

Contributed Talk

Splinter Populations

SEARCH FOR EMISSION LINE OBJECTS IN GALACTIC GLOBULAR  
CLUSTERS

Fabian Göttgens

*Institut für Astrophysik, Georg-August-Universität Göttingen*

Over a million stellar spectra have been obtained as part of the ongoing GTO program “A spectroscopic census of Galactic globular clusters” with the integral field spectrograph MUSE at ESO-VLT. Since most stellar spectra contain absorption features only, emission lines point to stars that are peculiar and differ from a normal main-sequence or red giant star. With an automated approach, we detect known cataclysmic variables, RR Lyrae variables, a black hole companion, a low-mass X-ray binary and other variable stars only by the presence of emission lines in their spectra. This approach leads to the detection of two new cataclysmic variables, several unidentified curious spectra, and an emission nebula.