

**CURRENT RESEARCHES IN THE VISUAL DOUBLE
AND MULTIPLE STAR SYSTEMS**

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Comprehensive review of the current researches in the field of double and multiple systems is presented. For better accessibility the presentation of the subject is considered in three sections:

1. Fundamentals of the double and multiple star researches;
2. Methods and results of processing of the basic material;
3. Orientation of the theoretical researches;

In the framework of considering of the basic material the following elements are conemplated:

- instruments involved;
- observing programmes;
- data base;
- cadres;

The Section relating to the basic data processing contains the survey of:

- methods of orbital elements calculus;
- analysis of two latest catalogues of orbital elements, including the reference to the forthcoming catalogue.

The current theoretical researches are presented here primarily through works grounded on the basic visual double star material.

Finally, briefly reviewed are the results of visual double and multiple stars studies conducted at the Belgrade Observatory.