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Chasing parasitic magnetic fields in the LHC

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A tentative summary of the parasitic fields in the LHC machine is presented. The impact on the beam is evaluated. Critical cases, such as the one of the connection cryostat, are reviewed and the solutions to avoid deleterious effects on the beam dynamics are outlined. A first pass at computing in 3D the field created by the busbars in the dipole-to-dipole interconnect is discussed.

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