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A key quality attribute of a Future Circular Collider: availability performance (RAMS)

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Abstract title

Reliability and availability become key indicators for the performance of accelerators when integrated luminosity cannot be increased by higher peak luminosity. Grossly scaling downtime from equipment faults seen on CERN's Large Hadron Collider to FCC by a factor four suggests that the FCC could do no physics at all. A study is started to assess if methods and tools successfully used to improve reliability and availability in large industrial and governmental projects could be applied to accelerator projects. A collaboration with the Tampere University of Technology who has already made reliability studies for oil rigs, nuclear waste management and military systems will help assess the applicability by modelling an existing accelerator and validating the model with physics data.

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