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A Microwave Test Bench for the Electromagnetic Characterization of Elettra 2.0 Diagnostics and Vacuum Chamber Components

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Thanks to recent evolutions of electromagnetic computer-aided engineering tools, nowadays the simulation of complex particle accelerator components is feasible by commercial software packages. A practical limitation of these tools is strictly related to the solver ability to discretize real devices' material and geometry into a numerical model, which, in some particular situations, could lead to ambiguous results. To address this issue, this paper presents the realization of a microwave test bench for the electromagnetic characterization of the prototypes of some components and devices designed for Elettra 2.0, which is exploited to experimentally check the results provided by the simulation platforms.

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Footnotes

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Yes

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