

Physics Energy distribution

2019 Summer Work

Work Process

1. Arranging the DST files for focusing the DCV values.

1. Run81 : /home/had/shiomi/work/production/run81/pro0/work/fiber_out/dst_data

2. Run82 : /gpfs/fs03/had/koto/ps3/klea/production/run82/pro1/work/fiber_out/dst_data

3. Trig : CSIEt

2. Getting the histogram from arranged DST files.

1. $DCV_{Peak} \times \text{Calibration Factor} = DCV_{Energy}$

3. Comparing the Energy distribution

1. Set the same bin

2. Calculating the Ratio(E_{ne1} / E_{ne2}) at the same bin.

3. Fitting the ratio distribution by 'ax + b' function.

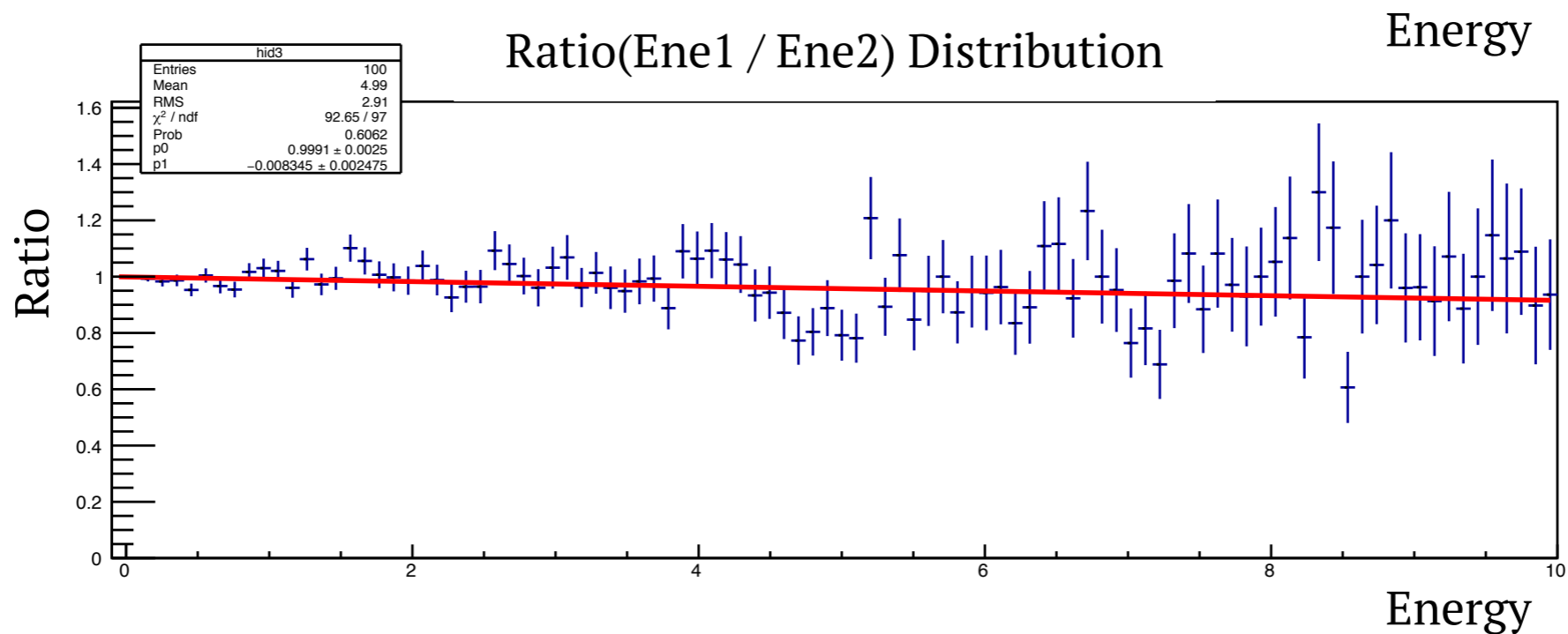
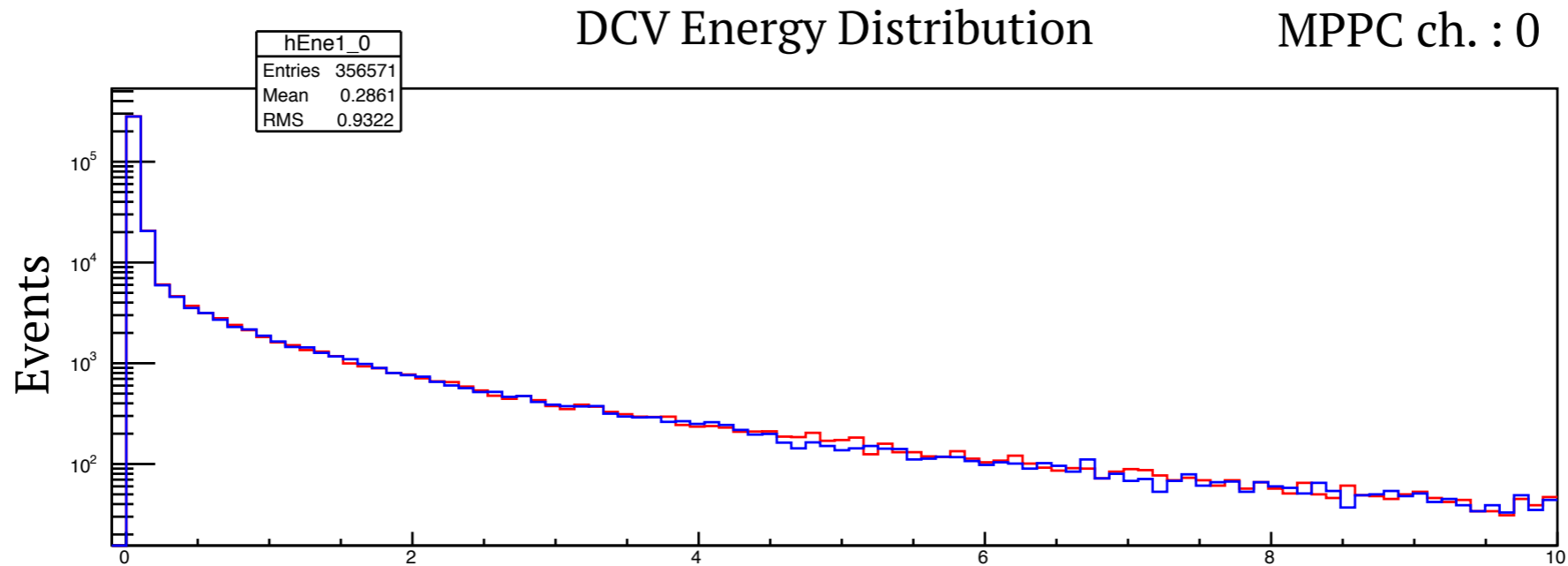
4. Getting the chi2 value from fitting result.

