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### Fast kickers (tune and aperture)

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The hardware parameters and the assumed operational scenarios of the LHC tune and aperture kicker systems are presented. From this the potential damage caused by the two systems is deduced. It is shown that especially the aperture kicker can lead to significant damage tot the LHC and an adequate interlock system is required. The proposed combined hardware and software solution, which has to guarantee a safe operation of the two systems, is presented.

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