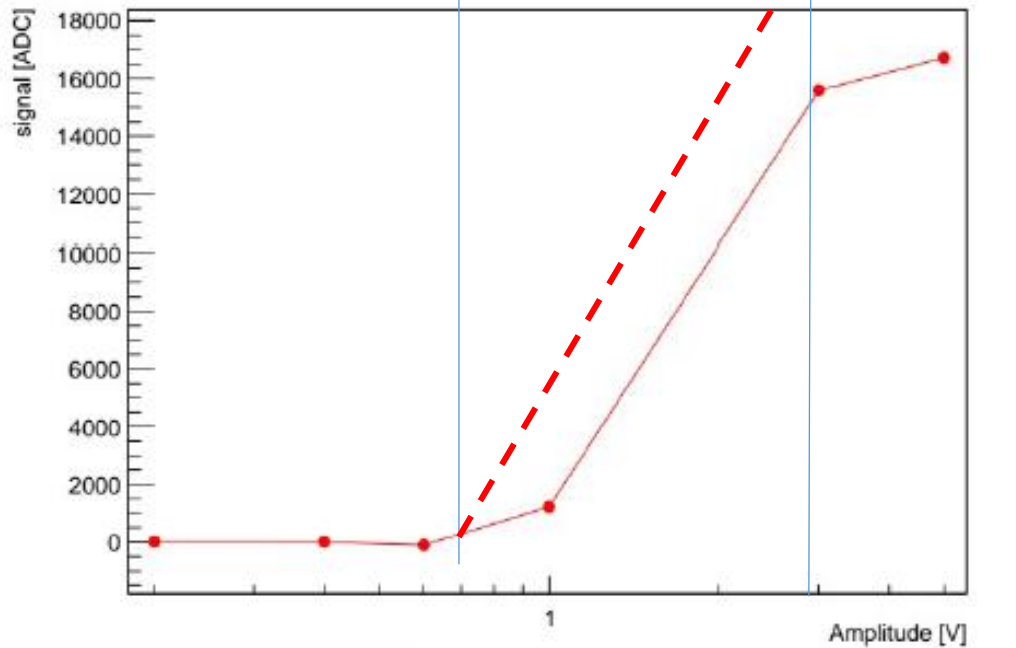


Injection start for Channel2>0.7 Volt

Plateau reached at 2 Volt

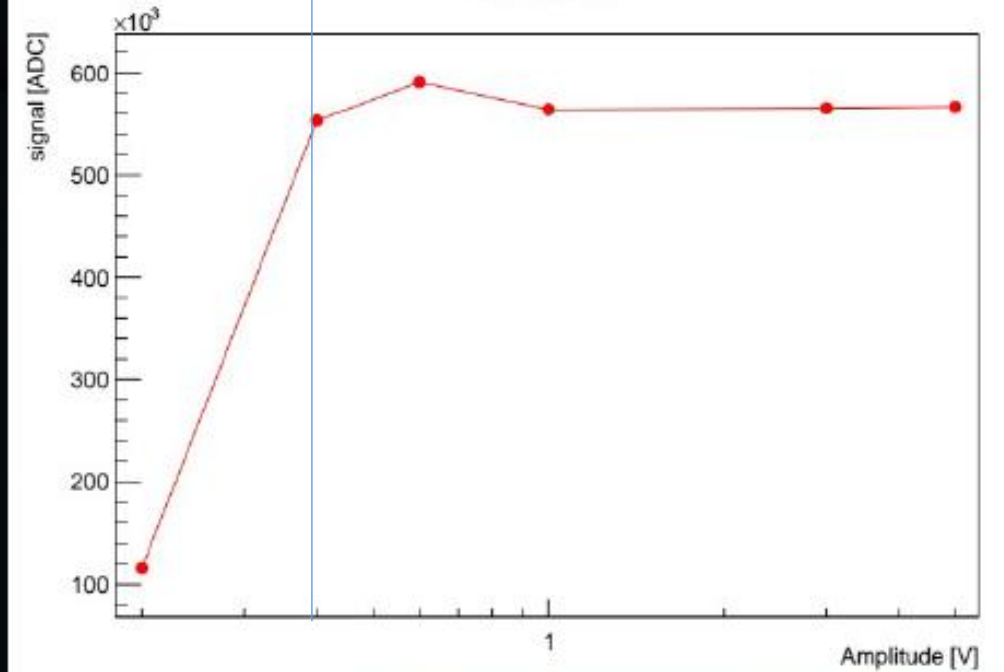