Compare the energy distribution

R : 30798

B : 30799

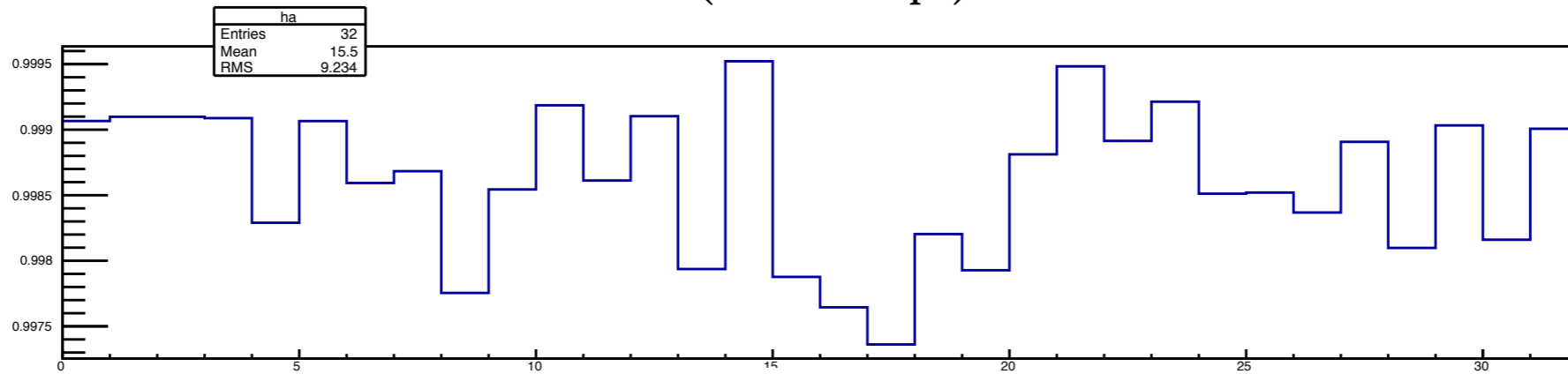
MPPC ch. : 0



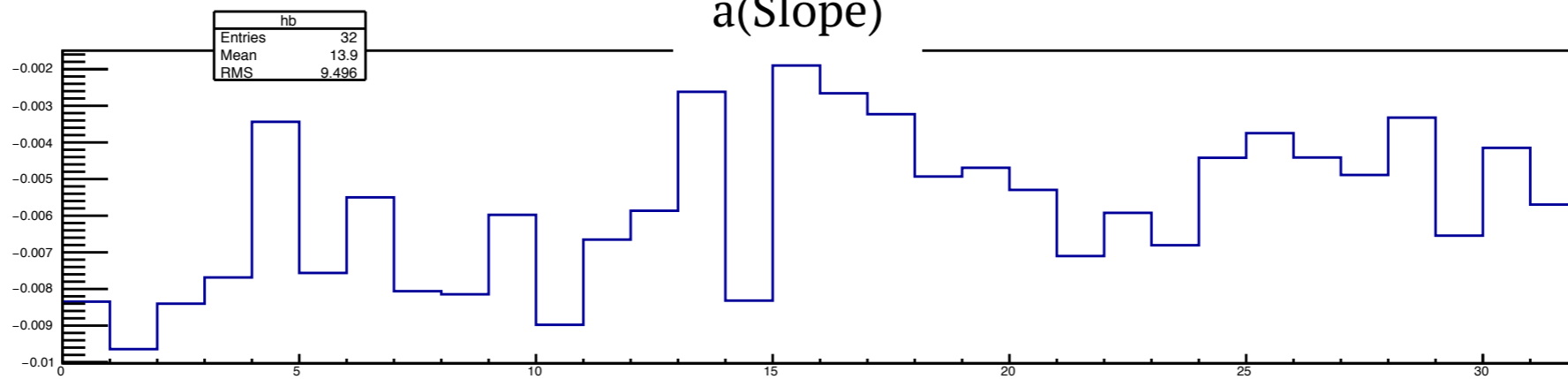
Result from all channels

Fitting function = $ax + b$

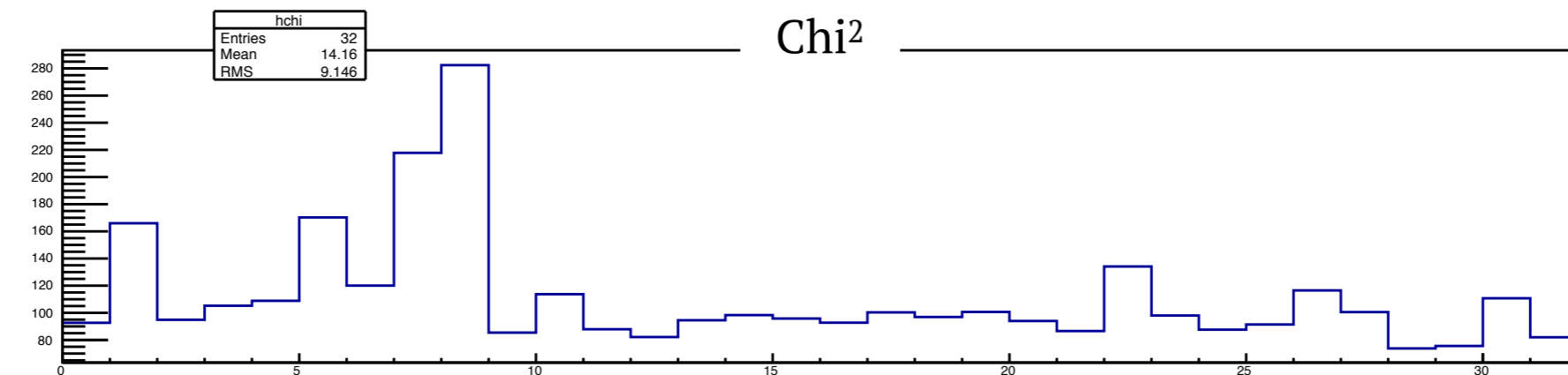
b(Y-intercept)



a(Slope)

