MDX05 resisitive dipole measurements with the Single Stretched Wire System

Field at the center of the gap

SSW measurements performed at 60A with a 20mm step.
SSW STDEV on 10 repetitions

B0= 0.5125 Lm= 0.4616

	Field					
NMR	[T]					
	Int. Field	**STDEV**		**Current**	**STDEV**	
SSW	**0.24098**	**[Tm]**	1.00E-04 **[Tm]**	60 **[A]**	2.00E-03 **[A]**	

J'ai mesuré avec la sonde NMR No 3 à I = 60A et j'ai trouvé au centre de l'aimant MDX05 un champ de 0.5125T.

Ensuite, j'ai démagnétisé l'aimant.

Paul

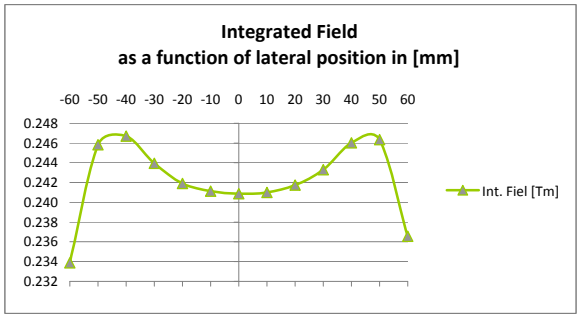
Integrated Field as a function of lateral displacement inside the aperture at nominal current

probe beam

Typical deviation on 3 repetitions = 7e-5[Tm]
I = 340 [A]
SSW step length = 10mm

Lateral distance from center [mm]	Integrated field [Tm]
-60	0.23388
-50	0.24584
-40	0.24669
-30	0.24394
-20	0.2419
-10	0.24112
0	0.24088
10	0.24101
20	0.24175
30	0.2433
40	0.24603
50	0.24636
60	0.23657

Non-homogeneity
0.012703



Magnetization curve

SSW step length = 20mm
Typical current deviation on 3 repetitions = 2e-3 [A]
Typical field deviation on 3 repetitions < 3e-5 [Tm]

Current [A]	Int. Field [Tm]
0	-1.00E-05
60	0.24095
100	0.39999
120	0.47735
140	0.54885
160	0.60394
180	0.64698
200	0.68362
220	0.71583
240	0.74329