The scaling of the Main Injector ExtraWide Aperture BPM pickups in the differenceover-sum formulation is summarized here.

The polynomial function for position in millimeters from difference-over-sum is:

$$pos_{mm} = 43.513 * dos + 5.432 * dos^3 + 21.071 * dos^5$$

Bob Webber May 26, 2006