Saturation at 0.4 Volt – 580.000 ADC

Channel 1

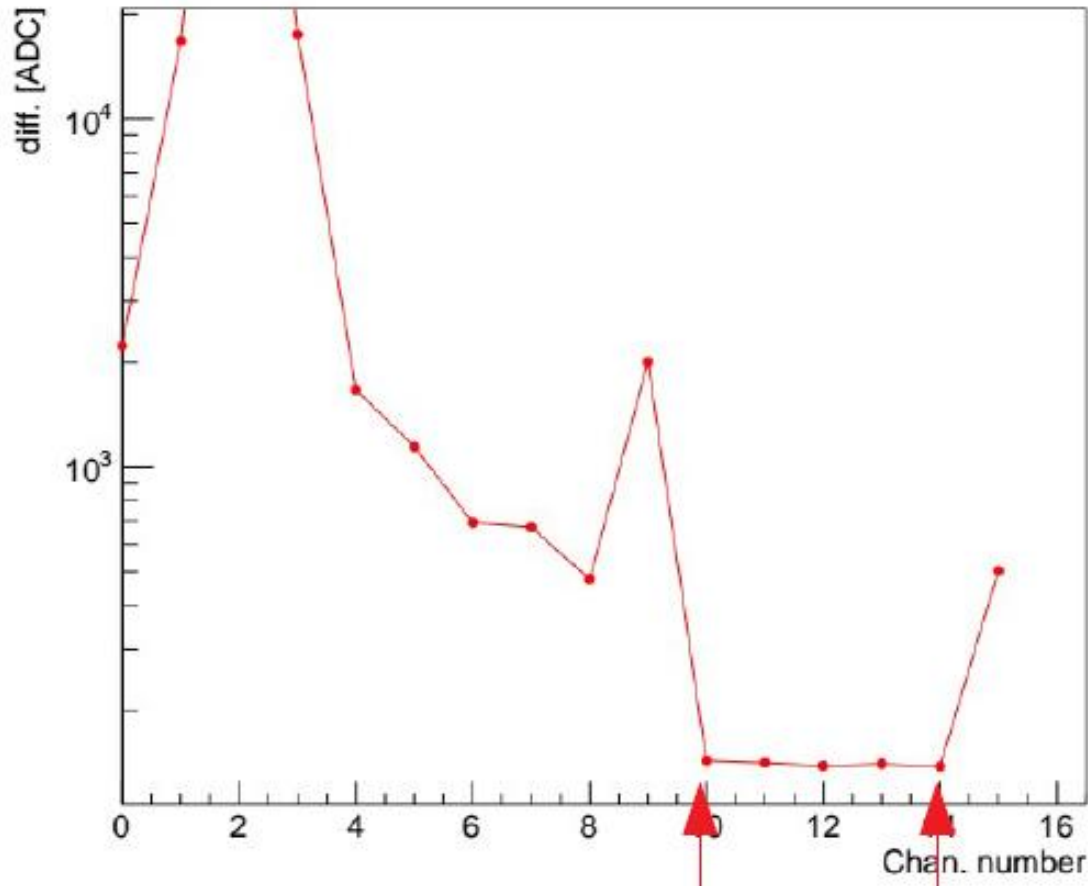


With kapton cable.

