To the problem of heterogeneous data organization for the multi-frequency study of radiosources

O.P. Zhelenkova, V.N. Chernenkov, T.A. Plyaskina, V.S. Shergin

Abstract

Today the Virtual Observatory tools provide easy access to astronomical data and improve the efficiency of researches. Based on the existing web technologies the astronomical community is developing on realization greater data semantic connectivity. This will put the virtual observatory services to a new level of exchange of not only data but also knowledge. However, there is no development of tools for actualization information collected from web resource, and a means of organizing heterogeneous data prepared by the user for scientific analysis, which could improve further work. We consider the approach to organization of diverse information for a studying object, based on the development of the existing formats of astronomical data and tools to support semantic data connectivity.

Key words: Virtual Observatory, astronomical data, the standard storage format for data exchange.

About authors

Zhelenkova Olga Petrovna - Candidate of Phisics and Mathematics, Senior Researcher of The Special Astrophysical Observatory, Russian Academy of Sciences, Nizhniy Arhiz, Kabardino-Balkaria Republic, Russian Federation. e-mail: zhe@sao.ru

Chernenkov Vladimir Nikolaevich - Candidate of Phisics and Mathematics, Senior Researcher of The Special Astrophysical Observatory, Russian Academy of Sciences, Nizhniy Arhiz, Kabardino-Balkaria Republic, Russian Federation. e-mail: vch@sao.ru

Plyaskina Tatiana Anatolievna - Researcher of The Special Astrophysical Observatory, Russian Academy of Sciences, Nizhniy Arhiz, Kabardino-Balkaria Republic, Russian Federation. e-mail: taap@sao.ru

Shergin Vladimir Sergeevich - Senior Researcher of The Special Astrophysical Observatory, Russian Academy of Sciences, Nizhniy Arhiz, Kabardino-Balkaria Republic, Russian Federation. e-mail: vsher@sao.ru