

Parameters, Field & Bore-Tube I.R. of Magnet “20to2T5m100cm”

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Table I: Parameters of Target Magnet “20to2T5m100cm”

SSt shell thk.	0.2071	0.2015	0.2099	0.1793	0.1837										
Cur. density	2.040	1.678	1.457	1.205	1.079	1.927	2.135	4.445	4.400	4.450	4.420	4.373	4.373	4.373	4.373
Radial depth	4.897	5.400	5.795	6.372	6.735	77.021	60.764	2.666	7.533	3.389	3.525	13.375	13.375	3.525	13.375
Axial gap							0.000	233.07	10.95	23.00	9.52	4.97	60.00	15.00	15.00
Upstr. end	-80.34	-80.34	-80.34	-80.34	-80.34	-215.8	153.84	460.13	658.14	705.64	879.11	955.00	1030.0	1060.0	1475.0
Coil length	160.44	160.44	160.44	160.44	160.44	369.61	73.21	187.06	24.51	163.94	70.93	15.00	15.00	400.00	15.00
Down. end	80.09	80.09	80.09	80.09	80.09	153.84	227.06	647.19	682.65	869.58	950.03	970.00	1045.0	1460.0	1490.0
Inner radius	16.00	21.10	26.71	32.71	39.26	120.0	120.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Outer radius	20.90	26.50	32.50	39.08	46.00	197.02	180.76	102.67	107.53	103.39	103.53	113.38	113.38	103.53	113.38

On-Axis Field Profiles of Target Magnet "20to2T5m100cm"

