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The Belle II Conditions Database

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The Belle II experiment, a next-generation B factory experiment at the KEK laboratory, Tsukuba, Japan, is expected to collect an experimental data sample fifty times larger than its predecessor, the Belle experiment. The data taking and processing rates are expected to be at least one order of magnitude larger as well.

In order to cope with these large data processing rates and huge data samples, the Conditions Database, which stores the time-dependent calibrations, have to be designed carefully for successful and efficient data processing and analysis by the worldwide Belle II Collaboration. The database system needs to offer fast response, has to enable storing experimental information with fine spatial and time granularity, and ensure the scalability and redundancy for robust operation.

The Conditions Database design and implementation details, together with future plans, will be presented in this talk.

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