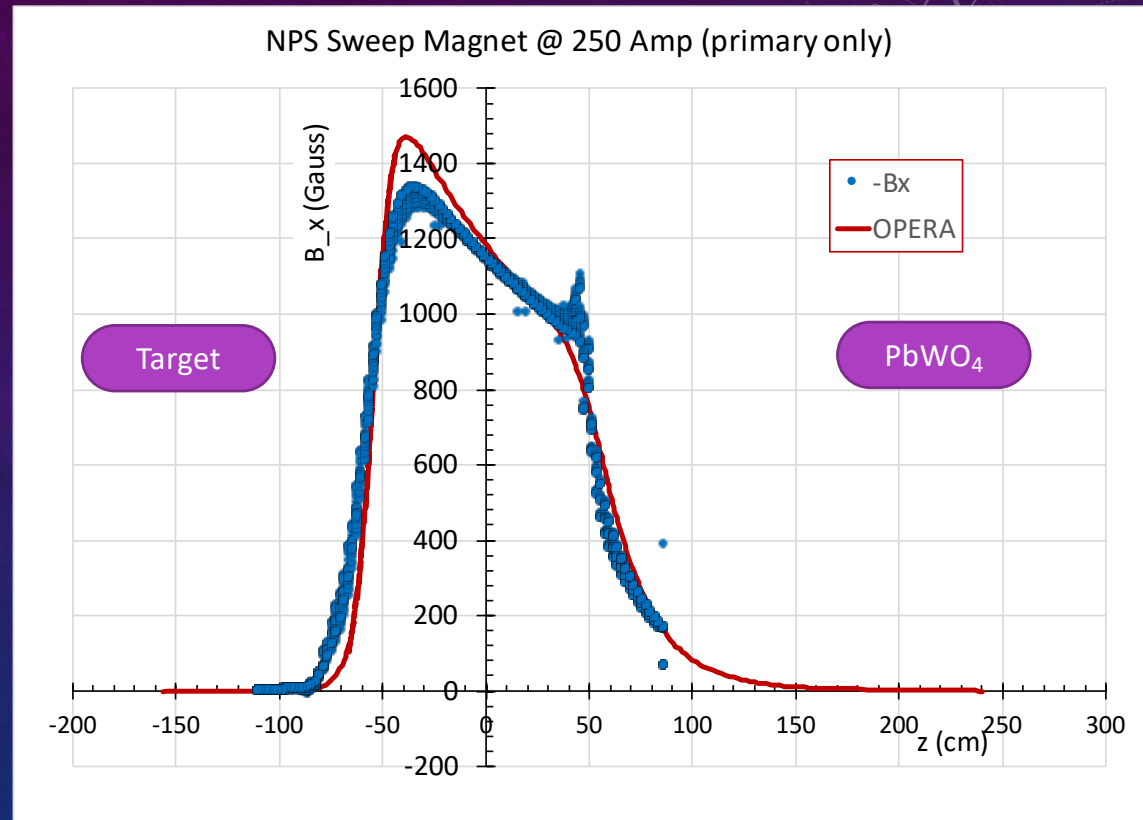
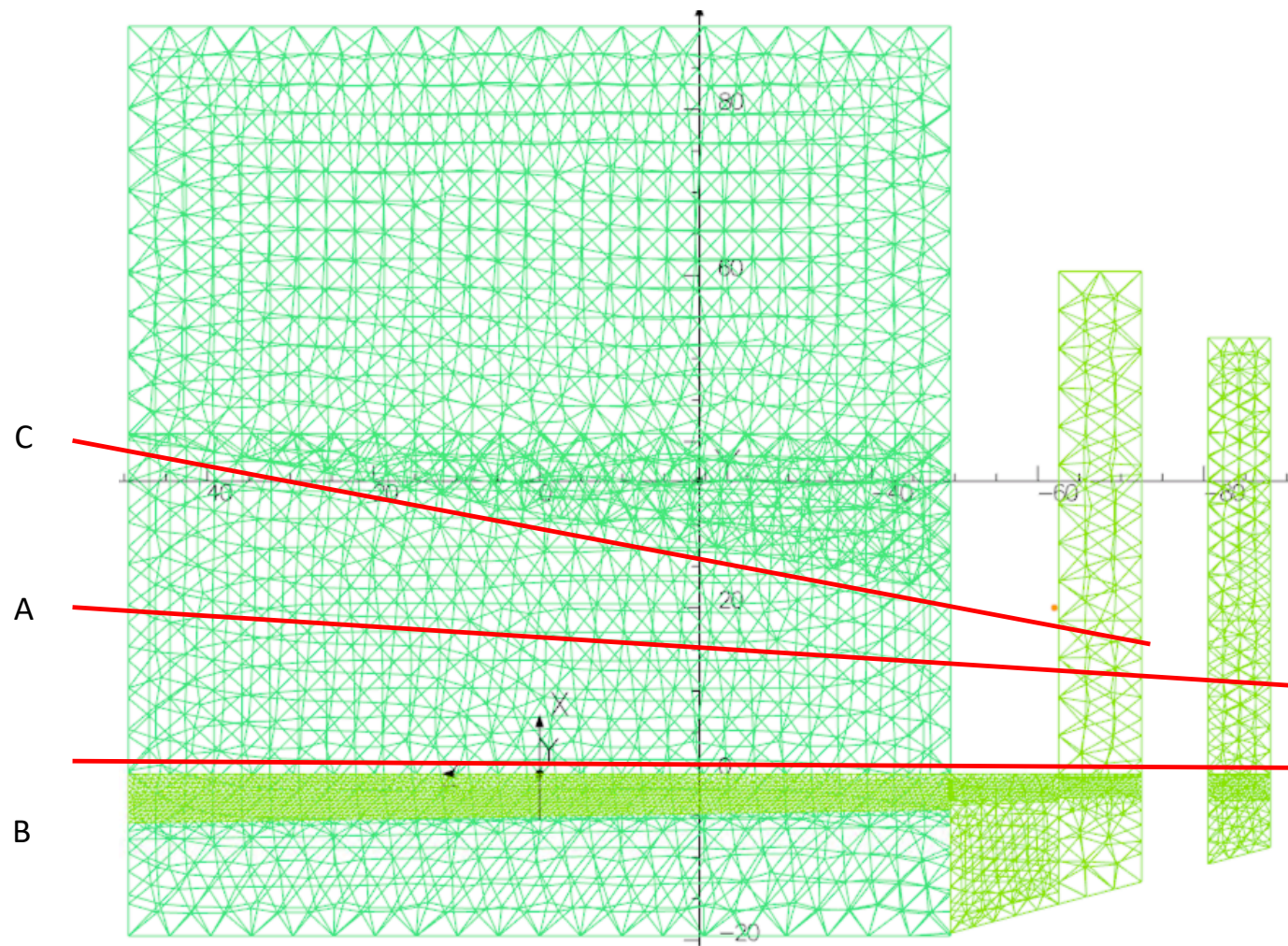


B_x (Gauss) Measured vs. OPERA

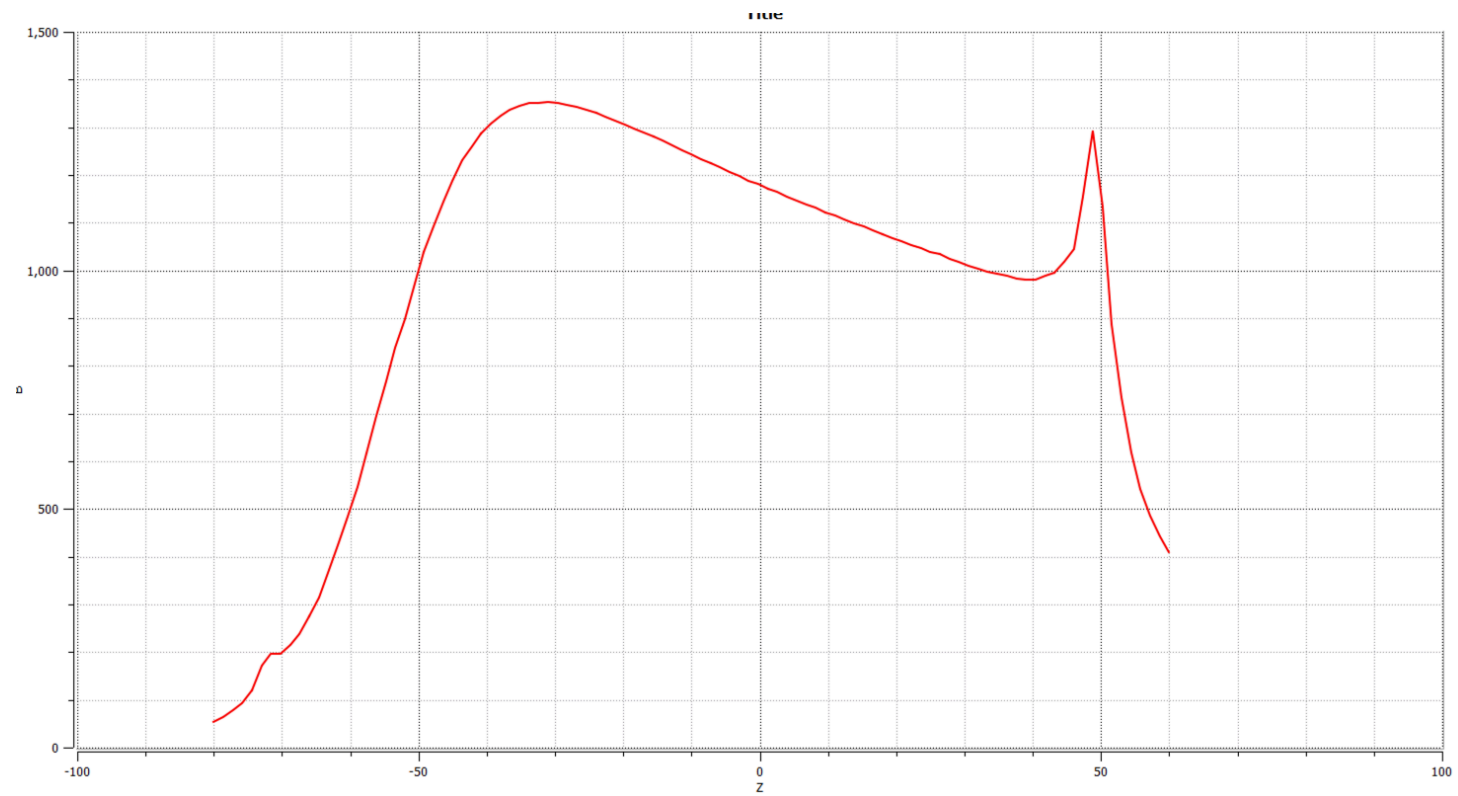
- Dispersion in measured values = variation with x-coord in gap
- OPERA = full calculation w/ clamp coil



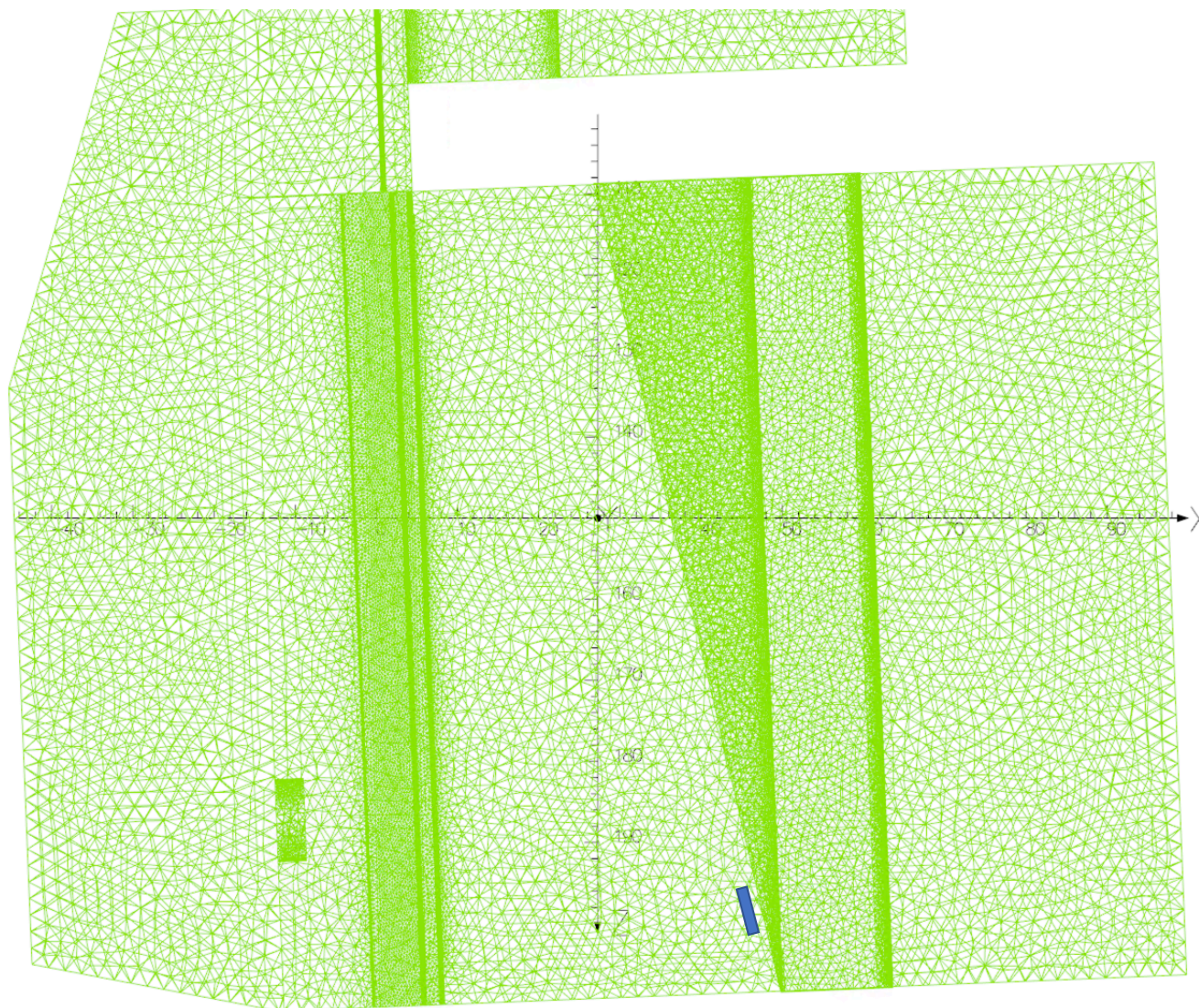