Channel 2



Maximum differences



GeV per ADC channel

$\text{GeVsuADC} = \text{Ethreshold} / 580000.$

GeV per Volt

$\text{GeVsuVolt} = \text{Ethreshold} / 0.4$

Energy in a single cube

at which the injection start

$\text{EDepSatCross} = 0.7 * \text{GeVsuVolt} = 437 \text{ TeV}$

(for Ethreshold = 250 TeV)

$\text{EDepSatCross} = 218 \text{ TeV}$

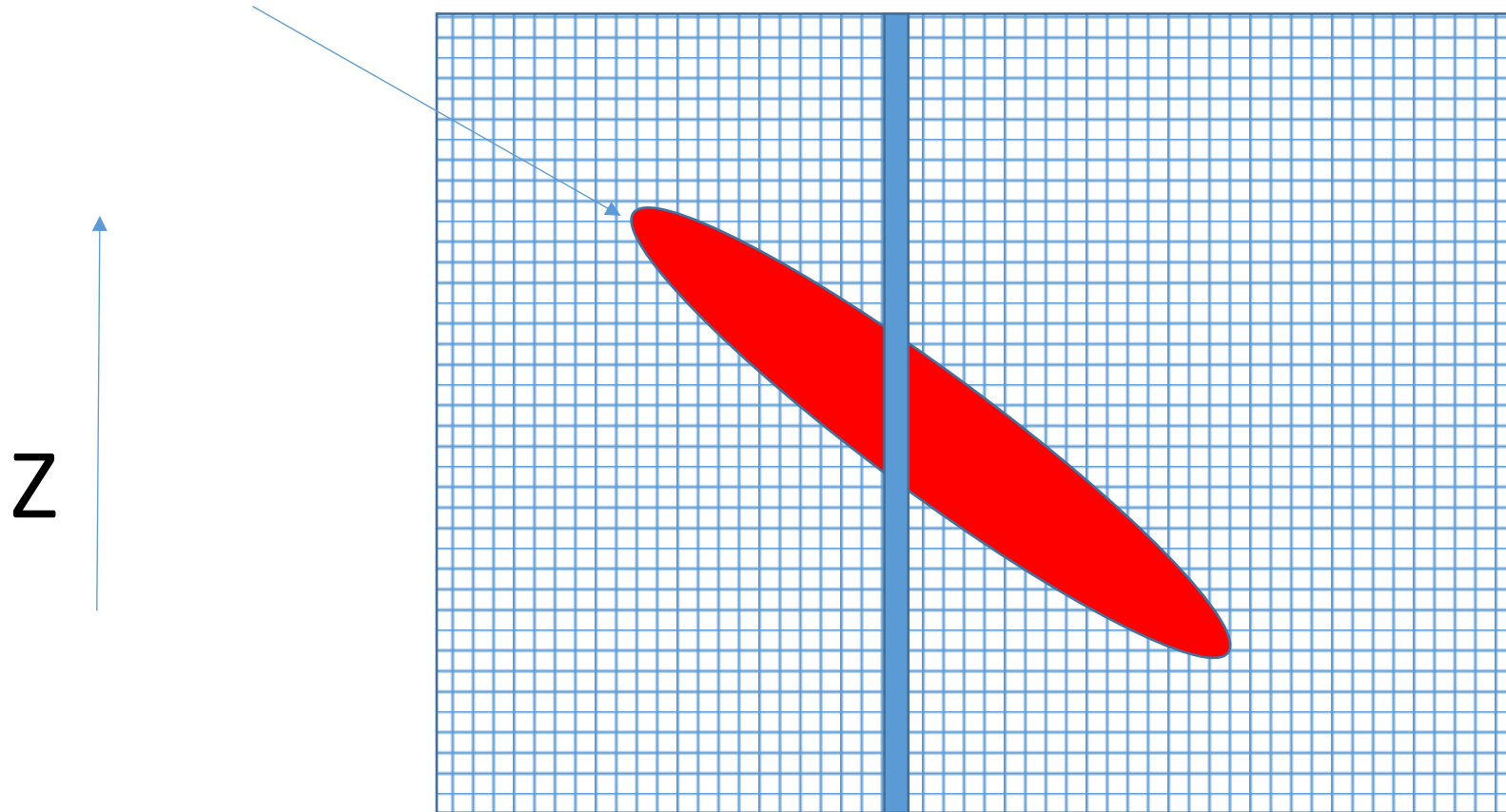
(for Ethreshold = 125 TeV)

