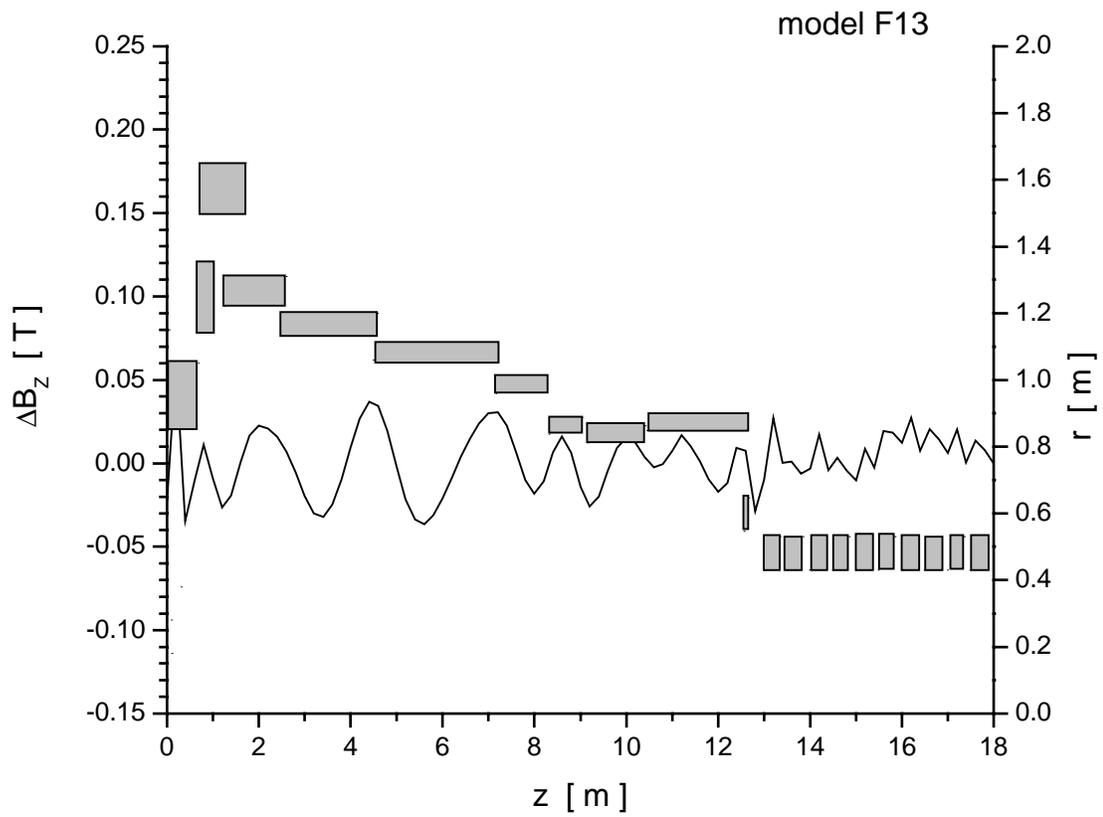


# Target and capture coil configurations

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## Target and capture coil designs

model	$\chi^2$	$\mu/p$ (decay)	$\epsilon_{TN}$ [mm]	$\epsilon_{LN}$ [mm]	$\mu/p$ (cool)	$\mu/p$ (30 mm)
F5	0.49	0.430	6.71	68	0.380	0.200
F8	0.08	0.434	6.81	72	0.380	0.189
F11	0.36	0.430	6.94	65	0.381	0.200
F13	0.04	0.429	7.13	67	0.373	0.185

### Notes

1. Quantities given after decay (110 m) and full cooling channel (315 m).

2. typical errors

$\mu/p$ (decay)	0.014
$\epsilon_{TN}$	0.13
$\epsilon_{LN}$	3
$\mu/p$ (cool)	0.005
$\mu/p$ (30 mm)	0.005

3. only includes particles in the band  $100 < p < 300$  MeV/c

4. Model F5 is modified version of a Bob Weggel design for FS2. It has coils near the target with radius 40 cm and many coils at radius 1.5 m. The decay coils have  $R= 32$  cm.

5. Model F8 is a new design with coils near the target moved out to 85 cm. The decay coils have  $R= 32$  cm.

6. Model F11 is similar to model F5 with decay channel coils with radius 43 cm.

7. Model F13 is similar to model F8 with decay channel coils with radius 43 cm.