

GANTRY Magnet Optic Scheme for Proton and Carbon Ion Beams, M.M. KATS, ITEP, Moscow, Russia - GANTRY magnet optic schemes are proposed for transportation of proton and ion beams with the phase volume characteristic for slow extraction from a synchrotron. For active scanning of the target surface fast beam movement in one direction in the bending plane is proposed. After the irradiation in full depth the procedure table with the patient is moved slowly in the second direction and procedure is repeated. In addition to usual requirements (focusing in the spot with the necessary size and suppression of dispersion) the system provides small beam size in all magnets thus minimizing rotated equipment weight and power consumption.