Energy at which the injection reach plateau

$\text{EDepPlateau} = 2 * \text{GeVsuVolt} = 1,2 \text{ PeV}$

(for Ethreshold = 250 TeV)

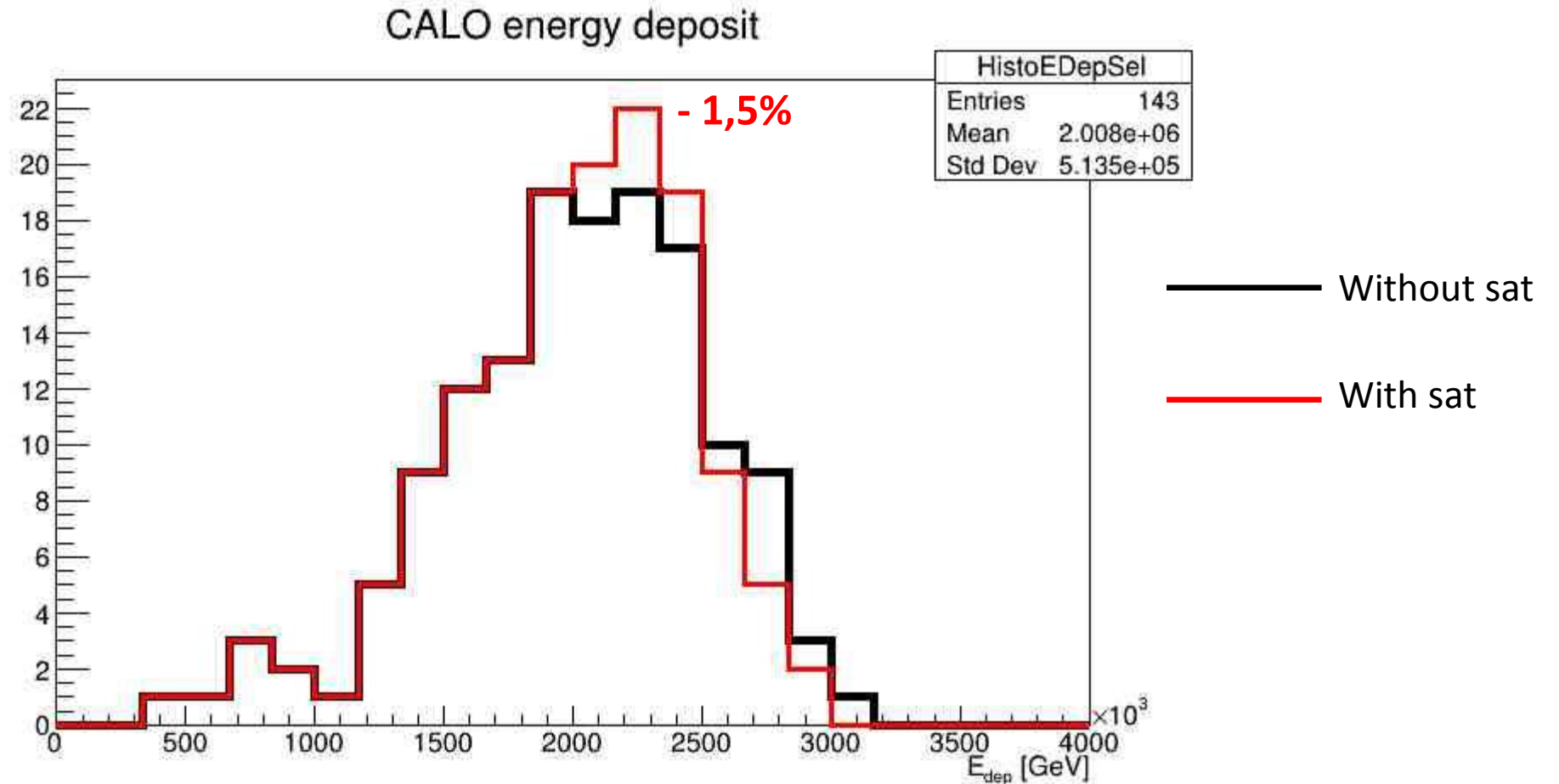
.....



