

MULTI-LAYER PHOTOIONIZATION MODELS OF THE NUCLEAR  
AND CIRCUMNUCLEAR REGION OF TYPE 2 AGN

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**Abstract.** We present an overview of the physical conditions occurring in the nuclear and circumnuclear regions of nearby Active Galactic Nuclei of type 2 ( $z < 0.1$ ) and the results of simulation, using multicomponent photoionization models. The comparison of calculated with observed line ratios, measured in the spectra of a sample of around 1300 type 2 active galaxies, is critically discussed.