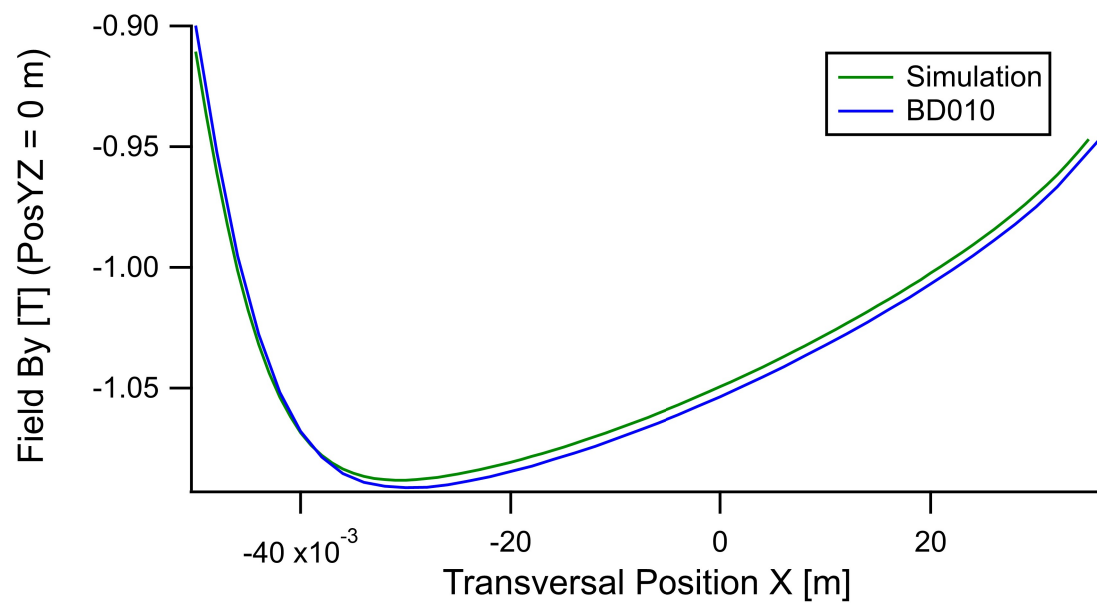
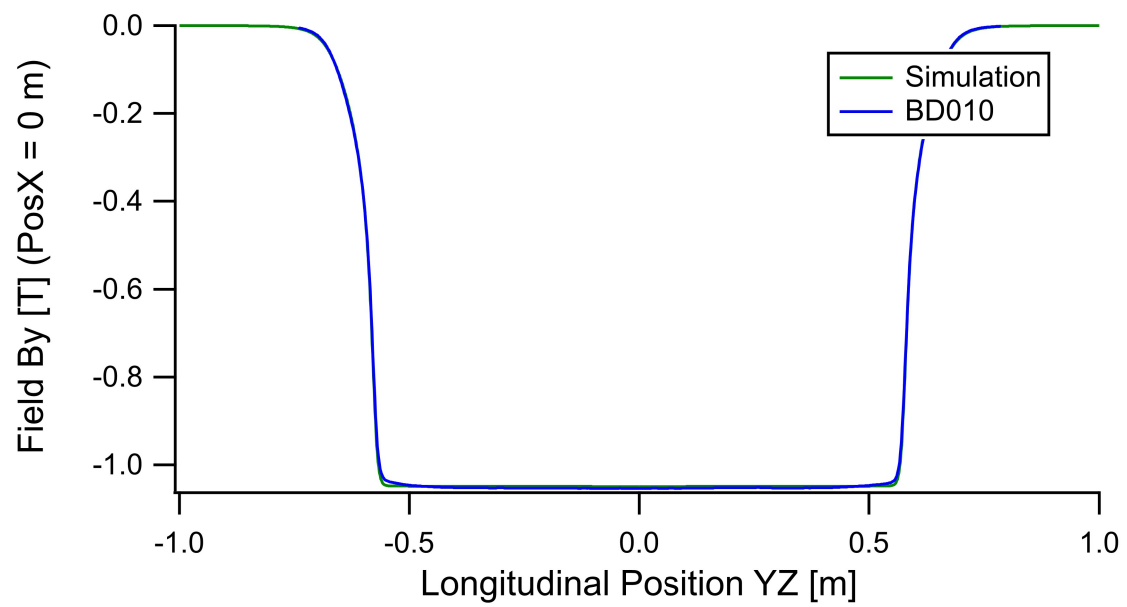


