



# University of Maryland Electron Ring

## TECHNICAL NOTES - LISTING FOR 2004

NUMBER	TITLE	CODE
1	Resolution and Accuracy of Power Supplies and Current Monitors	UMER-011604-SBHLBQ
2	(Semi)Global Optimization Study for UMER Matching Section	UMER-011604-HL
3	Items Needed to Close the Ring	UMER-020604-BQ
4	Effect of Skew Quad (at PQ)	UMER-021104-HLSB
5	Modification to Longitudinal Focusing System in UMER	UMER-021304-JH
6	UMER Startup S.O.P	UMER-031804-JH
7	Magnet Summary	UMER-041604-SBTGGB
8	Current Relations of Panofsky Quad, Pulsed Dipole and Short Dipole in Y-Section	UMER-042104-SB
9	Bending Dipole Plus Earth's Field Calculations (MathCAD)	UMER-042704-SB
10	Gun Test (Cathode Activation)	UMER-051404-BQ
11	New Apertures for UMER Gun Aperture Wheel	UMER-052704-RK
12	Preliminary Pepperpot Test: 12 ring chambers + 1.5m approx. (80 mA beam)	UMER-071504-SBHL
13	Preliminary Pepperpot Test: 12 ring chambers + 1.5m approx. (80 mA beam, addtl. calculations)	UMER-080404-SBHL
14	Printed-Circuit Dipole and Quadrupole Design Summary	UMER-072804-TG
15	UMER Ring Closure	UMER-092304-MW
16	Triaxial Earth's Field Measurements	UMER-102804-BQ
17	Matching of 0.6 mA, 10 keV, 6 $\mu\text{m}$ , $\sigma_0=76^0$ beam with old DC injection geometry: Smooth lattice vs. hard-edge lattice	UMER-111004-SB
18	Calculation of Dispersion and Chromaticity for Zero-Current UMER Beams	UMER-111204-RAKSB
19	RMS Envelope Matching With New Y-Shape Injector-I: Hard Edge	UMER-112204-SBGB

**KEY:** **BQ:** B. Quinn, **GB:** G. Bai, **HL:** H. Li, **JH:** J. Harris, **RAK:** R.A. Kishek, **SB:** S. Bernal, **TG:** T.F. Godlove, **MW:** M. Walter