GREAT-ESF Workshop

Stellar Atmospheres in the Gaia Era:

Quantitative Spectroscopy and Comparative Spectrum Modelling

Free University Brussels - VUB Building D Campus Oefenplein 23 & 24 June 2011

http://great-esf.oma.be Great.esf@oma.be

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SOC:

J. Groh (MPI, Bonn, Germany)

P. Hauschildt (Obs. Hamburg, Germany)

U. Heiter (Univ. Uppsala, Sweden)

A. Lobel (Royal Obs. of Belgium, Brussels)

B. Plez (Univ. Montpellier, France)

N. Przybilla (Obs. Bamberg, Germany)

R. Sordo (INAF Padova, Italy)

LOC:

J.-P. De Greve (VUB)

A. Lobel (ROB)

W. van Rensbergen (VUB)









Discussion Session III

C1: A number of large surveys are under way. What additional surveys would be needed to substantially advance our knowledge of stellar atmospheres (both for cool and hot stars)?

C 2: What are the most important atomic and molecular data that should be improved or determined for realistic modelling of hot and cool star spectra? Which species and/or which type of data, e.g. level energies, transition probabilities, line broadening parameters, ...; what wavelength region?

Discussion Session III

C 3: Do the standard models used for spectroscopic analysis of massive hot stars (1-D, spherical symmetric, stationary wind, full line blanketing) provide sufficiently accurate stellar and wind parameters? Are we neglecting important physical mechanisms, such as micro- and macro-clumping, radiative instabilities, non-spherical winds?