

- Petrović, Z. Lj., and Phelps, A.V. 1991 Proc. of the International Seminar on Reactive Plasmas, **E-3**, 351.
Mills, R.L., Raz, P.C., Dhandapani, B., Mayo, R.M., and He, J. 2002, J. Appl.Phys., **92**, 7008.
Jovičević, S., Ivković, M., Konjević, N., Popović, S., and Vušković, L. 2004, J. Appl. Phys., **95**, 24.
Tatarova, E., Dias, F.M., Puač, N., and Ferreira, C.M. 2007b, Plasma Sources Sci. Technol. (in press).

Invited lecture

RECENT WORK ON LINE SHAPES FOR THE SPECTRA OF COOL STARS

G. Peach, S. J. Gibson, D. F. T. Mullanphy, V. Venturi, I. B. Whittingham

*University College London, Department of Physics and Astronomy,
Gower Street, London WC1E 6BT, UK
e-mail: ucap22g@ucl.ac.uk*

Accurate pressure broadened profiles of alkali resonance doublets perturbed by helium are needed for modelling of the atmospheres of late M, L and T type brown dwarfs and for generating their synthetic spectra in the region 600 - 900 nm. Previous fully quantum-mechanical calculations of the line widths and shifts are extended to consider the line-wing profiles where impact theory is no longer valid. Results will be presented at the Conference.

Invited lecture

MODELLING THE SPECTRUM OF THE STELLAR POPULATION IN STAR FORMING AND ACTIVE GALAXIES

P. Prugniel

*CRAL - Observatoire de Lyon
9 Av. C. André, 69561 Saint-Genis Laval, France
e-mail: prugniel@obs.univ-lyon1.fr*

Emission lines in active nuclei or star forming galaxies are superimposed to the absorption line spectrum of the underlying stellar population. Modelling this stellar population allows to make a proper subtraction of this component in order to analyse the emission lines, but it also gives a handle on the age, metallicity and possibly history of the stellar population.

I will review the possible approach to this question and discuss the recent progress in modelling a stellar population.