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The Microwave Air Yield Beam Experiment (MAYBE): measurement of GHz radiation for Ultra-High Energy Cosmic Rays detection CHRISTOPHER WILLIAMS, University of Chicago, MARTINA BOHACOVA, Institute of Physics, Academy of Sciences of the Czech Republic, Prague, Czech Republic, CARLA BONIFAZI, Universidade Federal do Rio de Janeiro, Instituto de Fisica, Rio de Janeiro, Brazil, GABRIELLA CATALDI, Dipartimento di Fisica dell'Universita' del Salento and Sezione INFN, Lecce, Italy, SERGEY CHEMERISOV, Argonne National Laboratory, Argonne, JOAO DE MELLO NETO, Universidade Federal do Rio de Janeiro, Instituto de Fisica, Rio de Janeiro, Brazil, PEDRO FACAL SAN LUIS, University of Chicago, BRENDAN FOX, PETER W. GORHAM, University of Hawaii at Manoa, CARLOS HOJVAT, Fermilab, Batavia, IL, USA, NICK HOLLON, University of Chicago, RISHI MEYHANDAN, University of Hawaii at Manoa, LUIS REYES, BENJAMIN ROUILLE D'ORFEUIL, University of Chicago, EDIVALDO M. SANTOS, Universidade Federal do Rio de Janeiro, Instituto de Fisica, Rio de Janeiro, Brazil, JAMES POCHEZ, PAOLO PRIVITERA, University of Chicago, HAL SPINKA, Argonne National Laboratory, Argonne, VALERIO VERZI, Universita' di Roma II "Tor Vergata" and Sezione INFN, Roma, Italy, MARIA MONASOR, JING ZHOU, University of Chicago, MAYBE COLLABORATION — We present measurements of microwave emission from an electron beam induced air plasma, performed at the electron Van de Graaff facility of the Argonne National Laboratory. Radio emission is studied over a wide range of frequencies between 1 and 15 GHz. This measurement provides further insight on microwave emission from extensive air showers as a novel detection technique for Ultra-High Energy Cosmic Rays.

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