

O-Star binaries in the Northern Hemisphere. Exploitation of the LiLiMaRlin data.

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Abstract

We present the first stages of the MONOS: Multiplicity Of Northern O-type Spectroscopic systems, PhD Thesis of the PI of the poster, a description of the work done and to be done in the future. MONOS is an ambitious project designed to collect information about O-type spectroscopic multiple systems in the northern hemisphere, including an extensive bibliographic search, new orbital solutions, spectral classification both from the literature and from the Galactic O-Star Spectroscopic Survey (GOSSS). The MONOS project aim is therefore to exploit the data from LiLiMaRlin. LiLiMaRlin is a library of libraries of high-resolution spectroscopy of massive stars obtained from four different surveys (CAFÉ-BEANS, OWN, IACOB, and NoMaDS) and additional data from our own observing programs and public archives. (See poster).