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Engineering developments toward seamless substrates

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The study and optimisation of manufacturing processes for copper substrates of Nb-coated cavities is a subject of renewed interest, due to the challenging demands on SRF performance for the Future Circular Collider (FCC).

This contribution will highlight related activities, currently being performed at CERN, namely on the R&D and optimization of welding processes, and on the production of seamless cavities; the latter with a focus on simulation of fabrication processes and corresponding studies in terms of material and failure characterization.

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