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Challenges for the IR BPMs

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The FCC-ee beam position monitors (BPM) is a non-invasive beam diagnostics system which consists out of ˜2000 BPM pickups in each of the two main rings, plus read-out electronics and infrastructure. While most BPM pickups are located in the arcs, rigidly fixed at the quadrupole magnets, 3+3 BPMs are located in each of the interaction regions (IR) with particular challenging real-estate, integration and alignment constraints. This contribution tries to highlight those points for further discussion and R&D, however, will also give a brief overview on the overall FCC-ee BPM system.

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