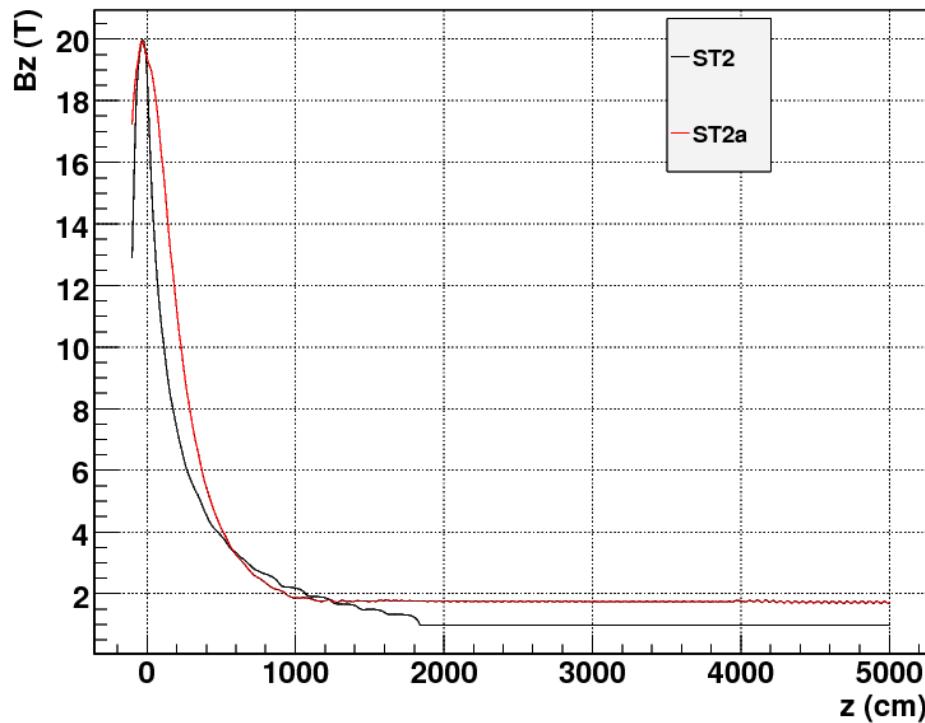


ST2 & ST2a field map

B field on axis from MARS



Field on axis:

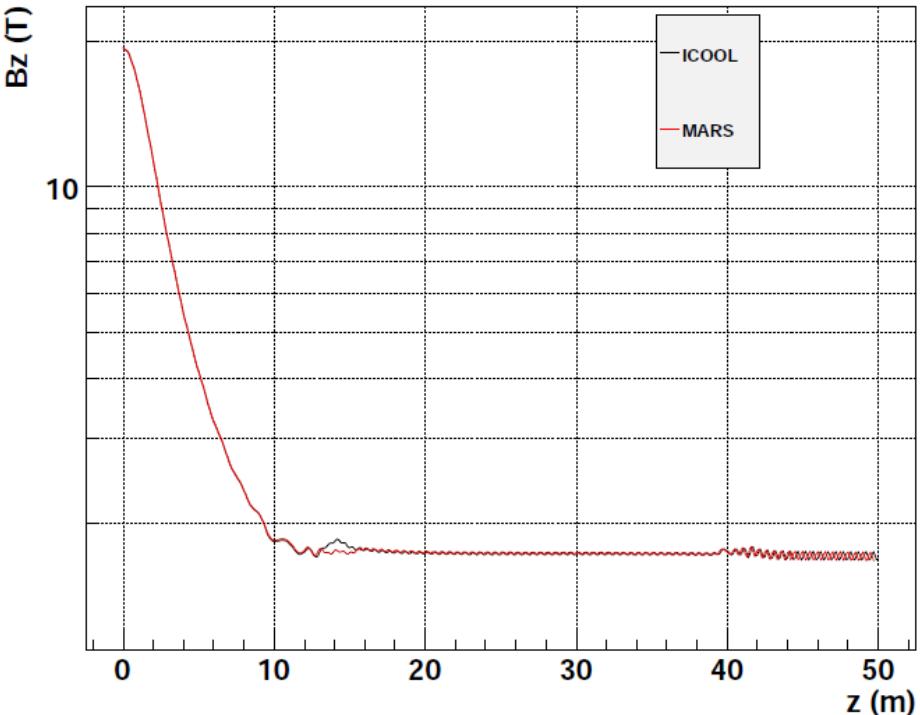
1.25 T/1.75 T for the taper

Higher B field for ST2a

July 22th 2009

**Field on axis in ICOOL:
small difference at 12 m**

B field on axis (ST2a)

