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OR18 - View points of beam commissioning of J-PARC Main Ring for safe and reliable operation

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“In the J-PARC Main Ring (MR), beam commissioning has been carried out to increase the beam power to achieve 1.3 MW by JFY2028. For this purpose, it is essential to make safe and reliable judgments on the beam and equipment environments. The MR-status-monitoring-system (CSS-based) has been developed and established, based on the criteria to find the MR status for beam tuning and stabilizing user operation, and on the countermeasures to experiences of various beam troubles.

In this presentation, we will discuss the following 3 topics: (1) The points of interest in the accelerator environment during MR beam tuning and utilization operation, (2) The overlooked experiences in various troubles and their countermeasures, and (3) the actual operation of the MR-status-monitoring-system and the issues to be addressed in the future.

We expect that this presentation provides good view points to improve acclerator performances more safely and reliably.”

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Session Classification: Involving Operators in Accelerator Physics and Commissioning