



BC-024

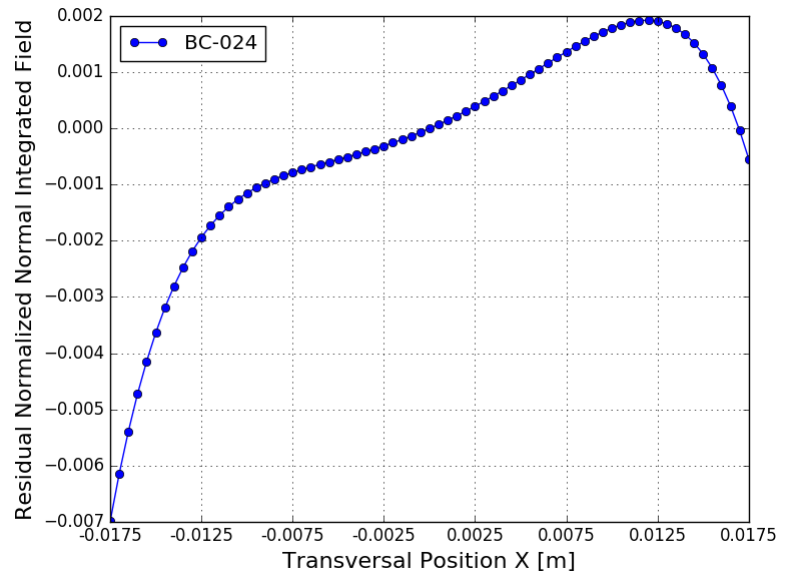
## BOOSTER MAGNET REPORT

### Results

|  |                                   |
|--|-----------------------------------|
| Date                                     | 19/03/2015                        |
| Hour                                     | 17:05:17                          |
| Temperature [°C]                         | --                                |
| Number of Measurements                   | 20                                |
| Main Coil Current [A]                    | $(9.980 \pm 0.006)$               |
| Trim Coil Current [A]                    | --                                |
| Integrated Field [T.m]                   | $(-3.3925 \pm 0.0004) \times E-3$ |
| Magnet Center Offset X [ $\mu\text{m}$ ] | --                                |
| Magnet Center Offset Y [ $\mu\text{m}$ ] | --                                |
| Roll [mrad]                              | $(-1.34 \pm 0.05)$                |

### Electric Parameters

|                           |        |
|---------------------------|--------|
| Indutance [mH]            | 3.163  |
| Voltage [V]               | 0.667  |
| Resistance [m $\Omega$ ]  | 74.084 |
| Main Coil Number of Turns | 38.5   |



| n              | Normalized Normal Multipoles<br>$x=17.5 \text{ mm}$<br>[T.m <sup>(2-n)</sup> ] | Normalized Skew Multipoles<br>$x=17.5 \text{ mm}$<br>[T.m <sup>(2-n)</sup> ] |
|----------------|--|--|
| 1 (dipole)     | $(1.0000 \pm 0.0001)$  | $(-1.34 \pm 0.02) \times E-3$  |
| 2 (quadrupole) | $(2.46 \pm 0.07) \times E-3$   | $(1.5 \pm 0.7) \times E-4$   |
| 3 (sextupole)  | $(2.13 \pm 0.07) \times E-3$   | $(2.3 \pm 0.6) \times E-4$   |
| 4              | $(1.2 \pm 0.5) \times E-4$   | $(1.0 \pm 0.7) \times E-4$   |
| 5              | $(-2.23 \pm 0.05) \times E-3$  | $(-3.5 \pm 0.7) \times E-4$  |
| 6              | $(7.2 \pm 0.5) \times E-4$   | $(2.5 \pm 0.4) \times E-4$   |
| 7              | $(-3.98 \pm 0.04) \times E-3$  | $(3.2 \pm 0.5) \times E-4$   |
| 8              | $(-2 \pm 5) \times E-5$  | $(5 \pm 7) \times E-5$   |
| 9              | $(-9 \pm 4) \times E-5$  | $(5.0 \pm 54.7) \times E-6$  |
| 10             | $(-2.2 \pm 0.5) \times E-4$  | $(4 \pm 8) \times E-5$   |
| 11             | $(4.4 \pm 0.5) \times E-4$   | $(5 \pm 6) \times E-5$   |
| 12             | $(10 \pm 5) \times E-5$  | $(3.7 \pm 49.3) \times E-6$  |
| 13             | $(-2 \pm 5) \times E-5$  | $(4 \pm 7) \times E-5$   |
| 14             | $(7 \pm 7) \times E-5$   | $(2 \pm 6) \times E-5$   |
| 15             | $(-2 \pm 4) \times E-5$  | $(-1 \pm 6) \times E-5$  |

