

*Poster*

## **GAS AND STAR MOTION MAPPING FOR THREE SEYFERT GALAXIES**

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We have studied the kinematics of the ionized gas and stellar component in three Seyfert galaxies using methods of 3D spectroscopy. The observations were performed at the prime focus of the SAO RAS 6-m telescope with the integral-field spectrograph MPFS and with a scanning Fabry-Perot interferometer, installed on the multimode device SCORPIO. Based on these data, the monochromatic maps and velocity fields in different emission lines were constructed. Also we have estimated rate of the ionized gas inflow/outflow motions.

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## **AGN DUSTY TORI AS CLUMPY TWO-PHASE MEDIUM: THE 10-MICRON SILICATE FEATURE**

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We analyzed the properties of the spectral energy distribution (SED) of active galactic nuclei (AGN) in the infrared domain emitted from a dusty torus, with a focus on the 10  $\mu\text{m}$  silicate feature. We modeled the AGN dusty torus as a clumpy two-phase medium with high-density clumps and low-density medium filling the space between the clumps. We employed three-dimensional radiative transfer code to obtain SEDs. We calculated a grid of models for different parameters and analyzed the influence of these parameters on the shape of mid-infrared emission. We found that dust distribution, optical depth and random arrangement of clumps in the innermost region, all have an impact on the shape and strength of the silicate feature.