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PO14 - Timestamp synchronization of beam diagnosis system

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At the large accelerator, hundreds of diagnostic systems are installed along the long beamline. And sometimes, we unify the information from the diagnostic systems which are installed separately, and understand the beam condition or anomaly. For this purpose, the synchronization of the timestamp of the individual diagnostic system works effectively to link the necessary information. The accelerator timing system, such as Event Timing System or White Rabbit, provides the common timestamp to the all hardware which belongs to its optical network. Therefore, the recorded data of the individual diagnostic systems can be linked and analyzed together in the offline analysis by using the attached common timestamp. The application examples of the timestamp synchronization at SuperKEKB are introduced in this presentation.

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