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Abstract: :The use of millimeter and sub-millimeter wave antenna systems for the studies of space is of great significance to astronomy. This paper presents the application of Diffracted Gaussian Beam Analysis method (DGBA) in Terahertz. And a three dimensional visual software based on DGBA is used for the simulation of a single-channel quasi-optical system at $325GHz$. The simulation results and comparison analysis between Simatrix and GRASP, which proves the accuracy of DGBA and the simulation by Simatrix in Terahertz are also presented.

Keywords: Terahertz, DGBA, Quasi-optical system.