

Optics Solutions for the Combined Experimental and Injection Regions in the LHC, O. BRUNING, CERN - The geometrical acceptance in the interaction regions of the LHC must be large enough to accommodate both beams in the common part of the ring with a beam separation of 10σ at injection. In addition, the acceptance of the combined experimental and injection insertions at IP2 and IP8 is further restricted by the injection kicker and septum. The following paper summarises the resulting constraints and presents optics solutions for these two interaction regions.