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HE-LHC with flat beams

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The HE-LHC final focus triplet must be designed for a potential flat beam operation. Flat beams can partially mitigate the effect of the crossing angle on the luminosity. This solution is interesting if the crossing angle can't be compensated by other means, as for example, by crab-waist rotation. The flat beam parameter choice is explained here, and its luminosity evolution is compared with that of the nominal round optics. The energy deposition in the final triplet is also compared for both cases.

Primary author: ABELLEIRA, Jose

Co-author: VAN RIESEN-HAUPT, Leon

Presenter: ABELLEIRA, Jose

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