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A New Control Room for the KOMAC Linac and Multi-beam Lines

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A 100-MeV proton linac at the KOMAC (Korea Multipurpose Accelerator Complex) is composed of a 50-keV microwave ion source, a 3-MeV four-vane-type RFQ, a 100-MeV DTL and 10 target stations for proton irradiation on samples from many application fields. The linac was commissioned in 2013 and the user service started in July 2013 with delivering proton beam to three target stations: one for a 20-MeV beam and the other for a 100-MeV beam.

The existing control room for the linac and beam lines has been upgraded in various ways over the last 5 years, but there was a lot of interference because accelerator operators and data analysts use the same computer screen and keyboard in one space. The new control room was designed to eliminate congestion caused by accelerator operators for beam service and analysts for machine study. We named the new control room Machine Study Room (MSR). This spatial separation has provided increased flexibility within the control room to accommodate operators, physicists, and specialists. In this paper, we describe the history, concept, and status of this project.

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