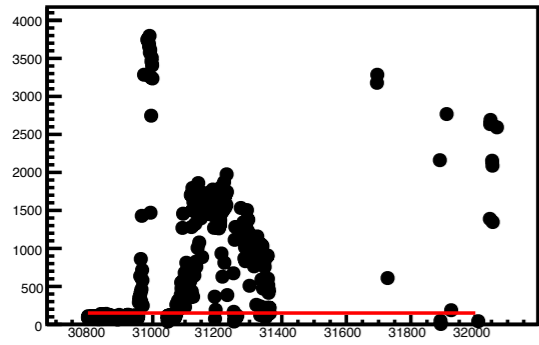


Chi²

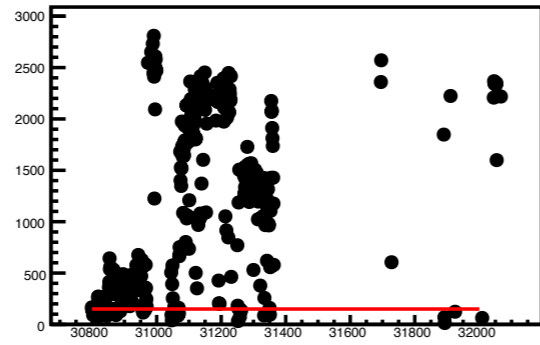


Chi Square

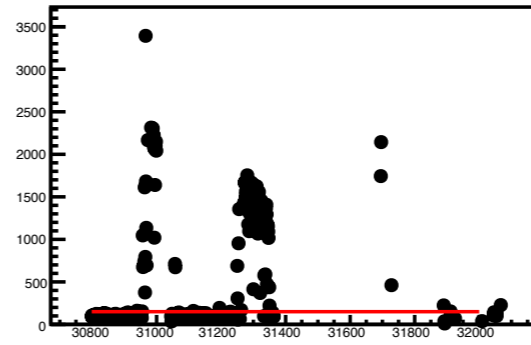
Ch.0



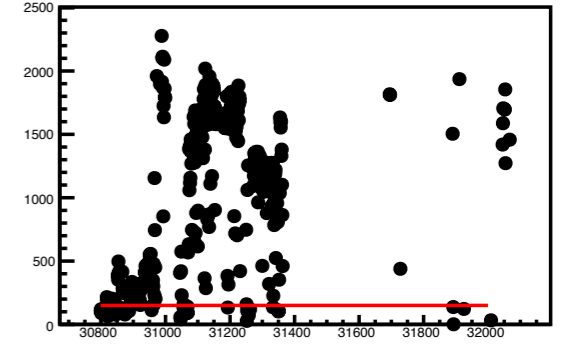
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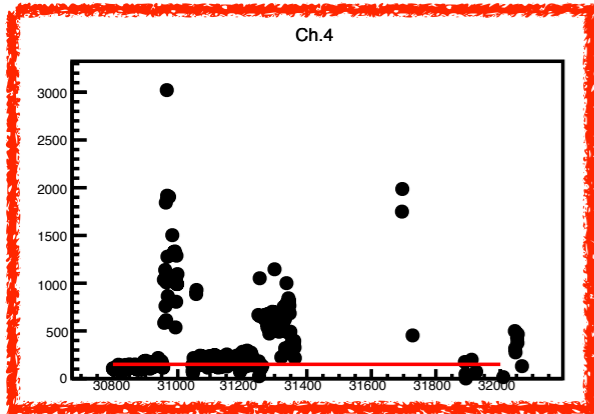
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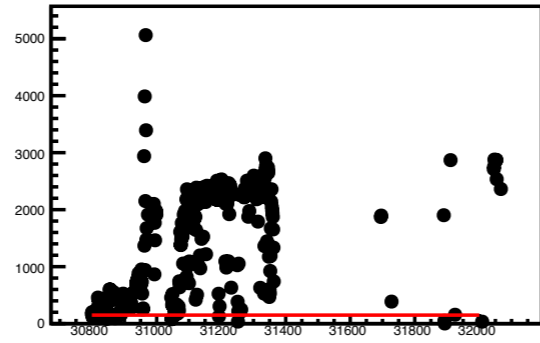
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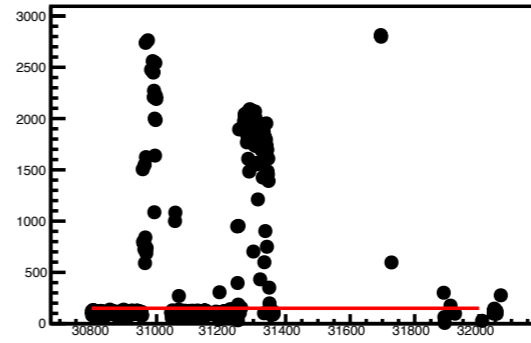
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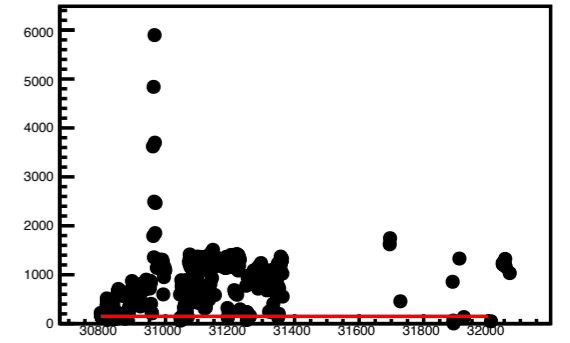
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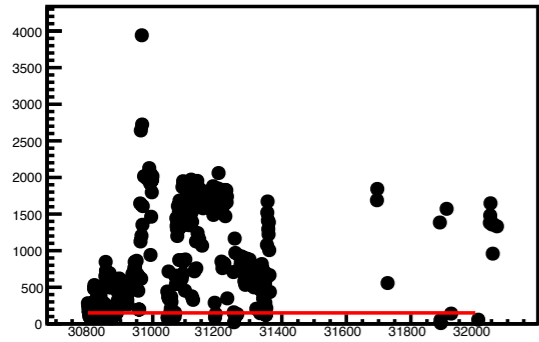
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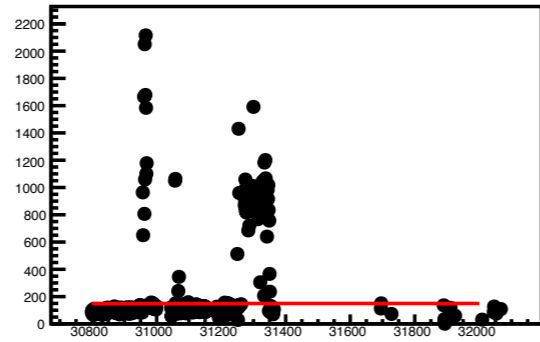
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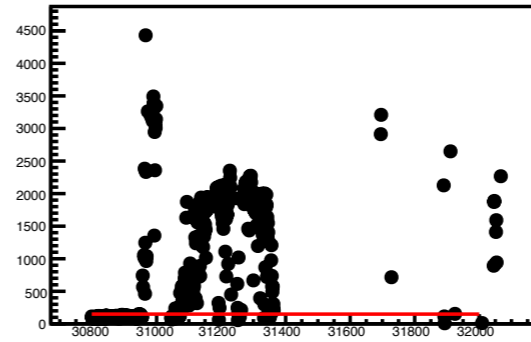
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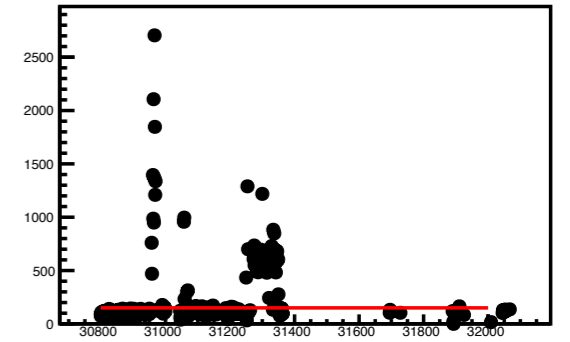
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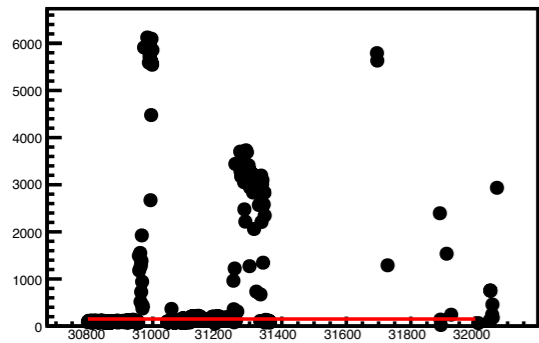
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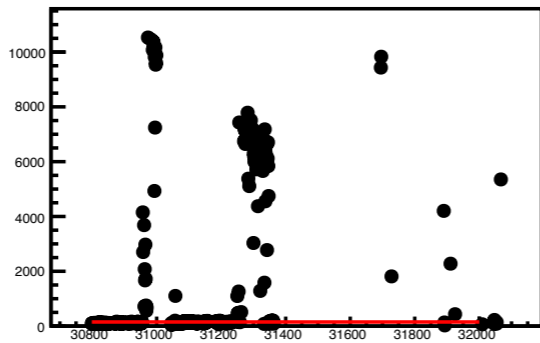
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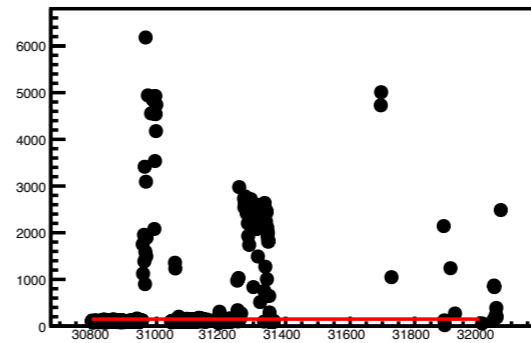
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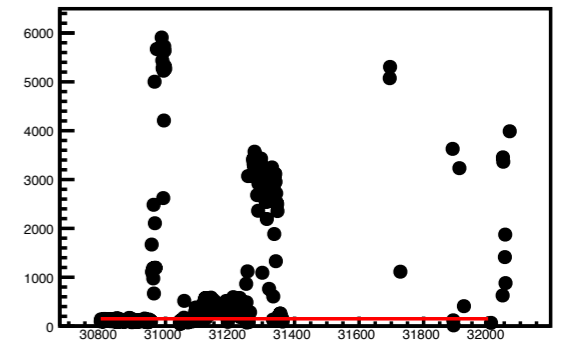
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Ch.14

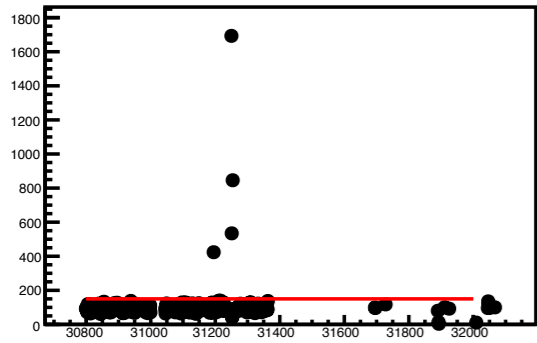


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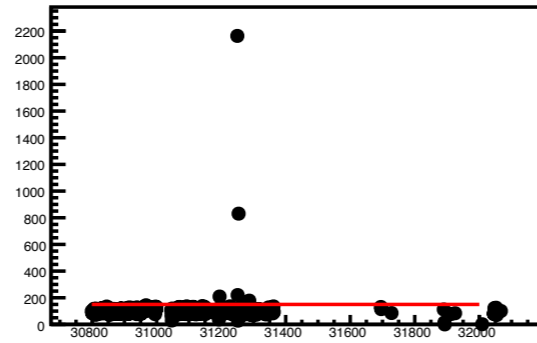


