

Binary star database (BDB) internals

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Abstract

The architecture of the Binary star DataBase (BDB) being constructed in the Institute of astronomy of the Russian Academy of Sciences is described. The purpose of the BDB creation is to join the comprehensive information on binary stars of all observational and evolutionary types originated from a variety of catalogues and databases of binary and multiple stars, as well as to make a convenient tool for work with these catalogues data. We consider the main problems arising in the process of BDB implementation, the methods of gathering information of original catalogues, as well as the schemes of cross-identification of the objects. The BDB is realized on the basis of the Nagare framework (stackless Python/SQLAlchemy/Elixir) and of the Postgresql database management system, its beta-version is available at <http://bdb.inasan.ru>.

Key words: databases, binary stars.

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