

The IASA Racetrack Microtron Facility: A Progress Report, M. BARBAROSOU, S. COHEN, D. ECONOMOU, T.A. FILIPPAS, E.N. GAZIS, N. GIOKARIS, A. KARABARBOUNIS, D. MAROULIS, N.H. PAPADAKIS, C.N. PAPANICOLAS, N. PATAVALIS, P. PHINOUE, H. RAHMANI, E. STILIARIS, N. UZUNOGLOU, N. VODINAS, IASA; H. HERMINGHAUS, MAINZ; A. ZOLFAGARI, MIT-BATES - The Institute of Accelerating Systems and Applications (IASA) is pursuing research and facilitates postgraduate studies in traditional and cross-disciplinary areas where accelerators play an important role. A design of a 241 MeV two-stage CW cascade racetrack microtron (RTM) has been completed. Both the optical design and the construction plans for the RTM have been reviewed and met the approval of an international committee of experts. The 100 keV line (the first part of the RTM injector) has been installed and is under operation. At present a diagnostic line for measuring the transverse emittance is under construction. The design of the RTM, the construction plans as well as the first measurements of the injector performance will be presented.