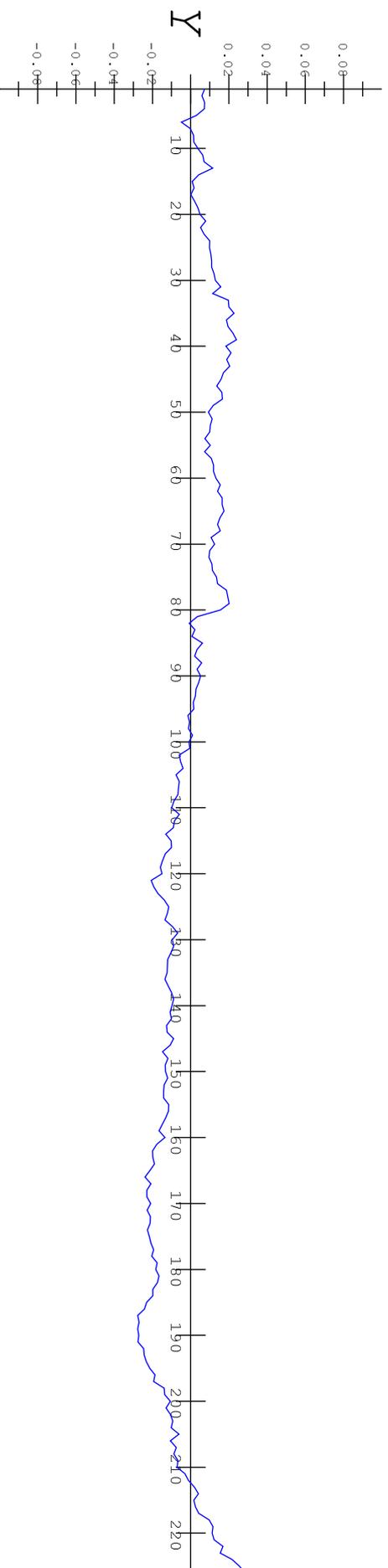
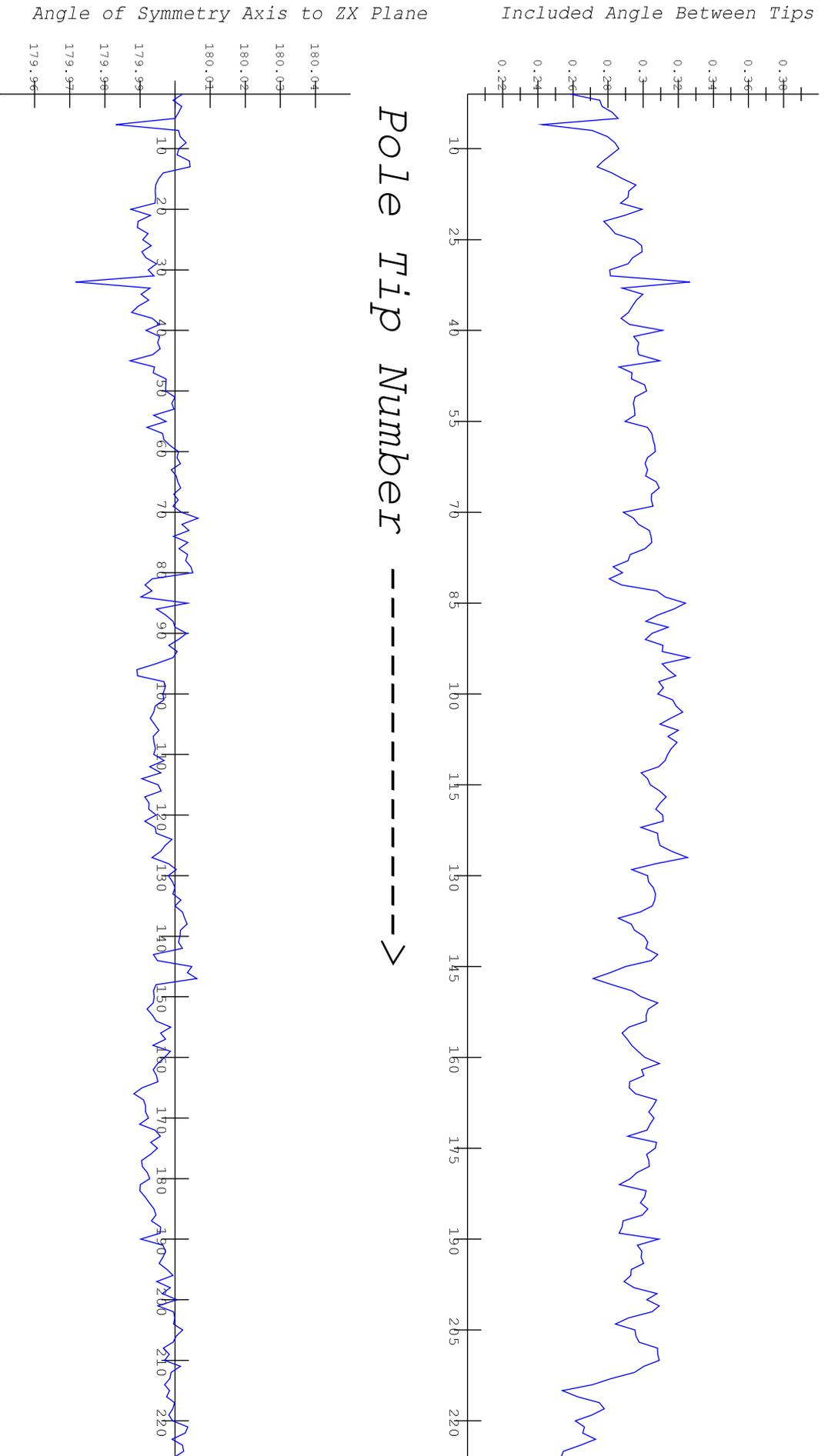


