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Update on the FCC-ee vacuum system development

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The vacuum system requirements for the FCC-ee arcs will be presented, highlighting key challenges and expected performance. An update of the design of the vacuum chambers and overall vacuum layout for both the collider and the booster will be described. Innovative approaches under consideration include additive manufacturing techniques (such as 3D printing and thermal spray), friction stir welding, advanced bake-out systems, and the use of shape memory alloy connectors.

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