

## STUDY OF FAINT EMISSION SOURCES AND MASSIVE STARS IN IC 1613 GALAXY

A. Yarovova<sup>1,2</sup>, A. V. Moiseev<sup>2,1</sup>, M. M. Vučetić<sup>3</sup> O. V. Egorov<sup>4,1</sup>  
and D. Ilić<sup>3</sup>

<sup>1</sup>*Moscow State University, Sternberg Astronomical Institute,  
Moscow, 119234 Russia*

<sup>2</sup>*Special Astrophysical Observatory, Russian Academy of Sciences,  
Nizhnii Arkhyz, 369167 Russia*

<sup>3</sup>*Department of Astronomy, University of Belgrade, Studentski trg 16,  
11000 Belgrade, Serbia*

<sup>4</sup>*Astronomisches Rechen-Institut, Zentrum für Astronomie der  
Universität Heidelberg, Monchhofstrasse 12-14, D-69120 Heidelberg, Germany*

*E-mail: yaan.ph@gmail.com*

We present the study of low-brightness emission regions and feedback effect from massive stars in local dwarf irregular galaxy IC 1613. By using observations in H $\alpha$  and [S II] narrow-band filters, as well as long-slit spectroscopy, we searched for new supernovae remnants and nebulae related to evolution of massive stars. Here we present obtained data for three diffuse shell-like, ionized nebulae located in the giant ( $\sim 1$  kpc) atomic HI gas supershell. Also, we consider the spectrophotometric properties of the known WR star candidates in this galaxy, using both our He II image and archival MUSE/VLT spectral data.