4

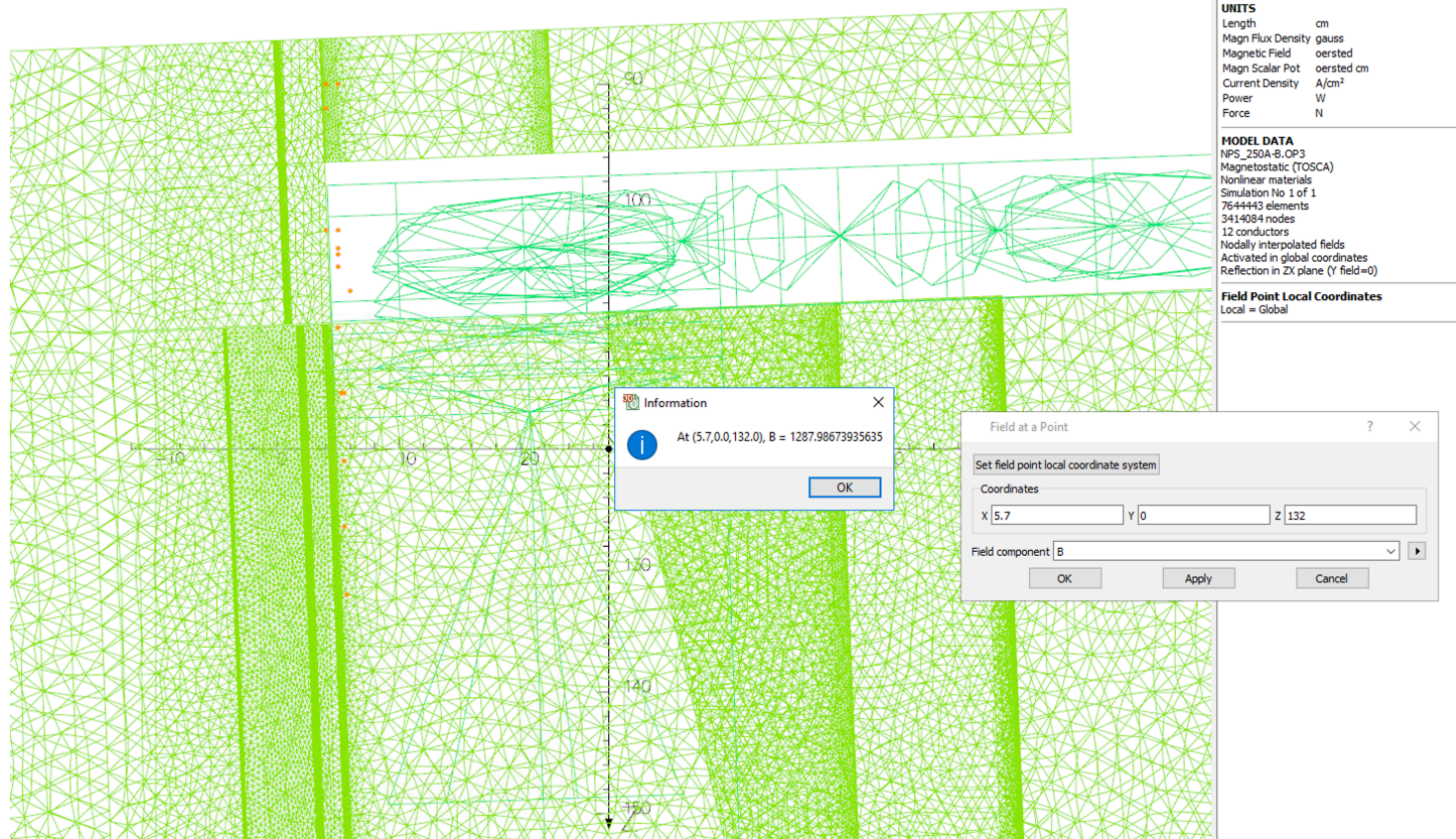


Field calculation along the line B



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| Location of the point in the magnet gap | Measured value, G | Expected value, G | Difference, Gauss |
