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SP8: Fast interlock procedures for NRF cavities

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Normal coducting cavities in particular standing wave structures like a RF gun are sensitive at cross-sections like an RF window. Failure events like a field breakdown can cause severe damage of those devices. A mechanism which allows to stop the RF source as fast as possible is capable to significatly reduce the possibility of broken devices. By monitoring and fast processing on RF based measurements in FPGAs, the reaction time can be reduced to a few microseconds.First experiences of this fast iterlock mechanism at FLASH and the XFEL injector are presented.

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