Chi Square

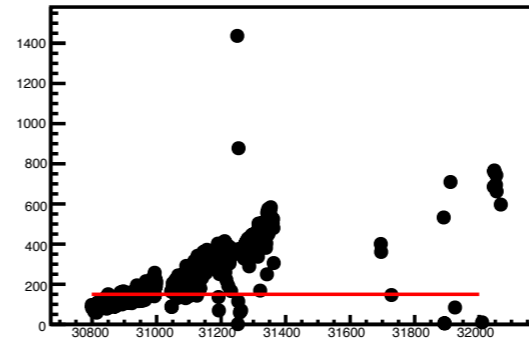
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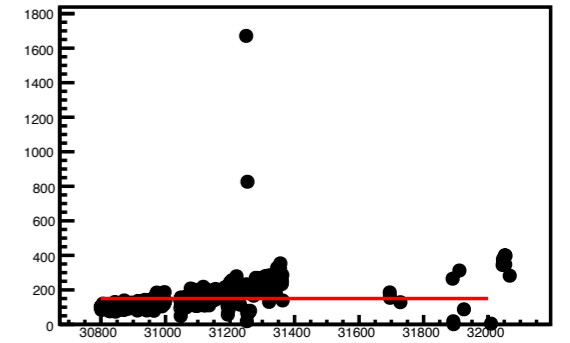
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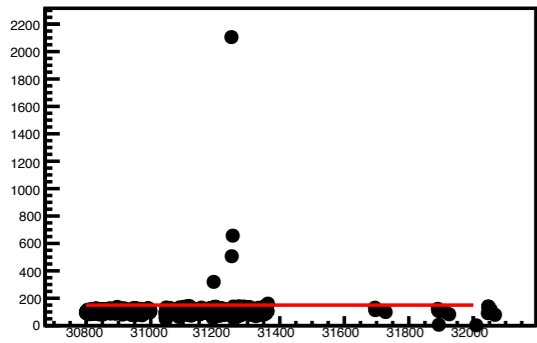
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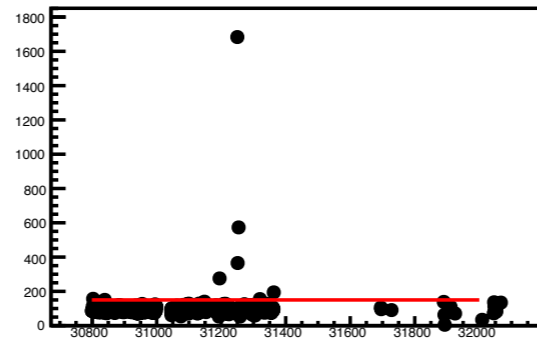
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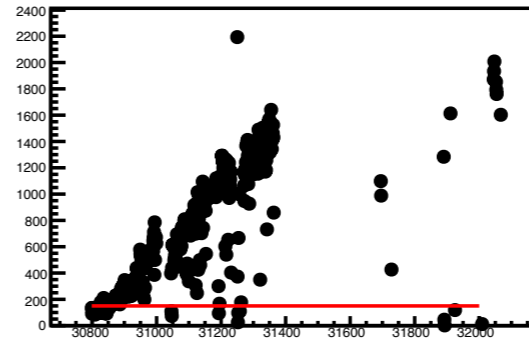
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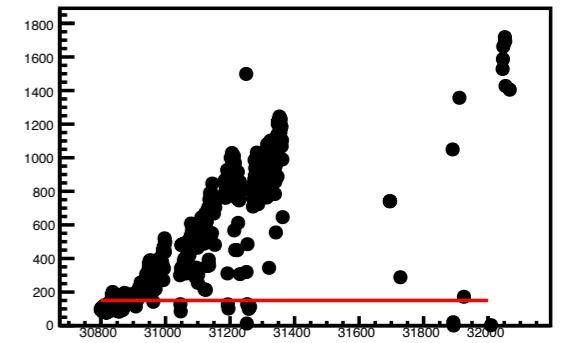
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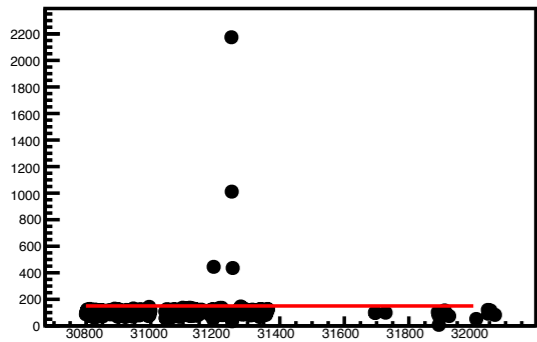
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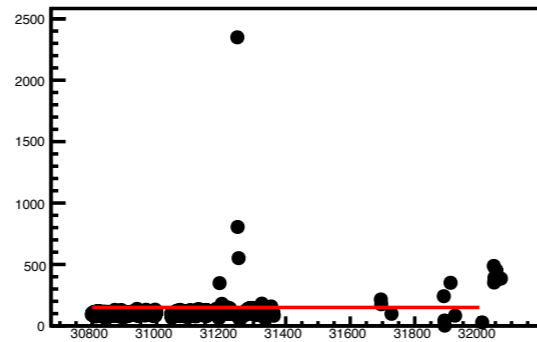
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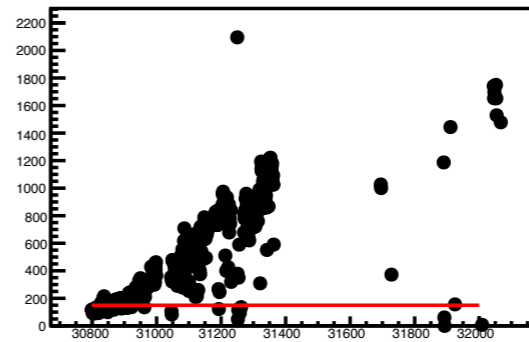
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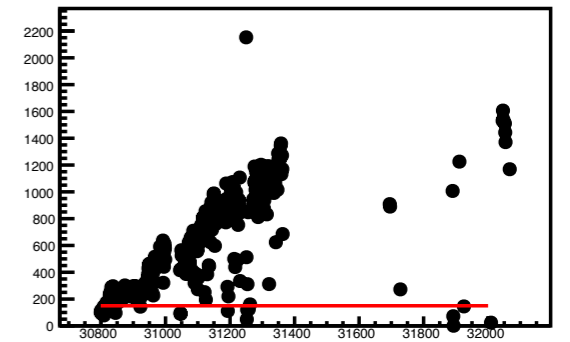
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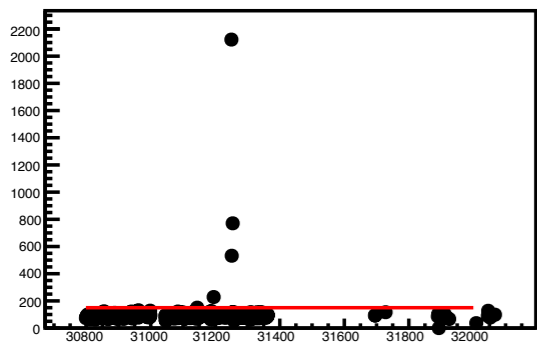
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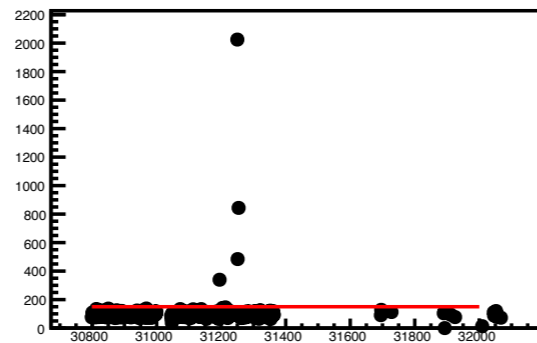
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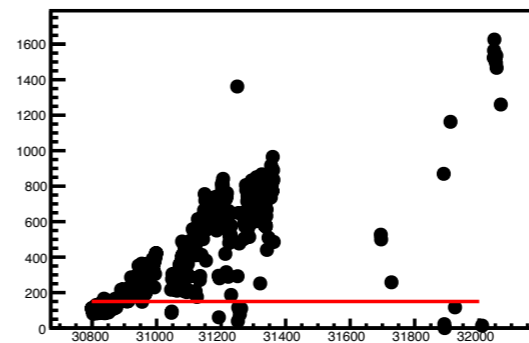
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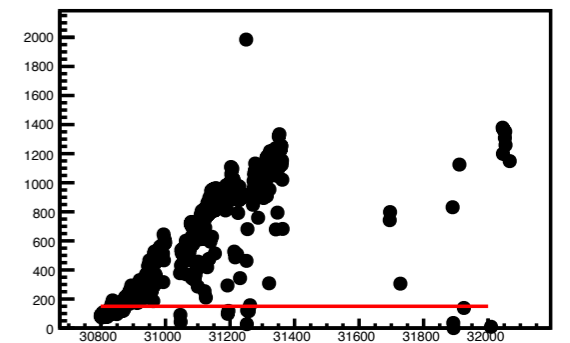
Ch.29



Ch.30

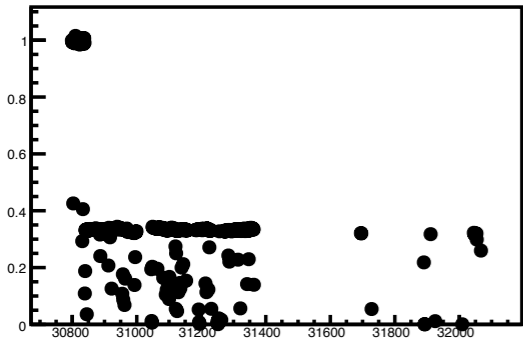


Ch.31

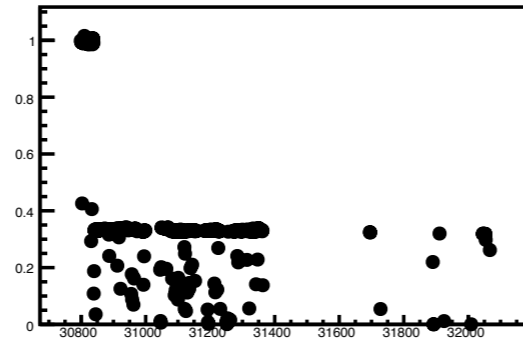


Y Intercept

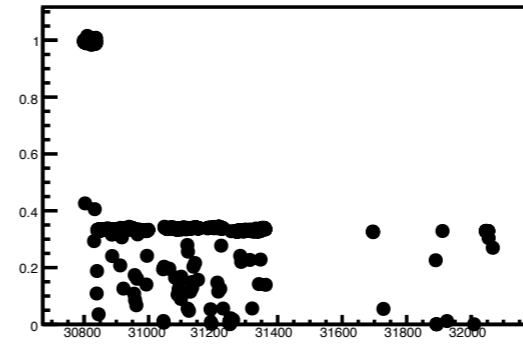
Ch.0



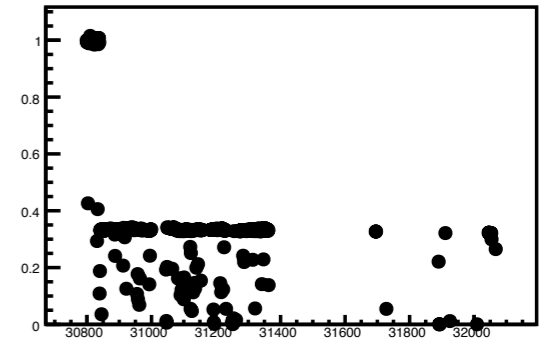
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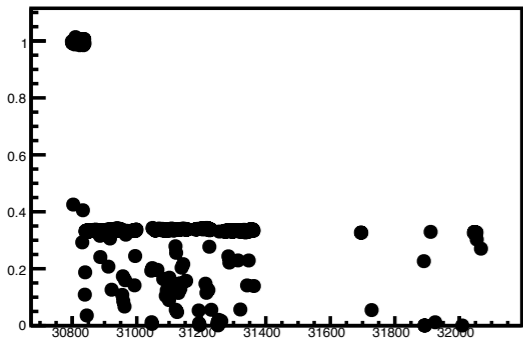
Ch.2



