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Dependability Studies Towards Optimized Accelerator Performance

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Dependability studies are of fundamental importance for the performance of particle accelerators. The possibility of influencing such performance is nevertheless significantly higher (and more cost-effective) if studies are carried out in the early stages of a project, at the beginning and throughout the design phase. Developing dependability models to predict the evolution of key performance indicators as a function of system parameters (failure rates, repair times) can give hints towards an optimised approach for accelerator design. This contribution discusses a general approach to dependability studies for particle accelerators with examples from the CERN experience.

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