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The Air Microwave Yield (AMY) experiment to measure the GHz emission from air shower plasmas.

The aim of the AMY experiment is to measure and characterize the GHz radiation emitted from an electron beam induced air plasma. The final purpose is to investigate the new microwave detection technique for Ultra-High Energy Cosmic Rays. We present the results of a first test performed at the Beam Test Facility (BTF) of Frascati INFN National Laboratories. The measurements have been performed with 510 MeV electron beam in a wide frequency range between 1 and 20 GHz.

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