

DIVISION IX / COMMISSION 30 / WORKING GROUP 9TH CATALOGUE OF SPECTROSCOPIC BINARY SYSTEMS

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PROCEEDINGS BUSINESS MEETING on 21 August 2006

1. Progress report

The current content of the database was presented, emphasising the substantial progress accomplished since the IAU XXIV General Assembly in Manchester, 2000. More than 1 200 stellar systems have been added to the 8th Catalogue over the past six years, for a total of 540 papers compiled. A first paper was published to make the community aware of this facility (Pourbaix *et al.* 2004).

The usefulness of the work carried on by the Working Group was assessed through the statistics of the access to the database. More than twenty thousands plots have been retrieved since January 2001 and 350 copies of the tar ball with the database content have been downloaded since August 2003. The 22 citations to the 2004 paper were also a good indication of our success.

2. Future

A cross matching SB9 with the bibliographic references by H. Levato and co-workers reveals that the completeness of SB9 is about 75% of the published orbits. Strategies were therefore discussed in order to maximise the completeness minimising the work (i.e., rank the contribution of each missing papers in term of benefit for SB9 and enter the paper according to that rank).

The case of extrasolar planets was also discussed. In one hand, those in favour of adding the spectroscopic orbits of extrasolar planets without indication of the planetary nature of the companion. The drawback of this approach is that planetary and stellar companions would be mixed together when plotting, for instance, a (e - $\log P$) diagram. In the other hand, those in favour of clearly identifying the planetary systems. The drawback is here that the planetary nature of the companion cannot be assessed in most cases. It was finally decided to add the extrasolar planets with a special tag (at the epoch of the discovery).

3. Closing remarks

D. Pourbaix thanked all the contributors, inside and outside the work group, for their help over the past three years.

Dimitri Pourbaix
chair of the Working Group

References

Pourbaix, D., Tokovinin, A. A., Batten, A. H., Fekel, F. C., Hartkopf, W. I., Levato, H., Morrell, N. I., Torres, G., & Udry, S. 2004, *A&A*, 424, 727