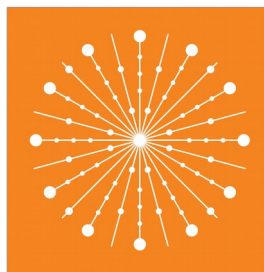


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Modeling the Spectral Energy Distribution of AKARI NEP-Deep AGN candidates

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The analysis of photometric data of galaxies, in rest-frame wavelength range from far-UV to far-IR, enables the derivation of galaxy properties with high accuracy by application of fitting specific components of energy spectrum. The aim of this work is to analyze 275 AGN candidates from AKARI NEP-Deep field, pre-selected by fuzzy SVM algorithm. AKARI delivers coverage of a number of photometric bands at 2-24 μm . The survey was cross-correlated with multiple data sources required for comprehensive SED profiles of candidate objects to be built. To compute the spectral models the open-source algorithms of CIGALE and AGNfitter were applied. The work discusses the profiles of AGN candidate objects, their accuracy, reconstructed properties, as well as the analysis of the population.