

# Blue Massive Stars in NGC 55: A First Quantitative Study

N. Castro, A. Herrero, M. Garcia, C. Trundle, F. Bresolin, W. Gieren, G. Pietrzynski, R.-P. Kudritzki, and R. Demarco

**Abstract** We present the first census of blue massive stars in NGC 55, a galaxy of the Sculptor group at 1.94 Mpc. This study is based on optical low-resolution spectra of approximately 200 objects taken with VLT-FORS2. We have performed the spectral classification of these objects. The estimated stellar radial velocities show general agreement with the existing HI rotational velocity data. A first qualitative study of the stellar metallicity suggests that its global distribution over NGC 55 is close to that of the LMC, as derived from previous studies of H II regions. We have also determined the stellar parameters of one star showing that the resolution and the quality of the spectra are reliable to perform a quantitative analysis.

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N. Castro, A. Herrero, and M. Garcia  
Instituto de Astrofísica de Canarias, C/ Vía Láctea s/n, E-38200, Tenerife, Spain  
e-mail: norberto@iac.es

C. Trundle  
Astronomy Research Centre, Department of Physics & Astronomy, School of Mathematics & Physics, The Queen's University of Belfast, Belfast, UK

F. Bresolin and R.-P. Kudritzki  
Institute of Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822, USA

W. Gieren and G. Pietrzynski  
Departamento de Física, Astronomy Group, Universidad de Concepción, Casilla 160-C, Concepción, Chile

R. Demarco  
Department of Physics and Astronomy, The Johns Hopkins University, Baltimore, USA