Pole Tip Number ----->



Offsets of Pole Tip Symmetry Point from Nominal Undulator center line
 Pole Tip Symmetry Point is the point where the symmetry axis between tips is bisected by the 6.8mm cross section

<p>SLAC LCLS-MMF LEITZ CMM</p>	<p>Undulator Pole Tip Offsets Measured unrestrained</p>	<p>DATE: 09-FEB-2007 UNDUULATOR # 13</p>
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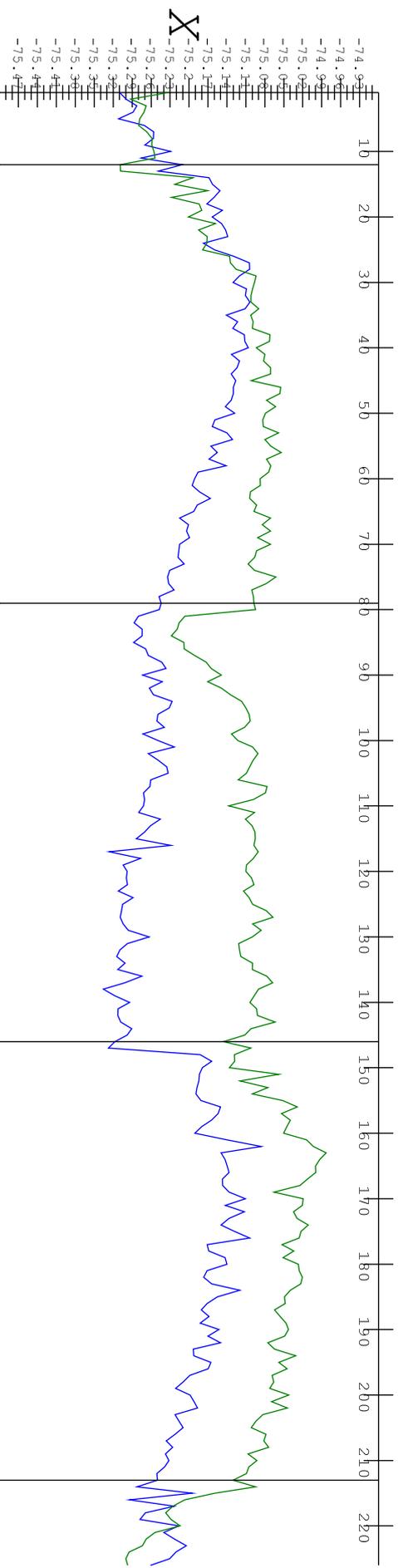
*Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips*