If the injected charge goes in a cube 'without signal' or is greater than $10 \times \text{signal}$ the Channel is 'blinded', its signal content is set = 0

5 PeV protons - saturation Threshold =250 TeV

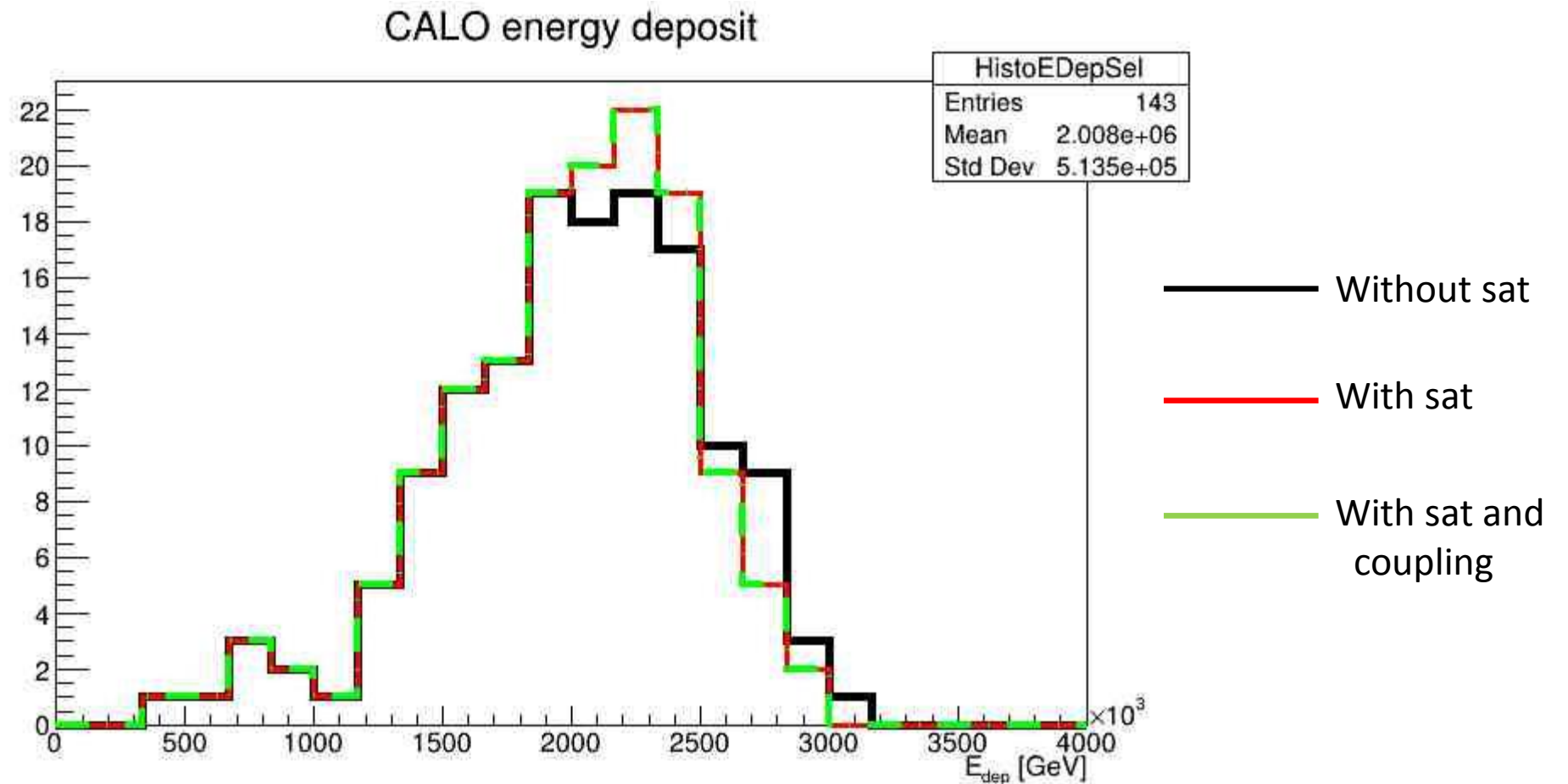
No Coupling



Electrons never saturate the small Photodiodes

5 PeV protons - saturation Threshold =250 TeV

