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Experimental demonstration of crab cavities for LHC

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The high luminosity LHC (HL-LHC) will use transverse deflecting superconducting cavities (aka crab cavities) to achieve head-on collisions at the interaction points (IP1 and IP5). Crab cavities will recover the geometric luminosity loss due to the finite crossing angle at the IPs without which the peak luminosity loss can be up to 70 %. The development of the superconducting crab cavities which were tested for the first time with proton beam in the Super Proton Synchrotron (SPS) is discussed. The main highlights from the beams tests are outlined.

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