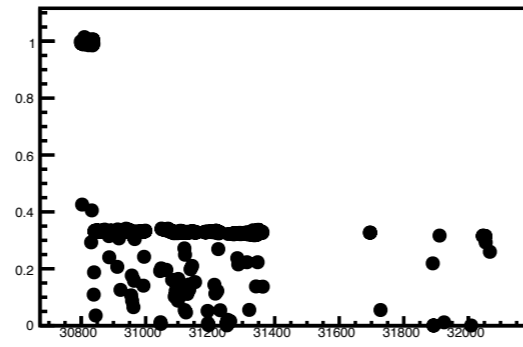
Ch.3



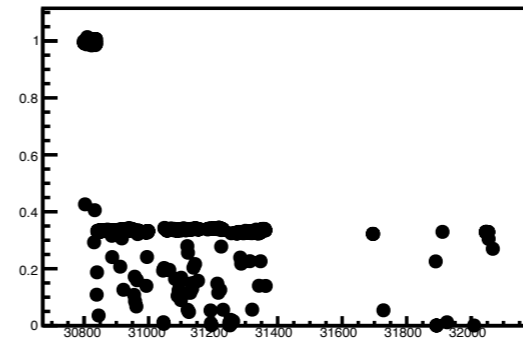
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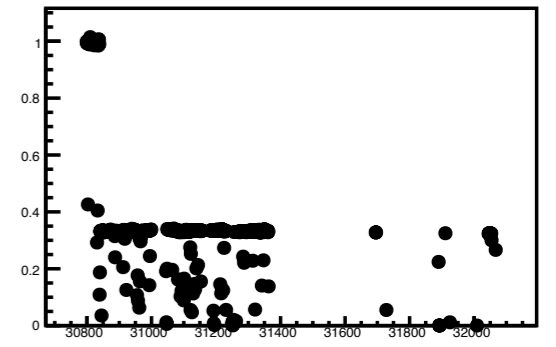
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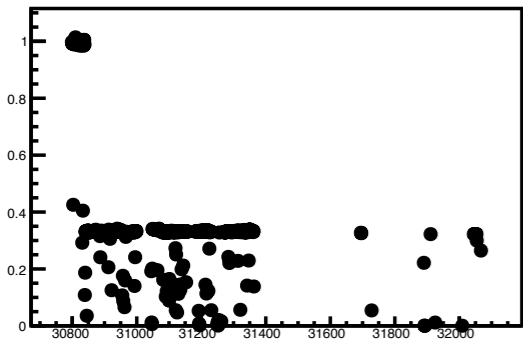
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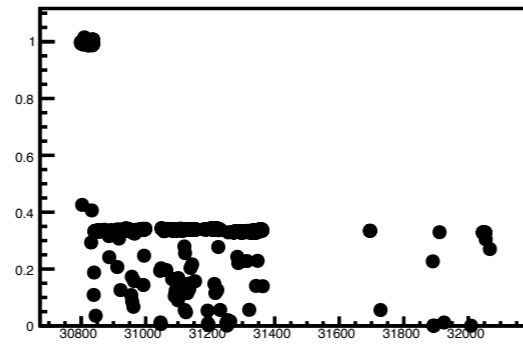
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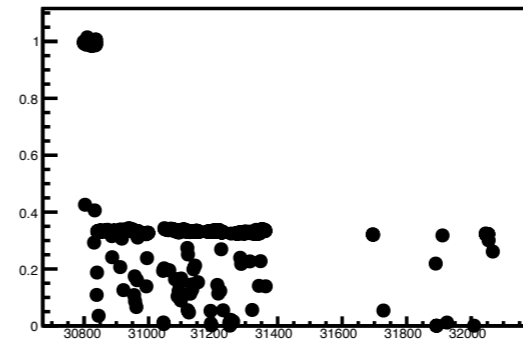
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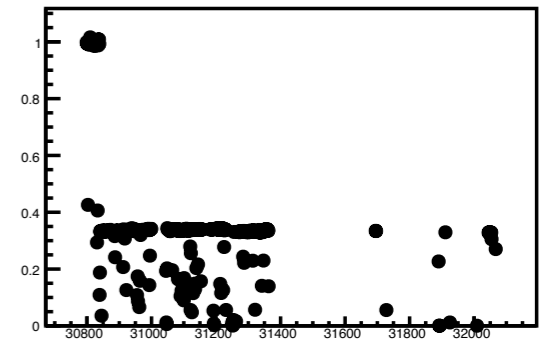
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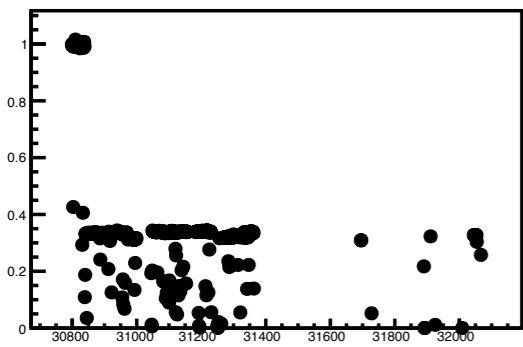
Ch.10



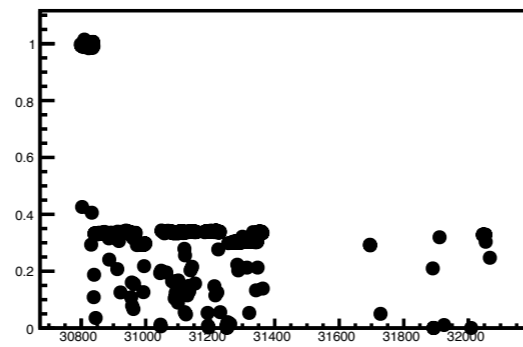
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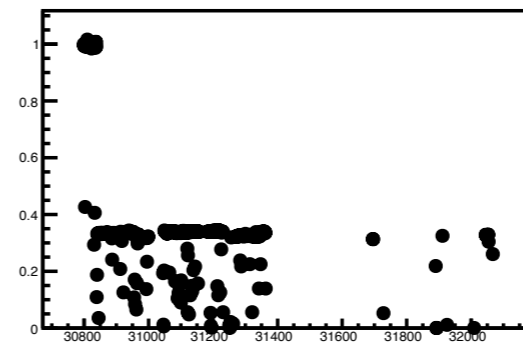
Ch.12



