estimated numerically, iv) spatial distribution of continuum emission and emission/absorption in spectral lines. I will speak on how these issues have been recently addressed, and why we want to go ahead further