|---|-------------------|-------------------|-------------------|
| 1) Small angle, narrow opening | | | |
| A, mid. Clamp | 250 | 210 | -40 |
| B, mid. Clamp-Magnet | 700 | 677 | -23 |
| C, pole corner | 1000 | 1043 | 43 |
| D, C+2" | 1150 | 1250 | 50 |
| E, C+4" | 1280 | 1334 | 54 |
| F, C+6" | 1317 | 1360 | 43 |
| G, C+8" | 1333 | 1351 | 18 |
| 2) Large angle, wide opening | | | |
| A, 4" inside | 1097 | 1118 | 21 |
| B, 32" inside | 1502 | 1568 | 66 |
| C, 4" inside | 1042 | 1005 | -37 |
| D, 8" inside | 998 | 1007 | 9 |
| E, 12" inside | 1038 | 1048 | 10 |
| 3) Large angle, narrow opening | | | |
| A, 4" from pole corner | 1880 | 1760 | -80 |
| B, 8" from corner | 1530 | 1494 | -36 |
| C, 12" from corner | 1340 | 1350 | 10 |
| 4) Small angle, wide opening | | | |
| A, 4" inside | 994 | 990 | -4 |
| B, 8" inside | 1021 | 1033 | 12 |
| C, 12" inside | 1072 | 1089 | 17 |

