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FCC-ee: Vacuum System Technologies R&D

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The Vacuum Group at CERN are undertaking various studies for FCC-ee R&D. One avenue of work is focused on the vacuum chamber (beam screen) and its associated components. The designs for the interconnections between the beam screens have been completed and are now undergoing intensive impedance simulation for beam stability checks. The enormous scale of FCC-ee poses a significant challenge in terms of cost scalability, as such, innovative approaches to the design are necessary. We are studying how to implement additive manufacturing processes, not only for cost optimisation, but to meet the rigorous requirements of FCC-ee.

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