

3D Simulation Of Quasi-Optical Output Systems For MW-Gyrotrons

H. O. Prinz^{1,2}, A. Arnold^{1,2}, J. Flamm^{1,2}, M. Thumm^{1,2}

¹ Forschungszentrum Karlsruhe, Association EURATOM-FZK,
Institut für Hochleistungsimpuls- und Mikrowellentechnik (IHM),
address: Postfach 3640, D-76021 Karlsruhe, Germany; e-mail: Oliver.Prinz@ihm.fzk.de

² Universität Karlsruhe (TH), Institut für Höchstfrequenztechnik und Elektronik (IHE),
address: Kaiserstr. 12, D-76128 Karlsruhe, Germany

Abstract— Calculations for quasi-optical systems were based on physical optics up to now. The launcher was separately simulated using maxwell's integral equations. We will show recent results of modelling the launcher and the mirror system as a hole and calculating the output pattern in a defined plane.