with Coupling

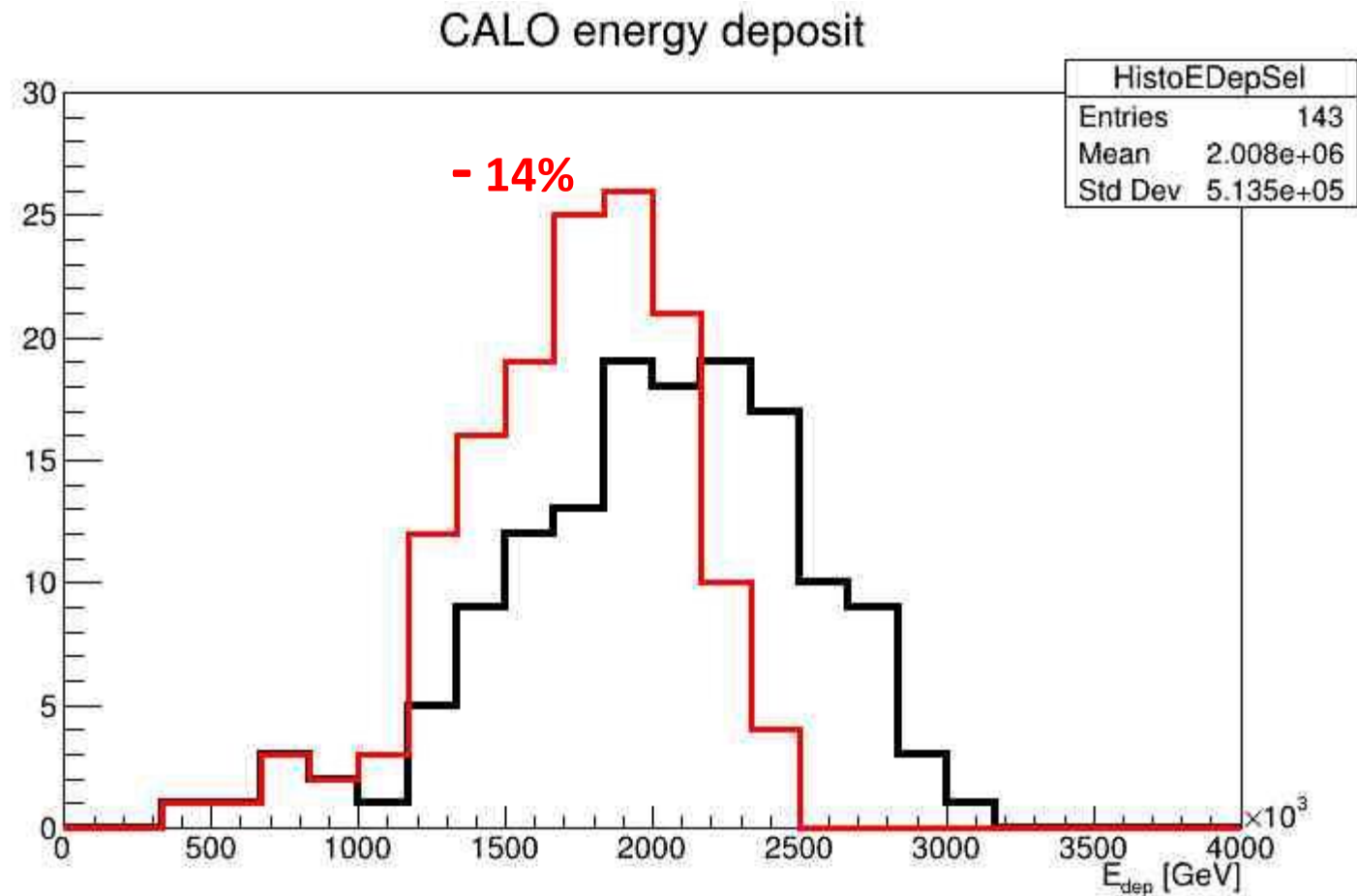


NO CUBE GOES ABOVE

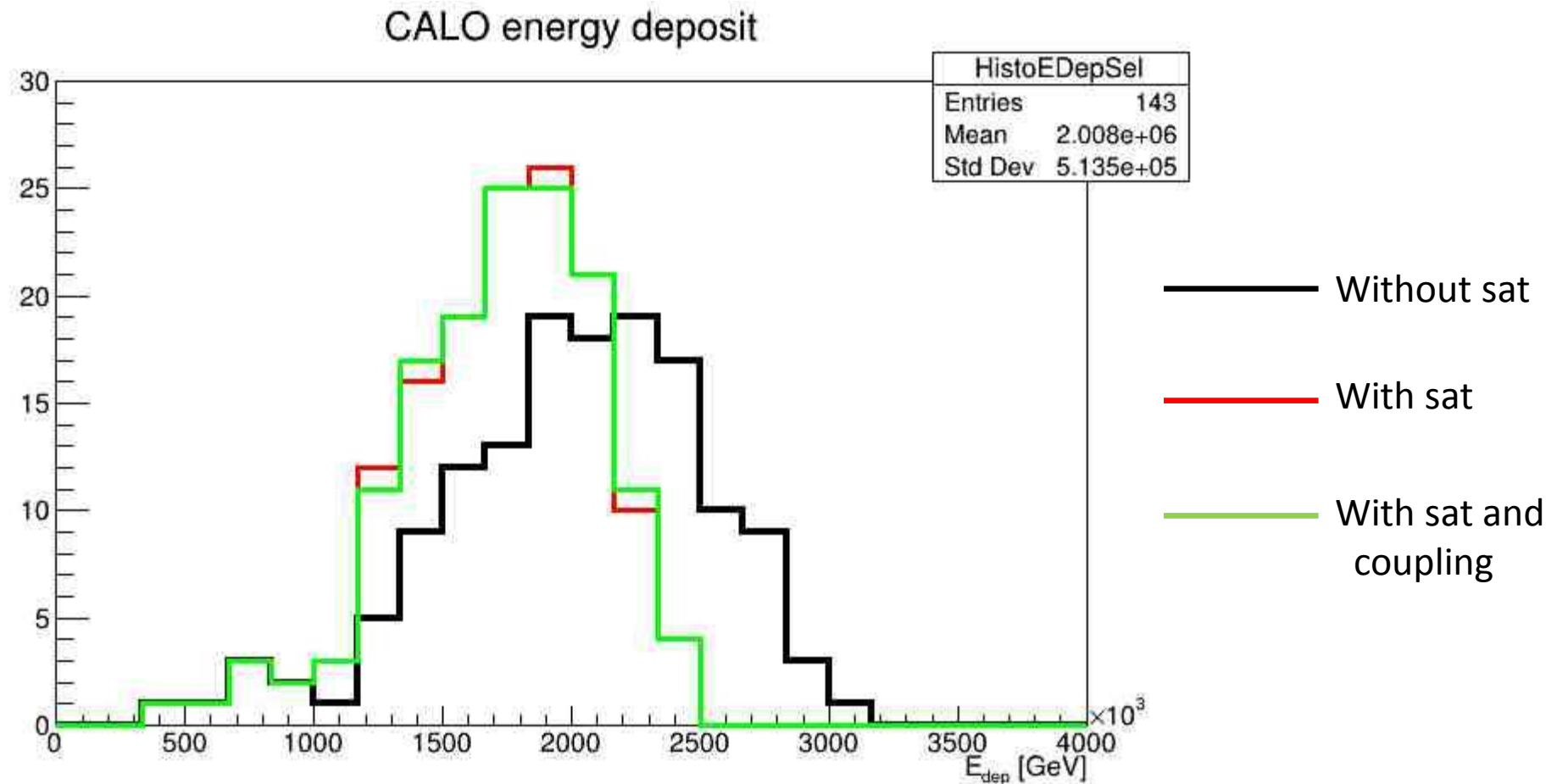
$E_{\text{DepSatCross}} = 0.7 * \text{GeVsuVolt} = 437 \text{ TeV}$

