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R2E challenges of LHC beam dumping generators and high sensitivity HEH monitor development

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The LHC beam dumping system has critical importance for LHC safety. High Voltage (HV) semiconductors used in extraction and dilution generators operates at up to 28 kV and are potentially exposed to high-energy hadrons leaking from the tunnel. Mitigation measures aiming reduction of the R2E failure rate to the required level are described.

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