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Bringing the first LHC beams into collision at all 4 IP's

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Collision rate monitors are essential in bringing particle beams into collision and optimizing the performances of a collider. In the case of LHC the relative luminosity will be monitored by measuring the flux of small angle neutral particles produced in the collisions. The LHC rate monitors (BRAN) are being developed by Berkeley National Laboratory (USA) in the framework of the LARP collaboration and consist of a fast ionization chamber that will be installed on both sides of each IP and at about 140m from it. The monitors aim at measuring the relative luminosity of LHC bunch by bunch with a few percent resolution.

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