SLAC
 LCLS-MMF
 LEITZ CMM

*Undulator Pole Tip Angles
 Measured unrestrained*

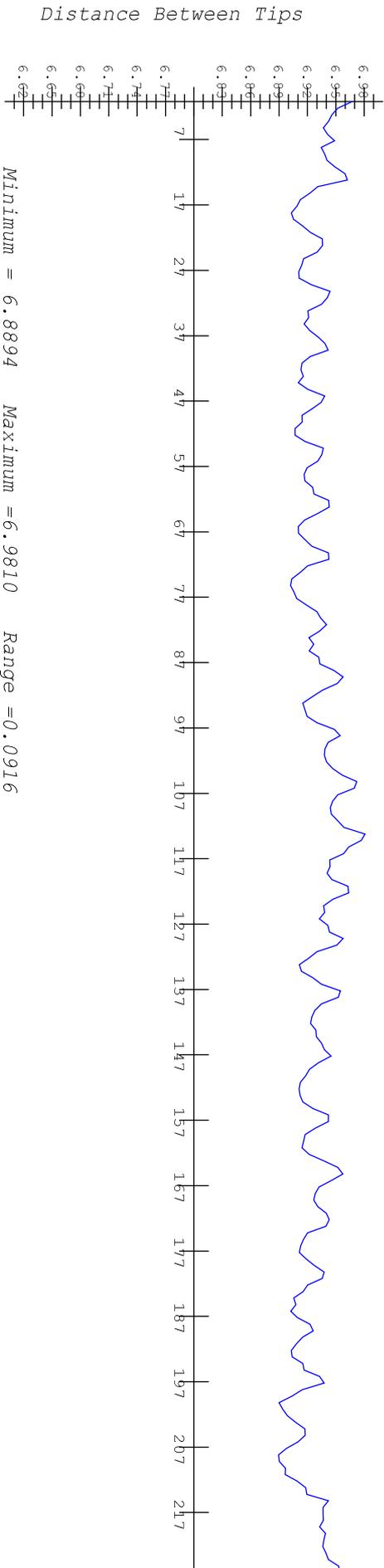
DATE: 09-FEB-2007
 UNDUULATOR # 13

Pole Tip Number ----->

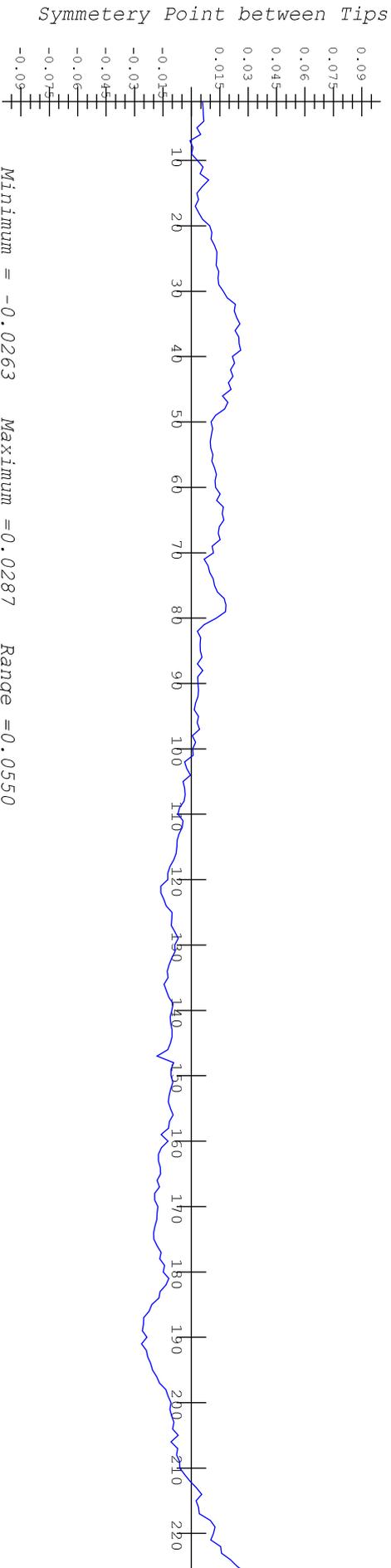


Green = Point on front face of Upper Pole Tip 10mm above Nominal C/L
Blue = Point on front face of Lower Pole Tip 10mm below Nominal C/L

SLAC LCLS-MMF LEITZ CMM	Undulator Pole Tip Location Measured unrestrained	DATE: 09-FEB-2007 UNDUATOR # 13
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Pole Tip Number ----->

