

SLO-US, 20.3.2020, time of COVID-19

Andrej Studen



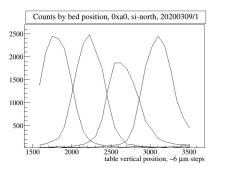
Run 20200903/1

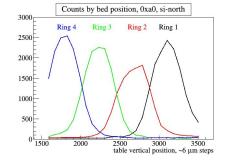
- Moved south down by 100 units
- Opposite effect recorded (peaks move towards higher table position count)
 From email:

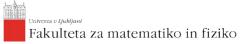
Original (2020/2/5) Adjusted (2020/3/09):

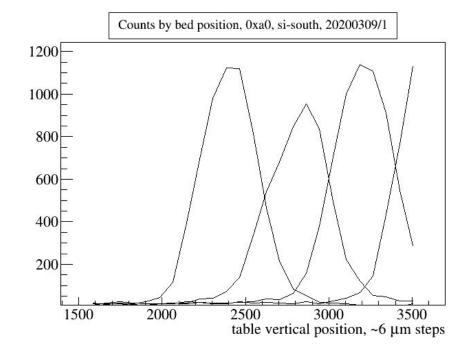
south	2809.69	<mark>3039.066</mark>
north	2370.31	2360.934
BGO	2856.61	2846.55

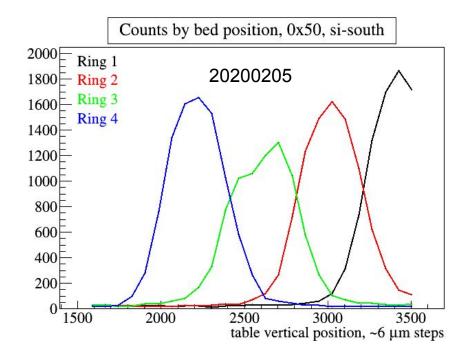
- Clearly, not a good move.
- Asked HK to move up by 300 (in stepper units, shift of 230 recorded, 440 desired)









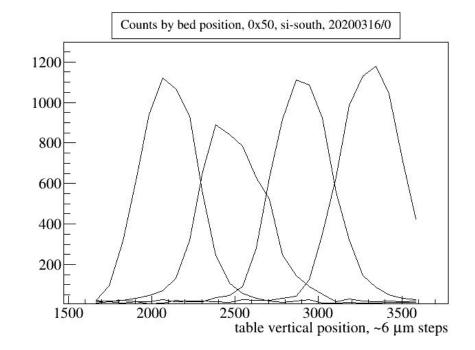


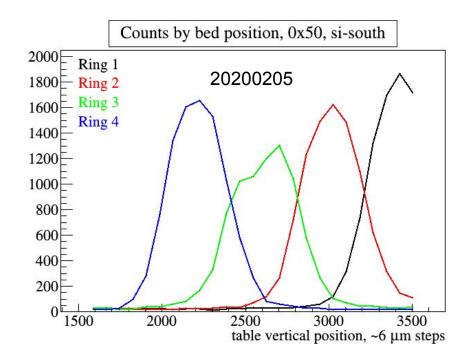
Run 20201603/0

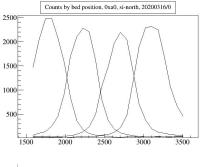
• Moved south up by 300 units Original (2020/2/5) Adjusted (2020/3/16):

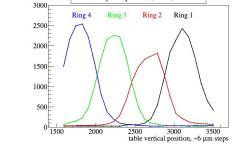
south	2809.69	<mark>2611.8</mark>
north	2370.31	2410.2
BGO	2856.61	3135.0

• Error on BGO!





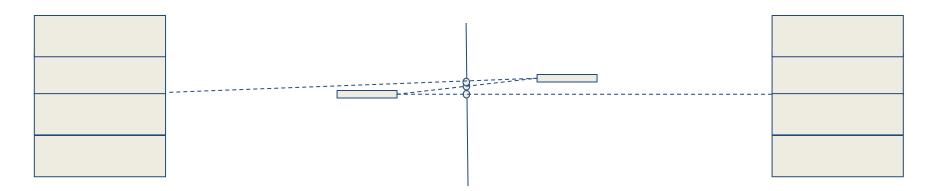




Counts by bed position, 0xa0, si-north

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Vertical calibration



- Updated formulas
- Use measured center between si-detectors from si scan and gap between 2nd and 3rd ring
- Assuming XS measured for sibgo-south, XN for sibgo-north and XSi for si only, all in step coordinates
- Assume B to be BGO center, s to be center of south si and n to be center of north si, the following holds

XS=s+(a/(1+a))(B-s) XN=n+(a/(1+a))(B-n)XSi=(n+s)/2

- where a=dSi/dBGO is ratio of silicon vs. BGO detector distance, a equals one fifth..
- s=XSi+(1+a)(XS-XN)/2
- n=Xsi-(1+a)(Xs-XN)/2
- B=((1+a)/a)(XN+XS)/2-(1/a)XSi

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