

## EXPLORING THE ENVIRONMENT OF ACTIVE GALAXIES

**A. Grokhovskaya and S. N. Dodonov**

*Special Astrophysical Observatory, Nizhny Arkhyz, Russia*

*E-mail: grohovskaya.a@gmail.com*

We present the results of studying the effects of Active Galactic Nuclei (AGN) on neighboring galaxies in a dense local environment in the HS47.5-22 field. We identified galaxy groups in the HS47.5-22 field based on medium-band photometric data obtained at the 1-meter Schmidt Telescope of the Byurakan Astrophysical Observatory. The physical properties of galaxies, such as the star formation rate (SFR), the stellar and gas mass, colors in the rest frame, etc. were obtained with the software package CIGALE [1]. Next, a sample of galaxies with active nuclei in a dense local environment was selected for further observations with the 6-meter BTA telescope. The results will be presented in the report.

### References

- Boquien, M., Burgarella, D., Roehlly, Y., Buat, V., Ciesla, L., Corre, D., Inoue, A. K., Salas, H.: 2019, *A&A*, **622**, A103.