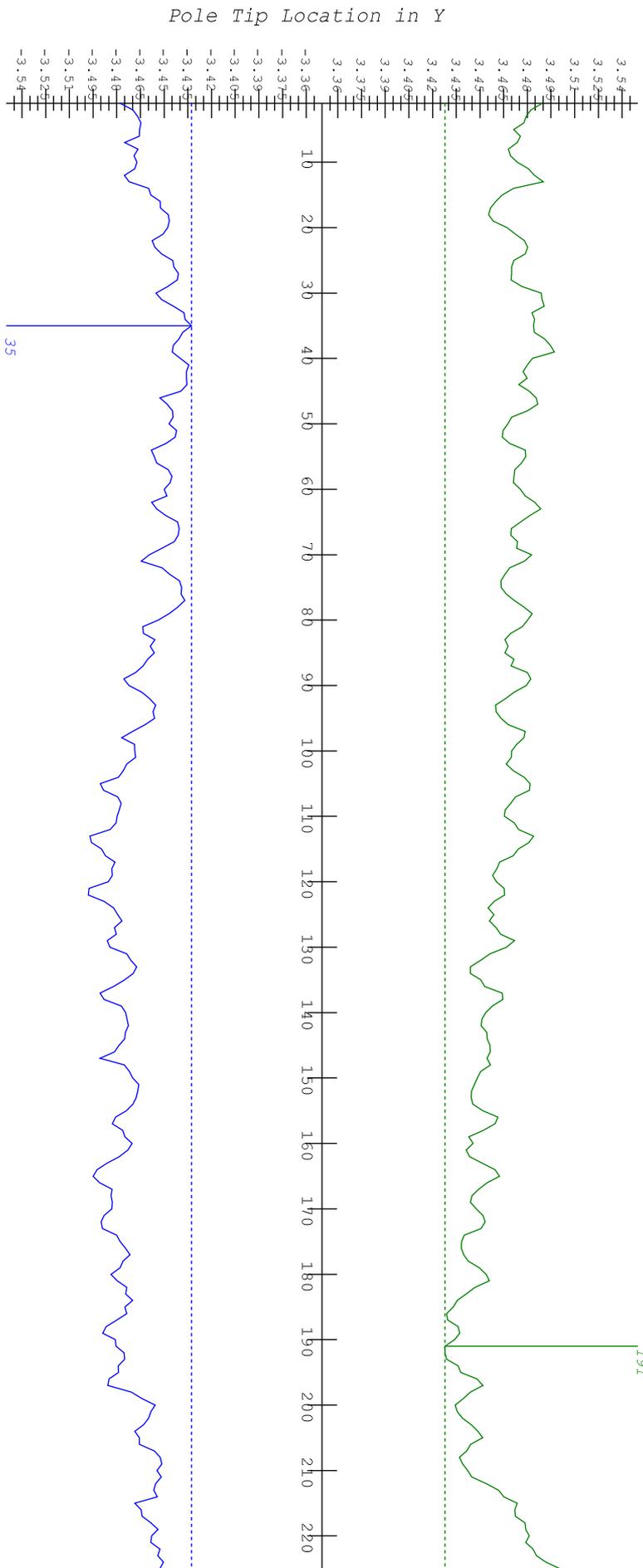


Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a plane 53mm from Datum -B-
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a plane 53mm from Datum -B-

<p style="margin: 0;"> SLAC LCLS-MMF LEITZ CMM </p>	<p style="margin: 0;"> <i>Undulator Pole Tip Location</i> <i>Measured unrestrained</i> </p>	<p style="margin: 0;"> DATE: 09-FEB-2007 UNDUATOR # 13 </p>
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MINIMUM GAP = 6.8604

Minimum = 3.4278 Maximum = 3.5054 Range = 0.0775



Minimum = -3.4980 Maximum = -3.4326 Range = 0.0654

Pole Tip Number ----->

Green = The position of the Upper Pole Tips at 53mm from Datum -B-
Blue = The position of the Lower Pole Tips at 53mm from Datum -B-
Min. Gap = The minimum gap between pole tips 53mm from Datum -B-

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LEITZ CMM

Undulator Pole Tip Location
Measured unrestrained

DATE: 09-FEB-2007
UNDUULATOR # 13