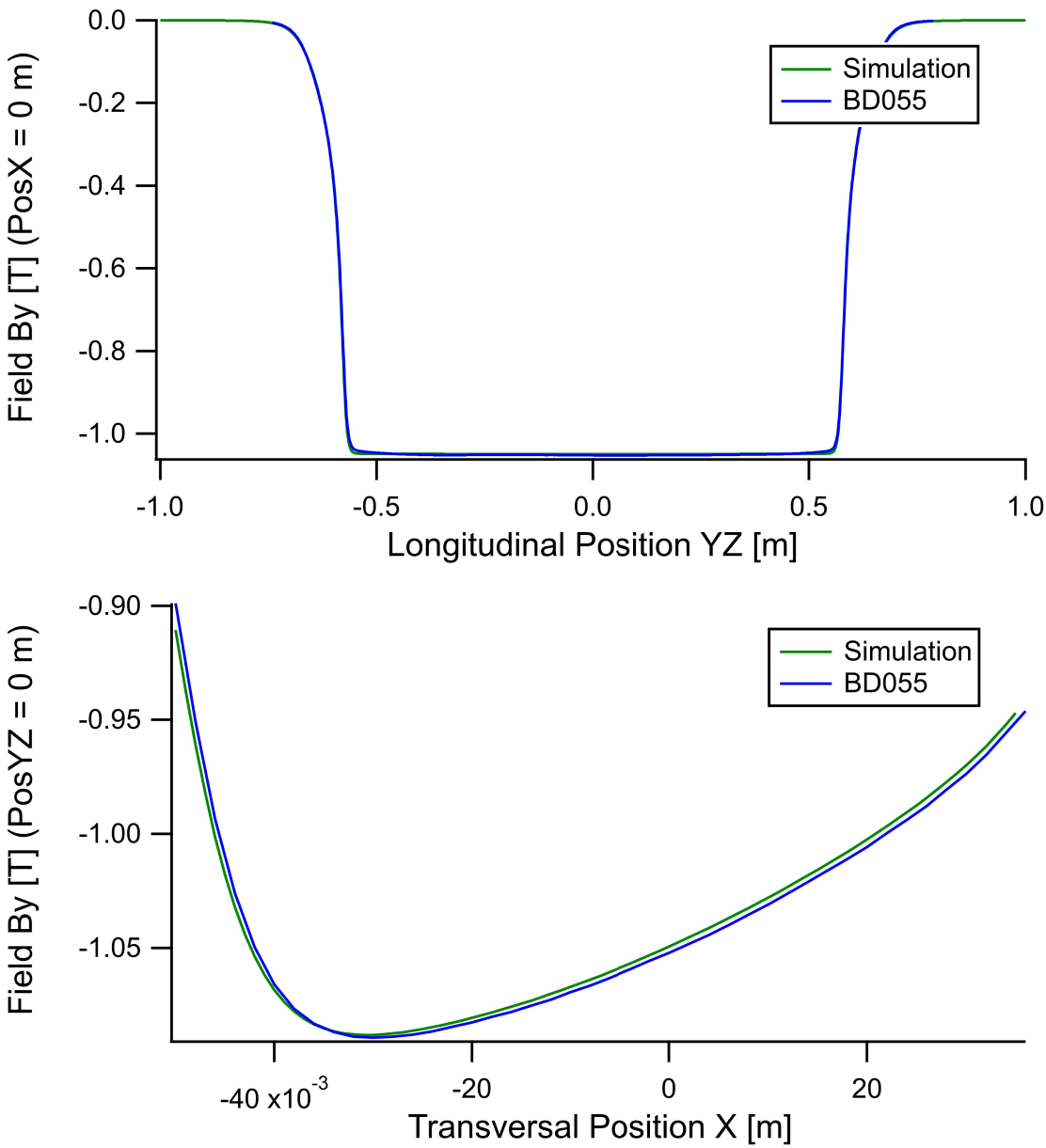


BD-055

Deflection Angle:

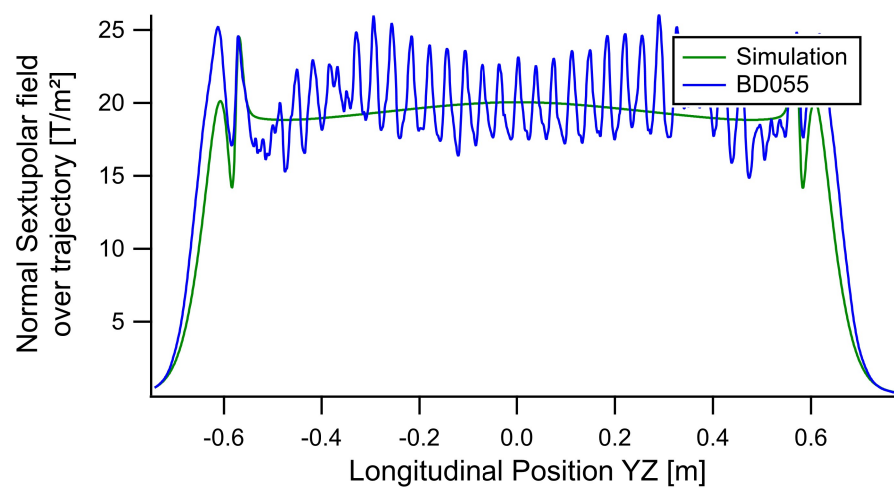
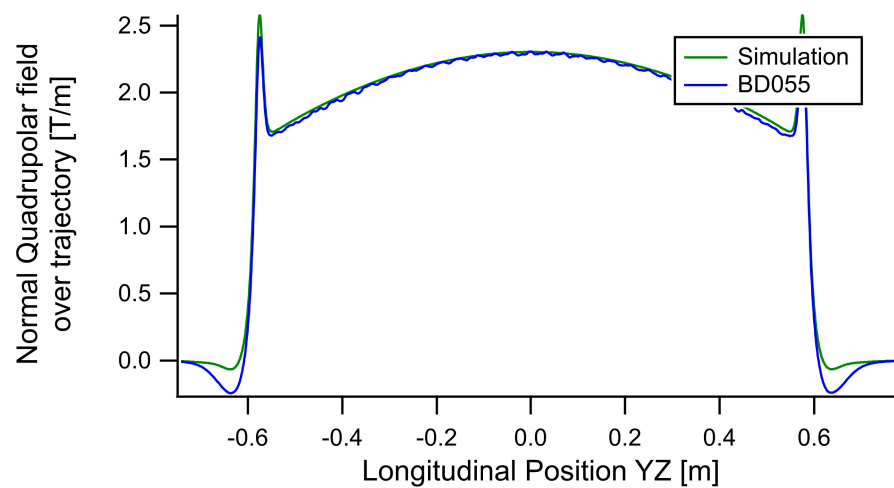
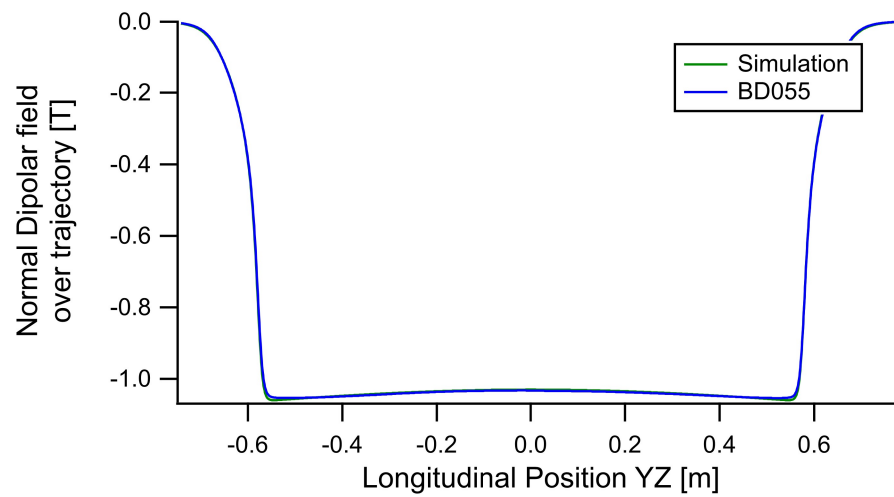
Horizontal Deflection Angle [°] -7.1942

Field Profile:



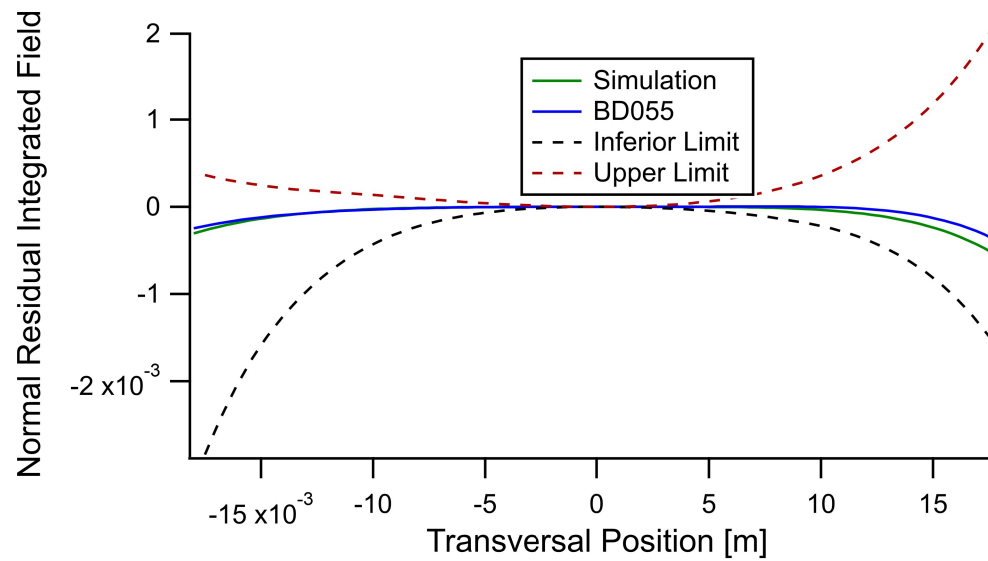
**Integrated Normal Multipoles:**

| n | Nominal [ $\text{T}\cdot\text{m}^{(1-n)}$ ] | BD055 [ $\text{T}\cdot\text{m}^{(1-n)}$ ] | Error [%] |
|---|---|---|-----------|
| 0 | -1.2575                                     | -1.2573                                   | -0.0128   |
| 1 | 2.4788                                      | 2.4210                                    | -2.3302   |
| 2 | 25.6277                                     | 27.1562                                   | 5.9641    |



**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:**

**BD055:**

Filename:

2017-04-19\_BD-055\_Model09\_Hall\_I=991.63A.dat

|                    |                     |
|--------------------|---------------------|
| fieldmap_name:     | BD-055              |
| timestamp:         | 2017-04-19_15-19-16 |
| nr_magnets:        | 1                   |
| magnet_name:       | BD-055              |
| gap[mm]:           | 28                  |
| control_gap:       | --                  |
| 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    | 9.1184 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