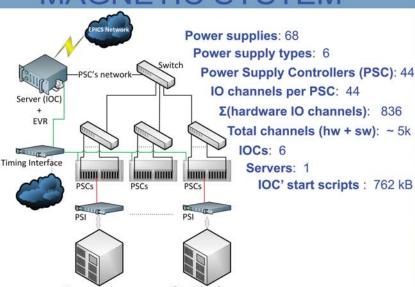
CONFIGURATION SYSTEM OF THE NSLS-II BOOSTER CONTROL SYSTEM ELECTRONICS



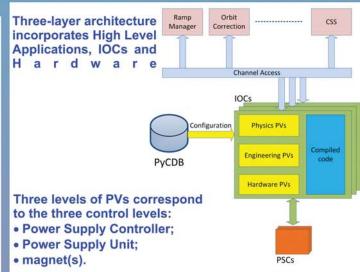
P. Cheblakov, D. Bolkhovitvanov, S. Karnaev, A. Vladimirovich Makeev, BINP, Russia

Configuration information for any control systems comprises a large amount of data with non-trivial relations and dependencies...

MAGNETIC SYSTEM



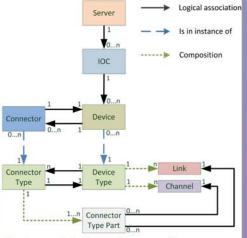
MAGNETIC SYSTEM SOFTWARE ARCHITECTURE



Creation and support of such amount of information is problematic without some means of automation.

PyCDB is a specialized tool, enabling centralized creation, editing and automated export to local storages information required for control system configuration.

DATA MODEL



Data model allows to describe a structure of whole configuration information in the unified form by defining:

- · entities with attributes;
- · links between them;
- · types of links;
- · directions;
- · multiplicity.

PyCDB use significantly decreases control system maintenance costs and minimizes human factor-related problems.

CONFIGURATION INFORMATION GRAPH