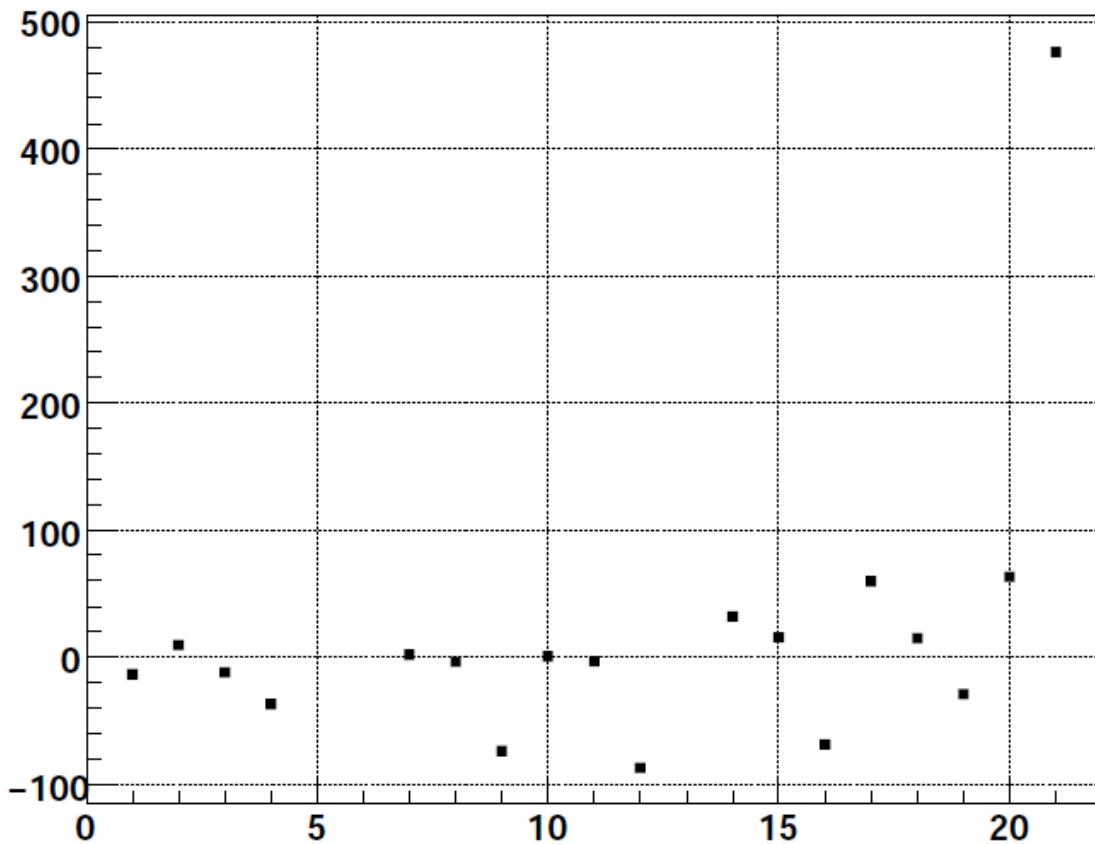


Particle production using ST2/ST2a

ST2a small increase of μ^+ and loss of μ^- except @ 14 GeV.

-> no big advantage in using ST2a over ST2.

$(N_{ST2a} - N_{ST2})/N_{ST2}$ (%) at $z = 50$ and $40 < E_{kin} < 180$ MeV – 8 GeV beam



PID	Typ	5 GeV	8 GeV	14 GeV
1	p	-7	-13	-24
2	n	9	6	22
3	π^+	-36	-12	19
4	π^-	30	-37	-31
5	K^+	-	-	-
6	K^-	-	-	-
7	μ^+	5	2	6
8	μ^-	-1	-3	3
10	e^-	0	0.5	-0.5
11	e^+	-6	-3	-2
12	\bar{p}	-	-	200
18	ν_μ	3	15	43
19	$\bar{\nu}_\mu$	-12	-29	28
20	ν_e	-	69	-80
21	$\bar{\nu}_e$	200	487	47