Absolute Magnitude and Kinematics
of Barium Stars

MARIE-ODILE MENNESSIER[1], ANA GÓMEZ[2],
XAVIER LURI[3], SUZANNE GRENIER[2], LOUIS PRÉVOT[4],
JORDI TORRA[3], and FRANCESCA FIGUERAS[3]

[1] *Université Montpellier II, Montpellier, France*
[2] *Observatoire de Paris, Meudon, France*
[3] *Universitat de Barcelona, Barcelona, Spain*
[4] *Observatoire de Marseille, Marseille, France*

We apply to Ba stars a maximum-likelihood method able to distinguish several groups in a given sample and to provide estimates of the mean absolute magnitude and kinematic parameters for each of them. Three group can be distinguished:

- the first contains normal giants,
- the second contains more intrinsically luminous stars,
- the third is smaller and consists of subgiants.

This paper has been published by Gómez et al., *A&A*, 319, 881, 1997.