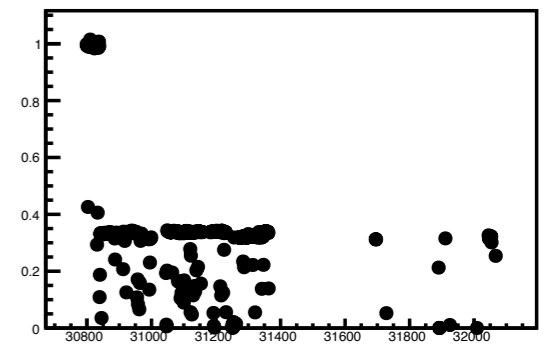
Ch.13



Ch.14

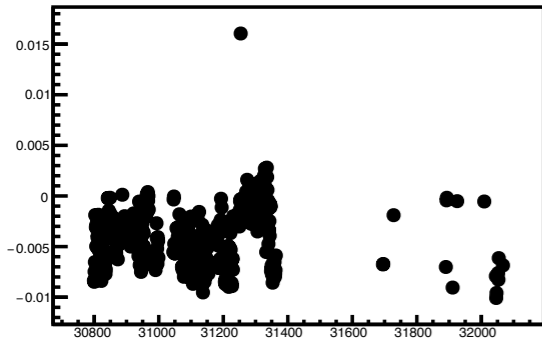


Ch.15

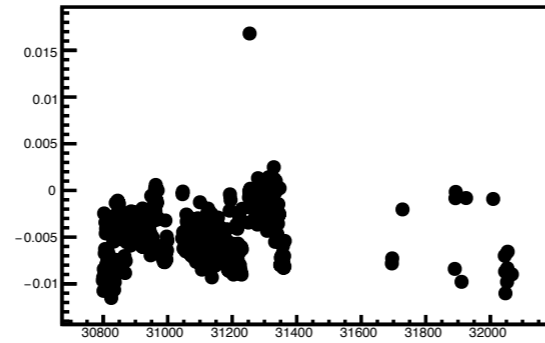


Slope

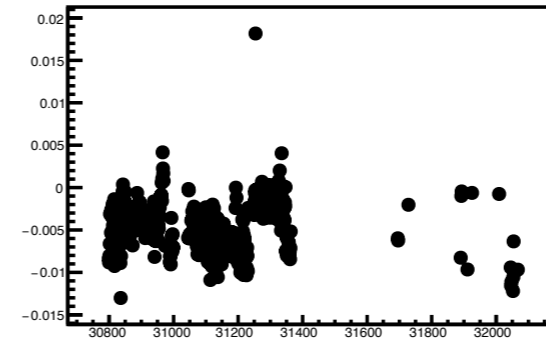
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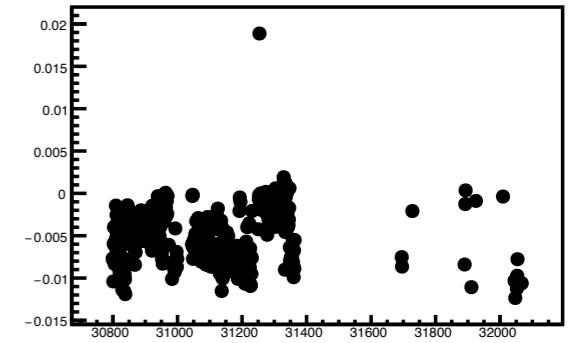
Ch.1



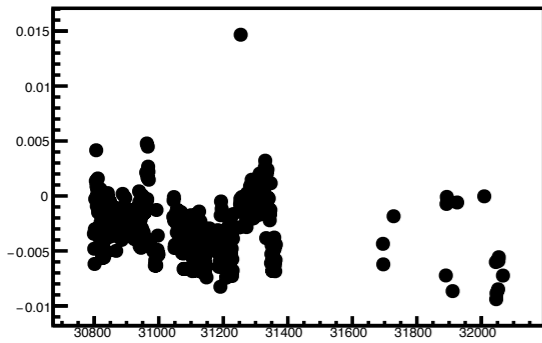
Ch.2



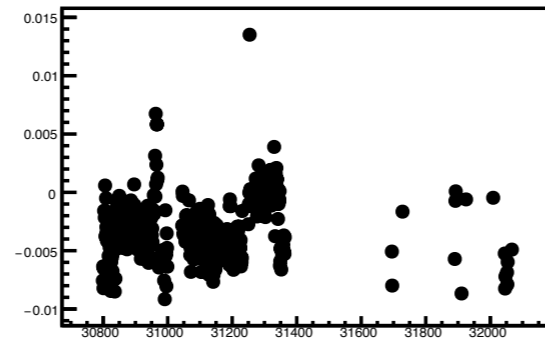
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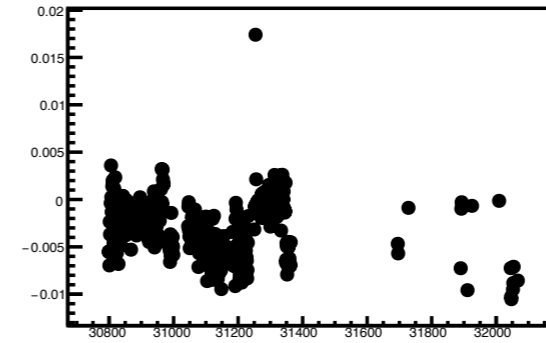
Ch.4



