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Geometry Database for the CBM Experiment

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The last improvements and updates of the Geometry Database (Geometry DB) for the CBM (Compressed Barionic Matter) experiment are described. The geometry DB is an information system that supports the CBM geometry. The main purpose of Geometry DB is to provide the storage of the CBM geometry, to supply the convenient tools for managing the geometry modules assembling various versions of the CBM setup as a combination of geometry modules and additional files. There has to be the functionality to support the various versions of the CBM setup. The ability of setup versions is added. The set of corresponding tools both the graphical user interface (GUI) and application programming interface (API) was implemented. The users are not always required the regular updates of the local CBMRoot from version control system to solve their tasks (such as simulation or reconstruction). The main goal of the new functionality is automatic selection of the setup version during the loading of the geometry which corresponds to the current user environment.

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