Experiment Management System for the SND Detector

The first stage: database interaction. Konstantin Pugachev (supervised by Alexander Korol), BINP, Russia.

Highlights

- A new experiment management system of SND detector is being made. It allows one to interact with the detector using web-interface.

- It is implemented using Node.js.

- A template engine is designed. It provides lifting functions and values into template model with homogeneity of synchronous and asynchronous code.

- A micro-framework is build over template engine. It proposes a three-layer logical model for responsibility distinction

- Experiment configuration objects are stored in RDB and match hierarchical table model. An automatic hierarchical objects editor is implemented.