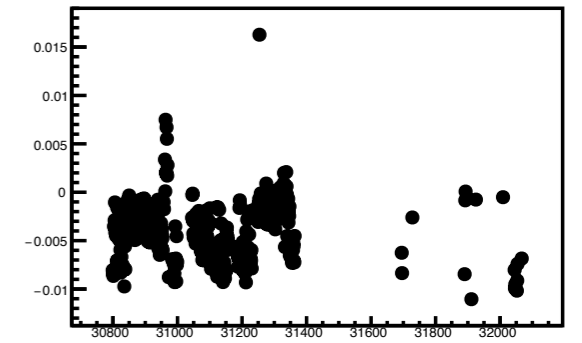
Ch.5



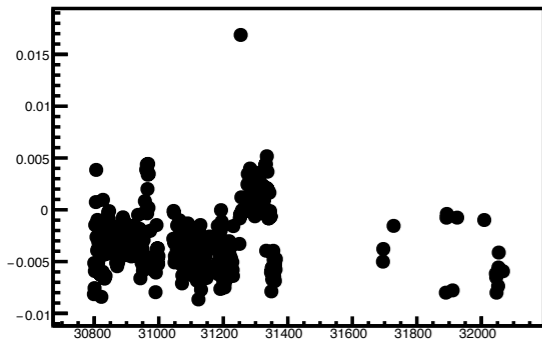
Ch.6



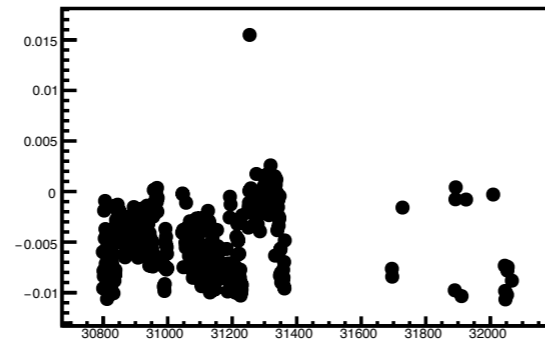
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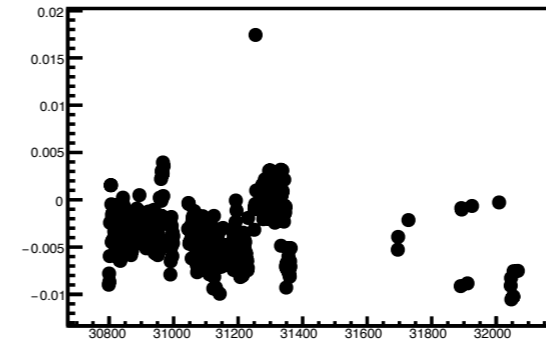
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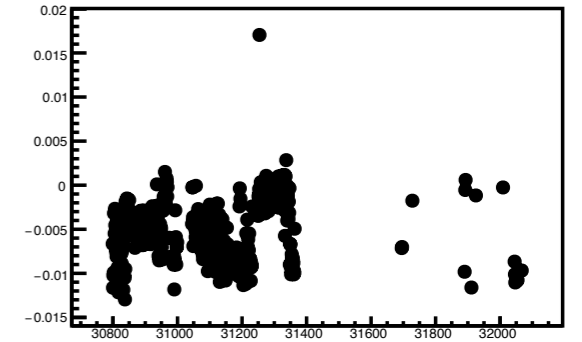
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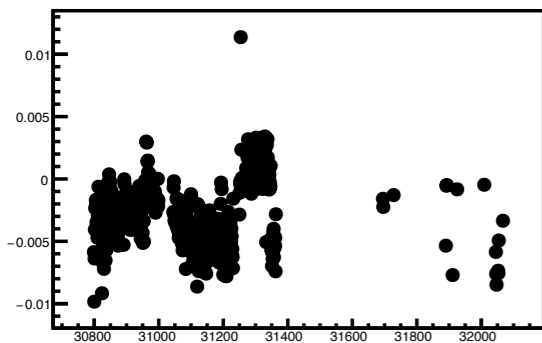
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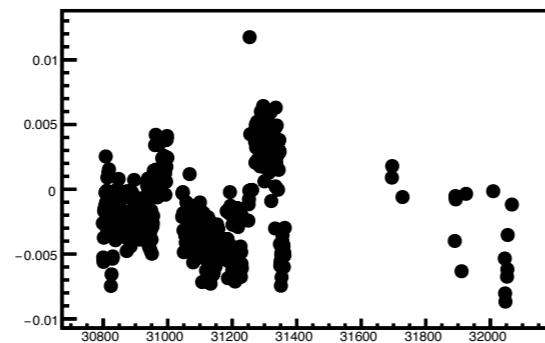
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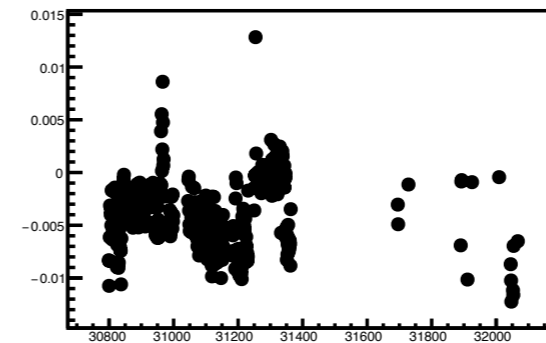
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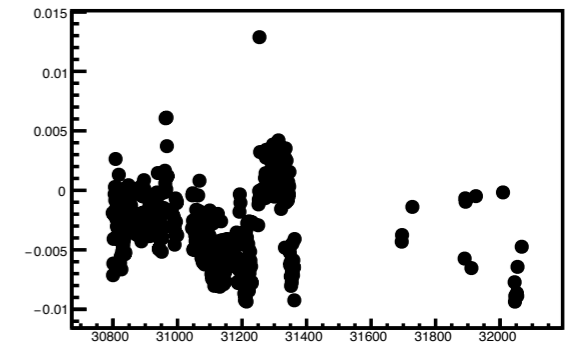
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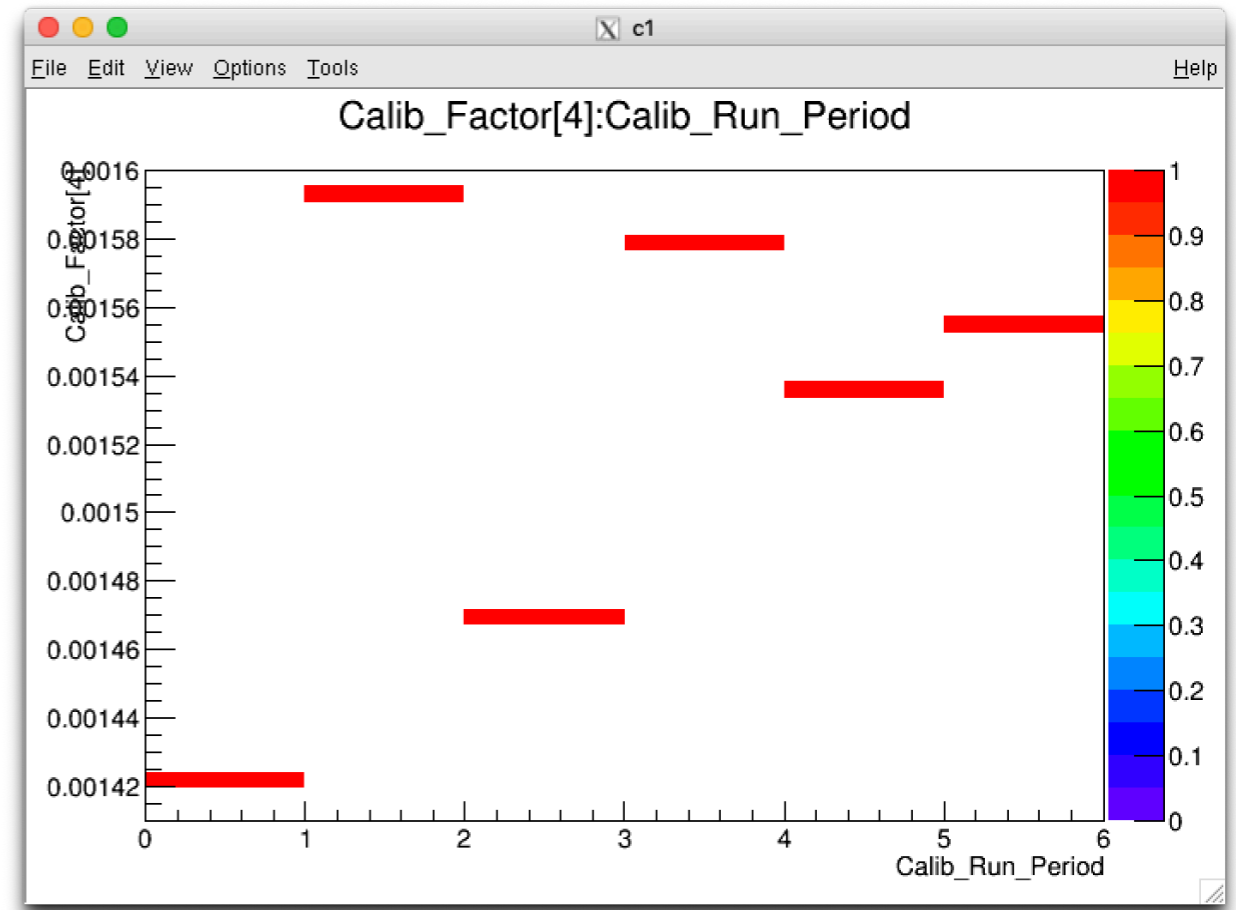
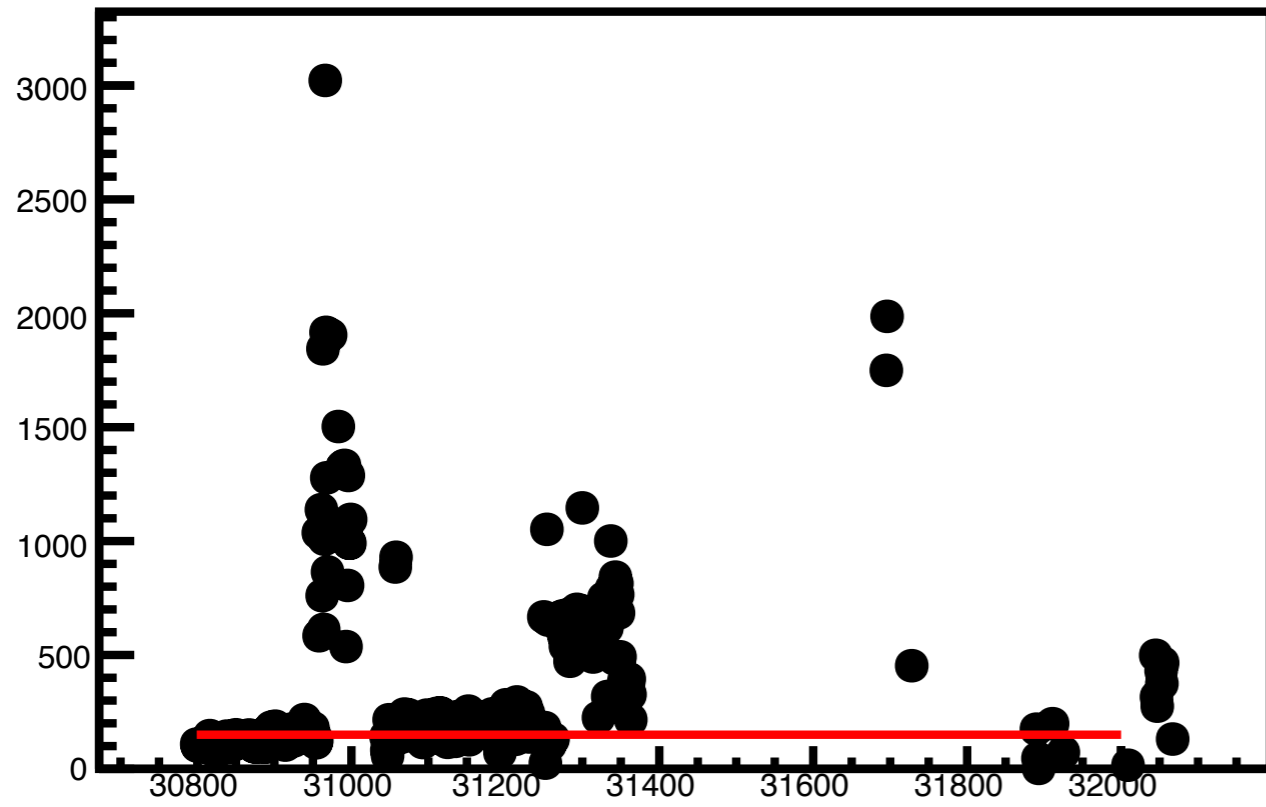
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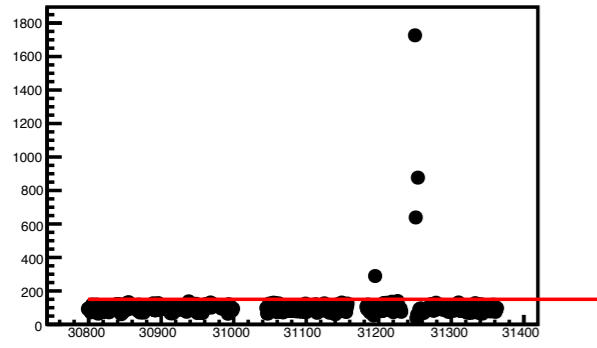
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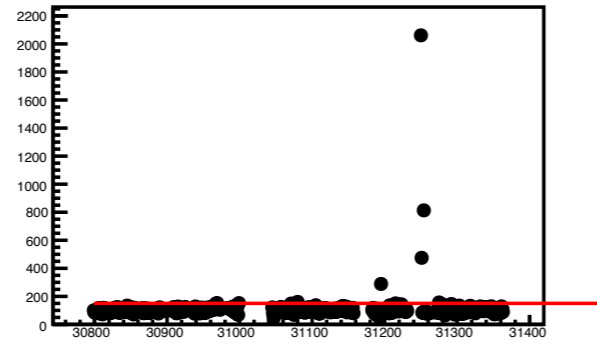
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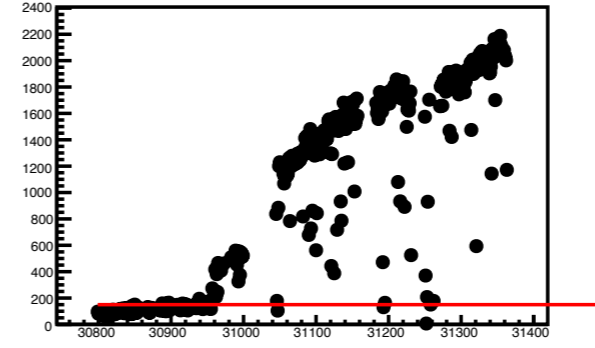