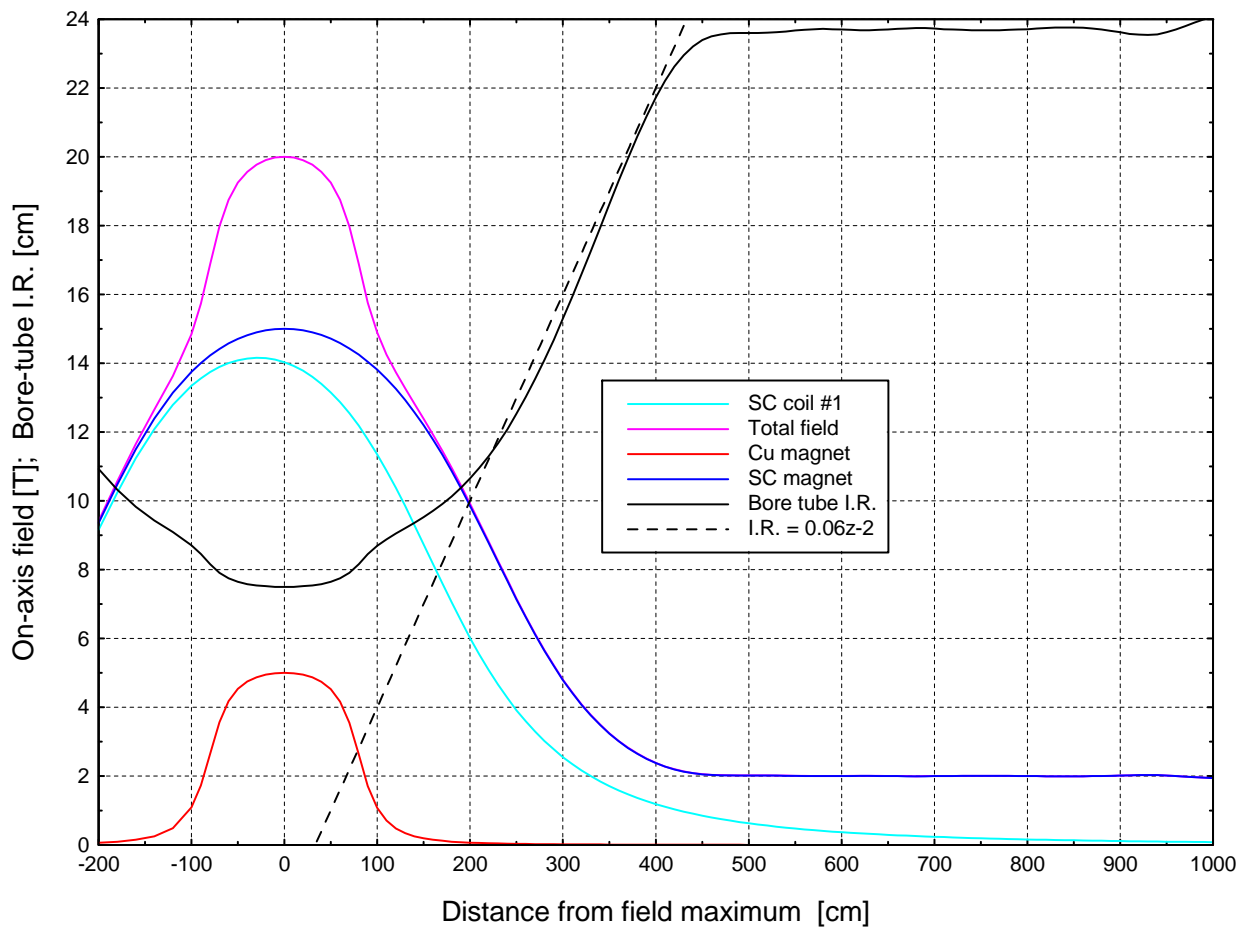


Fig. 1. On-axis field profile and bore-tube inner radius of Target Magnet “20to2T5m100cm”.

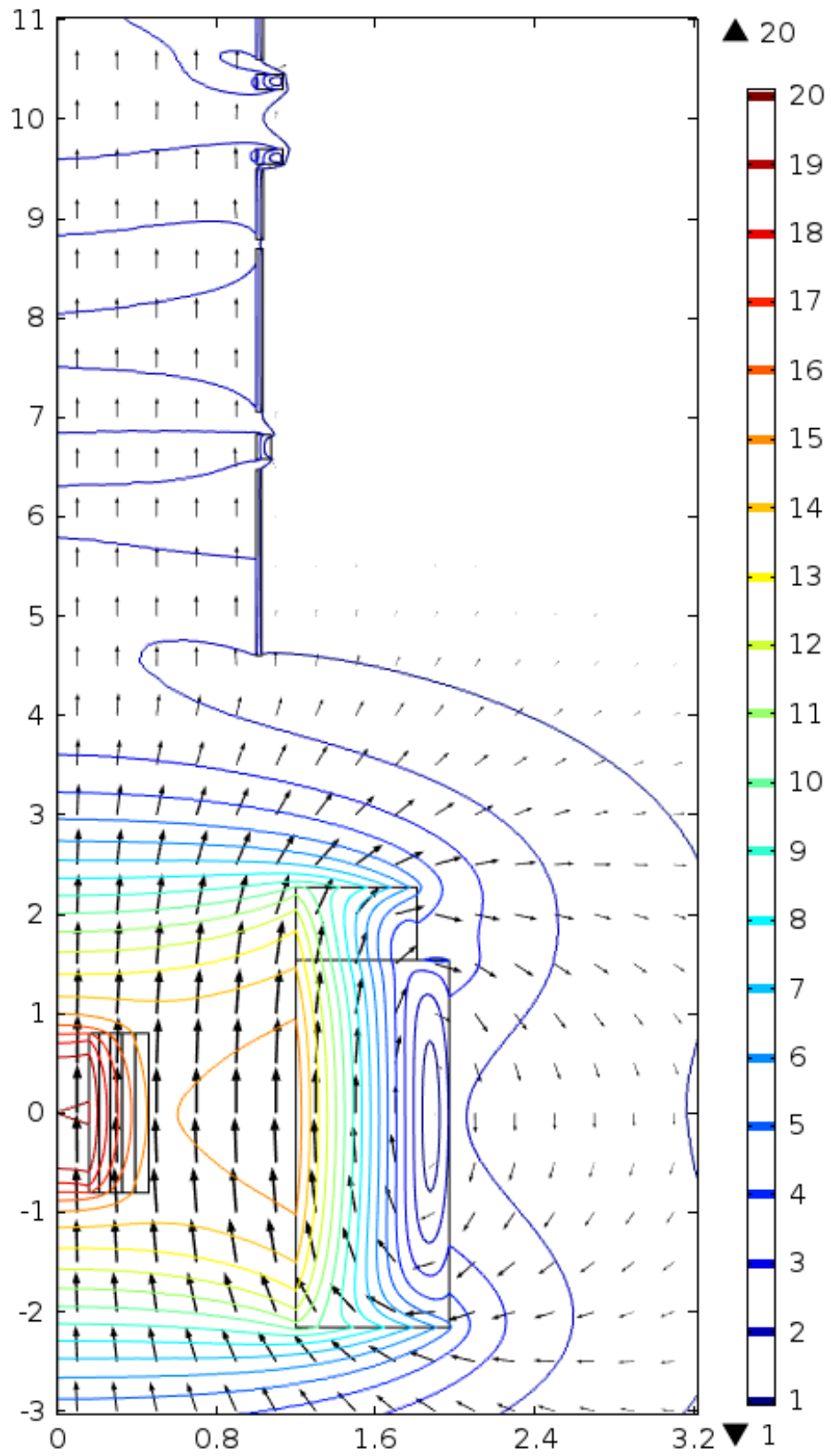


Fig. 2. Conductor cross sections, field direction (arrows) and magnitude (contours) of Target Magnet “20to2T5m100cm”.