

Failure statistics and availability improvement of kicker systems at DESY

Monday 24 April 2023 15:00 (30 minutes)

In the various circular and linear accelerators at DESY and European XFEL a total number of ca. 100 kicker systems is being operated.

In recent years, a failure monitoring has been introduced for these systems to systematically study reasons for system failures and track down failure sources.

In this talk we will discuss the failure statistics collected up to now and review the kicker availability at DESY. We will also comment on our experience with radiation-induced failures of commercial semiconductor switches and how this could be mitigated.

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Session Classification: Afternoon session