

# Operation Reliability of J-PARC Main Ring

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The Japan Proton Accelerator Research Complex (J-PARC) is a multipurpose research facility with high intensity proton beams located in Tokai village. The main ring provides 30 GeV proton beams to the neutrino experiment (T2K) with fast beam extraction using kicker magnets and hadron experiments with slow beam extraction on the third order resonance. The main ring started the physics run from 2009 with very low beam power, and today the high beam power beyond 300kW has been achieved. We summarize the reliability of main ring operation from 2010 with some major topics, and recent observation of stability with high beam power in this report.

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