

Rapidly Installable High Performance Control System Facilitates BESSY II Commissioning*,
R. BAKKER, J. BERGL, T. BIRKE, B. KUNER,
B. KUSKE, R. LANGE, B. MARTIN, I. MUELLER,
R. MUELLER, G. PFEIFFER, J. RAHN,
H. RUEDIGER, BESSY - The BESSY II control system takes advantage of the mature stage of the EPICS toolkit and its contributed generic applications. Development activities have been focussed on: (1) Dominant role is given to device control IO based on distributed local intelligence of embedded controllers and CAN fieldbus networks. (2) Cooperative development of adaptable physics applications is supported by the granularity of the programming environment. Toolkits with well designed interfaces handle GUI, modelling etc. (3) ORACLE RDBMS and automatic generation procedures guarantee consistency of configurations for real time data bases, programs etc. The resulting control system combines convincing installation speed, performance and functionality with simplicity, reliability and transparency offering help on all levels of the BESSY II commissioning process.

* Funded by the Bundesministerium fuer Bildung, Wissenschaft, Forschung und Technologie and by the Land Berlin