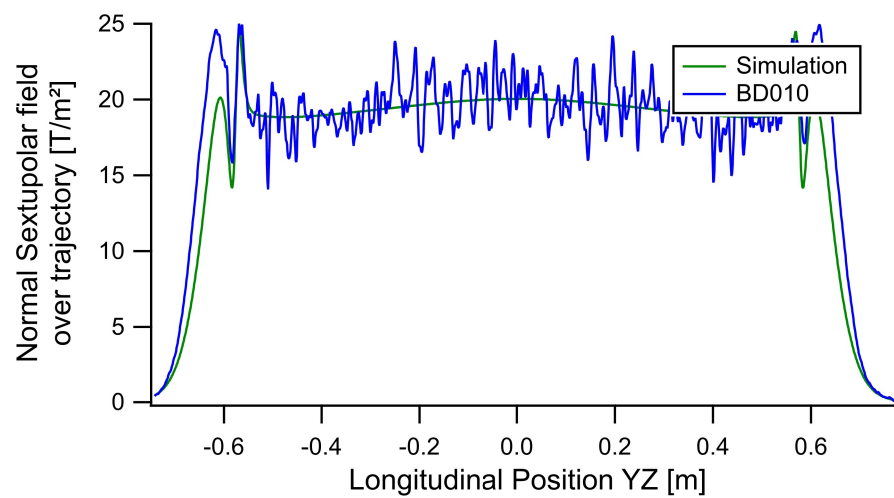
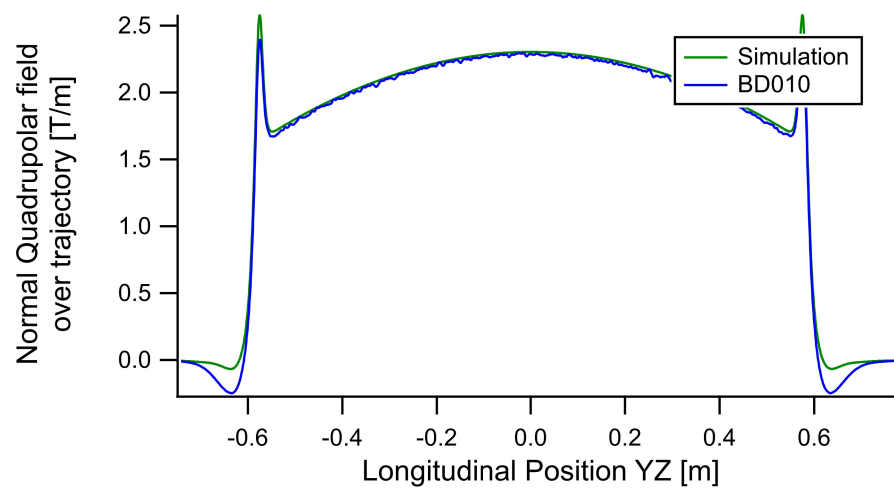
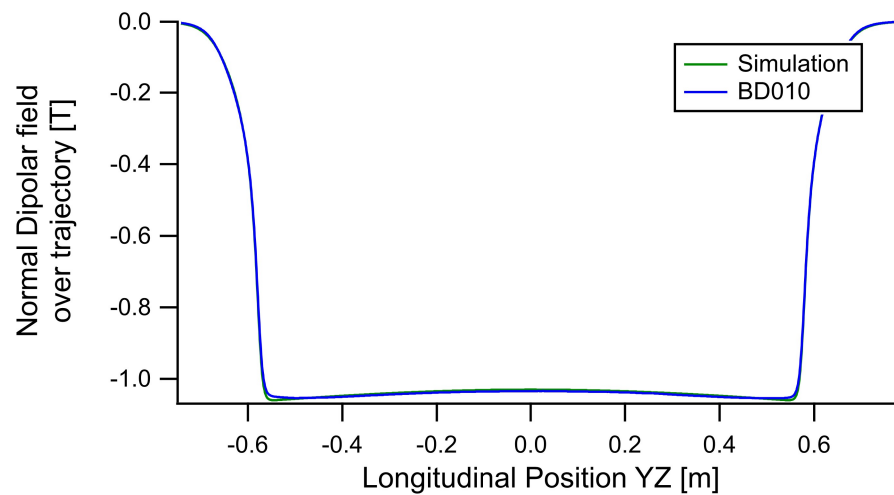
BD-010**Deflection Angle:**

Horizontal Deflection Angle [°] -7.201

Field Profile:

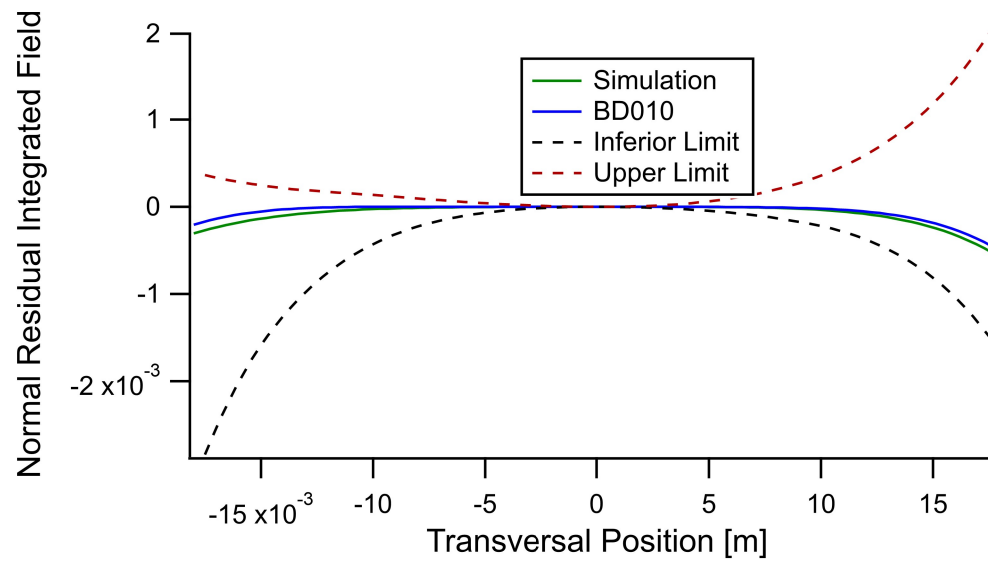
Integrated Normal Multipoles:

| n | Nominal [$\text{T.m}^{(1-n)}$] | BD010 [$\text{T.m}^{(1-n)}$] | Error [%] |
|---|----------------------------------|--------------------------------|-----------|
| 0 | -1.2575 | -1.2585 | 0.0821 |
| 1 | 2.4788 | 2.4212 | -2.3257 |
| 2 | 25.6277 | 26.7358 | 4.3240 |



Magnet Multipole Errors Specification @r = 17.5 mm:

| Multipole | Sys Normal | Sys Skew | Rnd Normal | Rnd Skew |
|-----------|------------|----------|------------|----------|
| B2/B0 | -- | -- | 5.5e-04 | 1.0e-04 |
| B3/B0 | 4.0e-04 | -- | 4.0e-04 | 1.0e-04 |
| B4/B0 | -3.6e-04 | -- | 4.0e-04 | 1.0e-04 |
| B5/B0 | 2.7e-04 | -- | 4.0e-04 | 1.0e-04 |
| B6/B0 | -1.3e-04 | -- | 4.0e-04 | 1.0e-04 |

Residual Field:

BD010:

Filename:

2017-03-08_BD-010_Model09_Hall_I=991.63A.dat

| | |
|--------------------|---------------------|
| fieldmap_name: | BD-010 |
| timestamp: | 2017-03-09_18-52-30 |
| nr_magnets: | 1 |
| magnet_name: | BD-010 |
| gap[mm]: | 28 |
| control_gap[mm]: | -- |
| magnet_length[mm]: | 1206 |
| current_main[A]: | 991.63 |
| NI_main[A.esp]: | 11899.56 |
| center_pos_z[mm]: | 0 |
| center_pos_x[mm]: | 0 |
| rotation[deg]: | 0 |

| | |
|------------------------|-----------------|
| Particle energy | 3 Gev |
| Trajectory step | 0.01 mm |
| Trajectory x @z=0mm | 9.0939 mm |
| Multipoles grid | [-18 mm, 18 mm] |
| R0 relative multipoles | 17.5 mm |

Simulation:

Filename:

2016-11-11_BD_Model09_Sim_X=-80_35mm_Z=-1000_1000mm_I=981.778A.txt

| | |
|--------------------|----------------------------|
| fieldmap_name: | Dipole_Booster_BD_Modelo09 |
| timestamp: | 2016-11-11_16-18-19 |
| nr_magnets: | 1 |
| magnet_name: | BD_Booster |
| gap[mm]: | 28 |
| control_gap: | -- |
| magnet_length[mm]: | 1206 |
| current_main[A]: | 981.778 |
| NI_main[A.esp]: | 11781.34 |
| center_pos_z[mm]: | 0 |
| center_pos_x[mm]: | 0 |
| rotation[deg]: | 0 |

| | |
|------------------------|-----------------|
| Particle energy | 3 Gev |
| Trajectory step | 0.01 mm |
| Trajectory x @z=0mm | 9.065 mm |
| Multipoles grid | [-18 mm, 18 mm] |
| R0 relative multipoles | 17.5 mm |

CAMTO Version : 13.0.1