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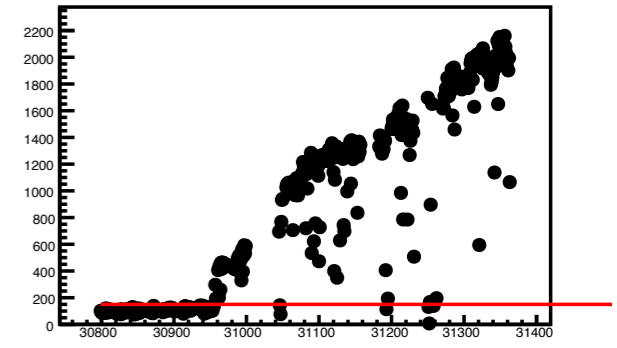
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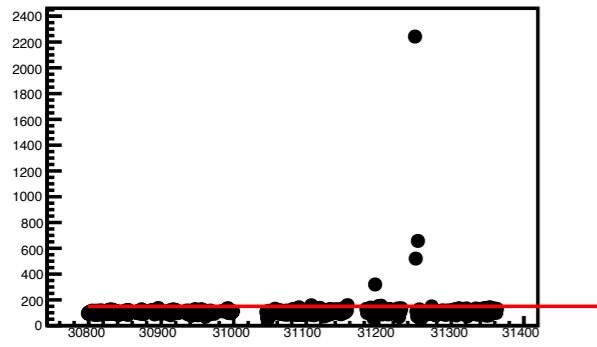
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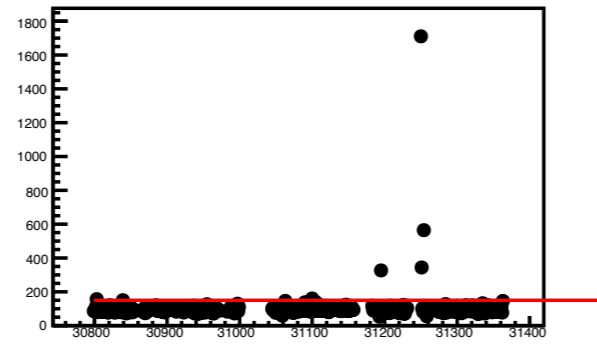
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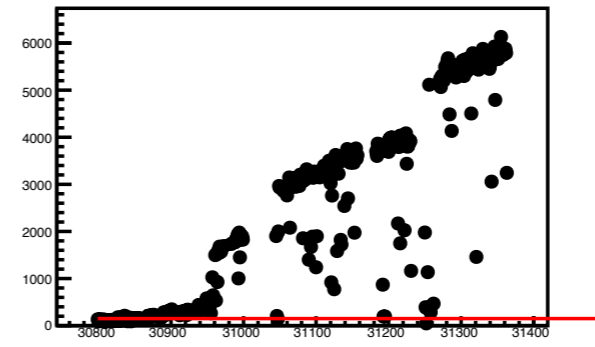
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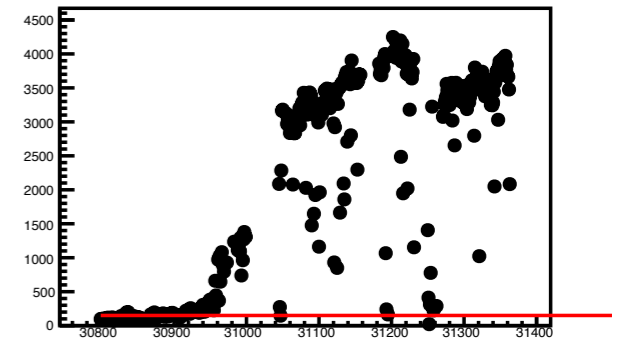
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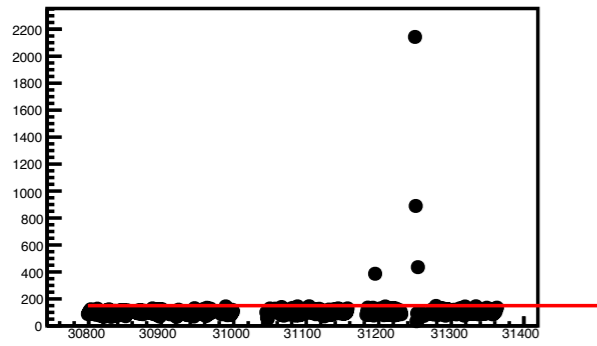
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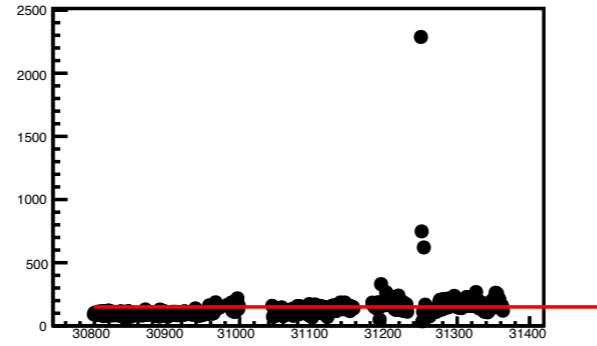
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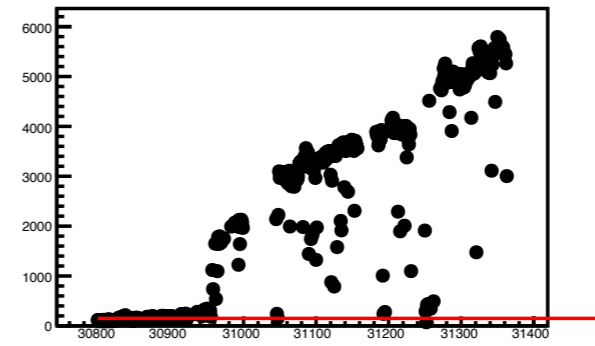
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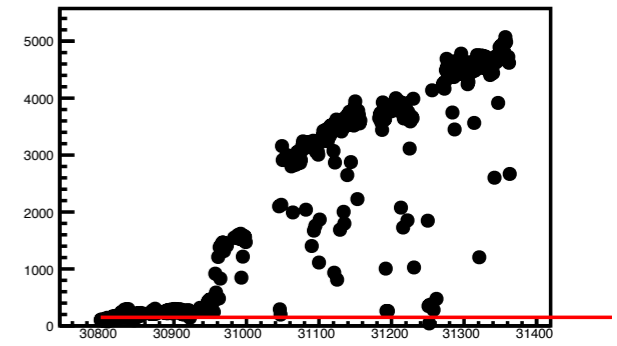
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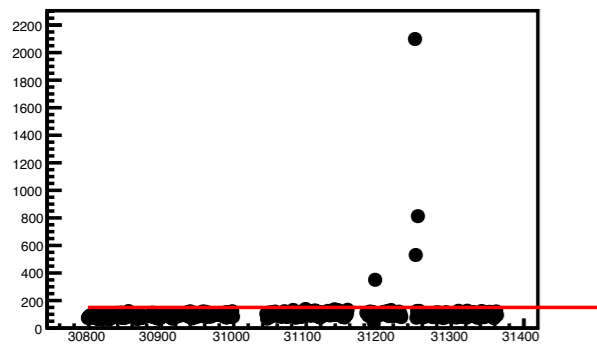
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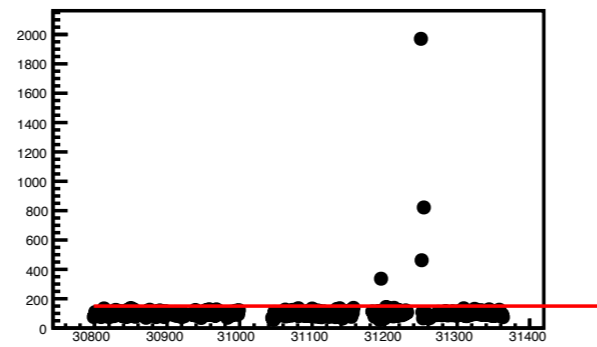
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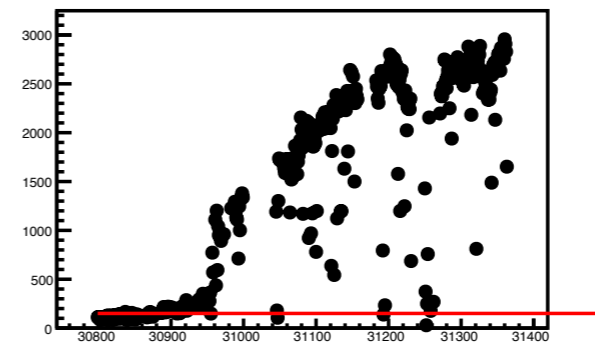
Ch.28



Ch.29



Ch.30



Ch.31

