

## 9th SERBIAN CONFERENCE ON SPECTRAL LINE SHAPES IN ASTROPHYSICS

In the 50th year from the discovery of quasars (which are among the well known types of active galaxies), was held 9th Serbian Conference on Spectral Line Shapes in Astrophysics (SCSLSA).

9th SCSLSA brought together serbian and high profile scientist from abroad.

Today it is recognized that more than 99.9% of all observable matter in the universe is in the plasma state. Astrophysical plasma systems can be found in the variety of forms: from planetary nebulae, stars, HII regions, supernova remnants, intergalactic medium, up to active galactic nuclei (AGN). For example, relative strength emission lines of astrophysical plasmas are almost similar among themselves up to low order of approximation. Beside this, the experimental and theoretical investigations of laboratory plasma have been applied in spectroscopic astrophysical research (especially atomic data needed for line shape calculations).

SCSLSA series of conferences, unique in Balkan region, gather astronomers and physicists with the aim of improving our knowledge and application of emission/absorption lines as probing tools of the plasma in the Universe.

Here, a short review of 9 SCSLSA is given.

**Key words:** line profiles, plasma, stellar atmospheres, polarization, active galactic nuclei, astronomy in Serbia