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Development of a new photorefractive and photovoltaic potassium niobate crystal D.R. EVANS, G. COOK, J.L. GIBSON, M.A. SALEH, Air Force Research Laboratory, S.A. BASUN, A. F. Ioffe Physico-Technical Institute, J.M. SEIM , G.J. MIZELL, VLOC, AIR FORCE RESEARCH LABORATORY TEAM, A. F. IOFFE PHYSICO-TECHNICAL INSTITUTE TEAM, VLOC TEAM
— Photovoltaic measurements have been made on a new doped potassium niobate crystal that yields significantly larger photovoltaic fields than other doped potassium niobate crystals. Contra-directional two-beam coupling efficiencies and Raman spectroscopy measurements have also been conducted, which show major differences with respect to the published results for other doped potassium niobate materials.

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