

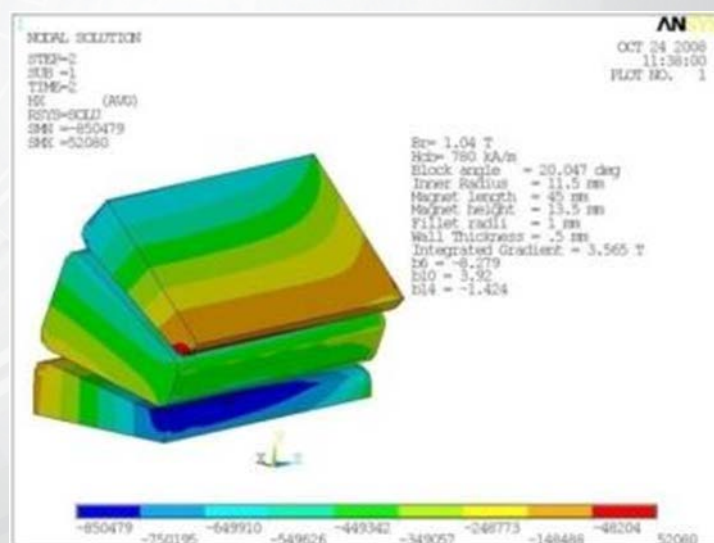
PMQ

PERMANENT MAGNET QUADRUPOLE



Permanent Quadrupole Magnets to be used as focusing elements in the drift tube of the Linac

This type of PMQs have been selected by LINAC4 project at CERN



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<i>CERN Specifications</i>	<i>Family 1</i>	<i>Family 2</i>
Integrated Gradient, Max	3,6 Tesla	4,0 Tesla
Integrated Gradient, Min	2,0 Tesla	2,0 Tesla
Length	45 mm	80 mm
Inner diameter	22 mm	22mm
Outer diameter before final machining	61 mm	61 mm
Final outer diameter	60 mm	60 mm
Gradient integral error (rms)	±0,5%	±0,5%
Magnetic versus geometric axis	<0,1 mm	<0,1 mm
Harmonic content at 7.5 mm radius: B_n/B_2 for $n=3,4,\dots$	<0.01	<0.01
Yaw/pitch/roll:	1 mrad	1 mrad



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