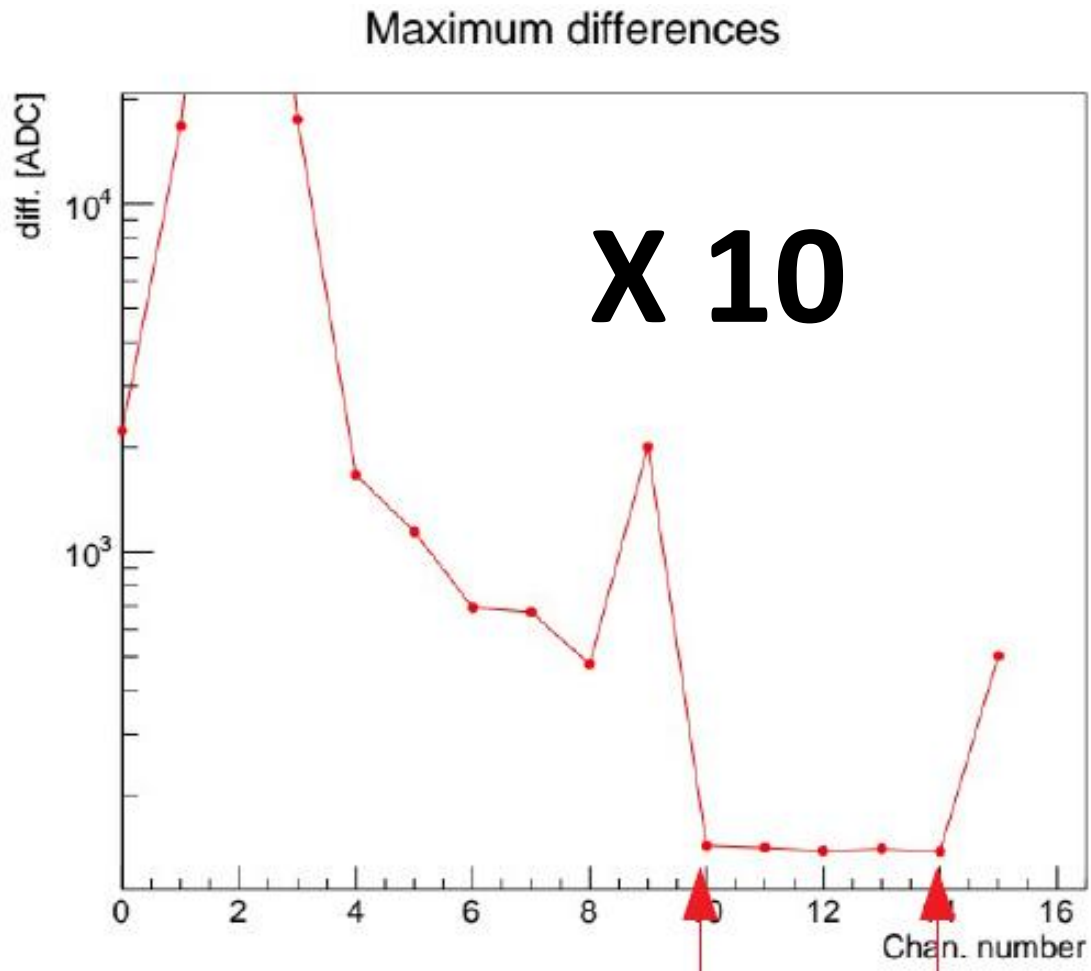
5 PeV protons - saturation Threshold =125 TeV

No Coupling



5 PeV protons - saturation Threshold =125 TeV with Coupling





GeV per ADC channel

$\text{GeVsuADC} = \text{Ethreshold} / 580000.$

GeV per Volt

$\text{GeVsuVolt} = \text{Ethreshold} / 0.4$

Energy in a single cube

at which the injection start

$\text{EDepSatCross} = 0.7 * \text{GeVsuVolt} = 437 \text{ TeV}$

(for Ethreshold = 250 TeV)

$\text{EDepSatCross} = 218 \text{ TeV}$

(for Ethreshold = 125 TeV)

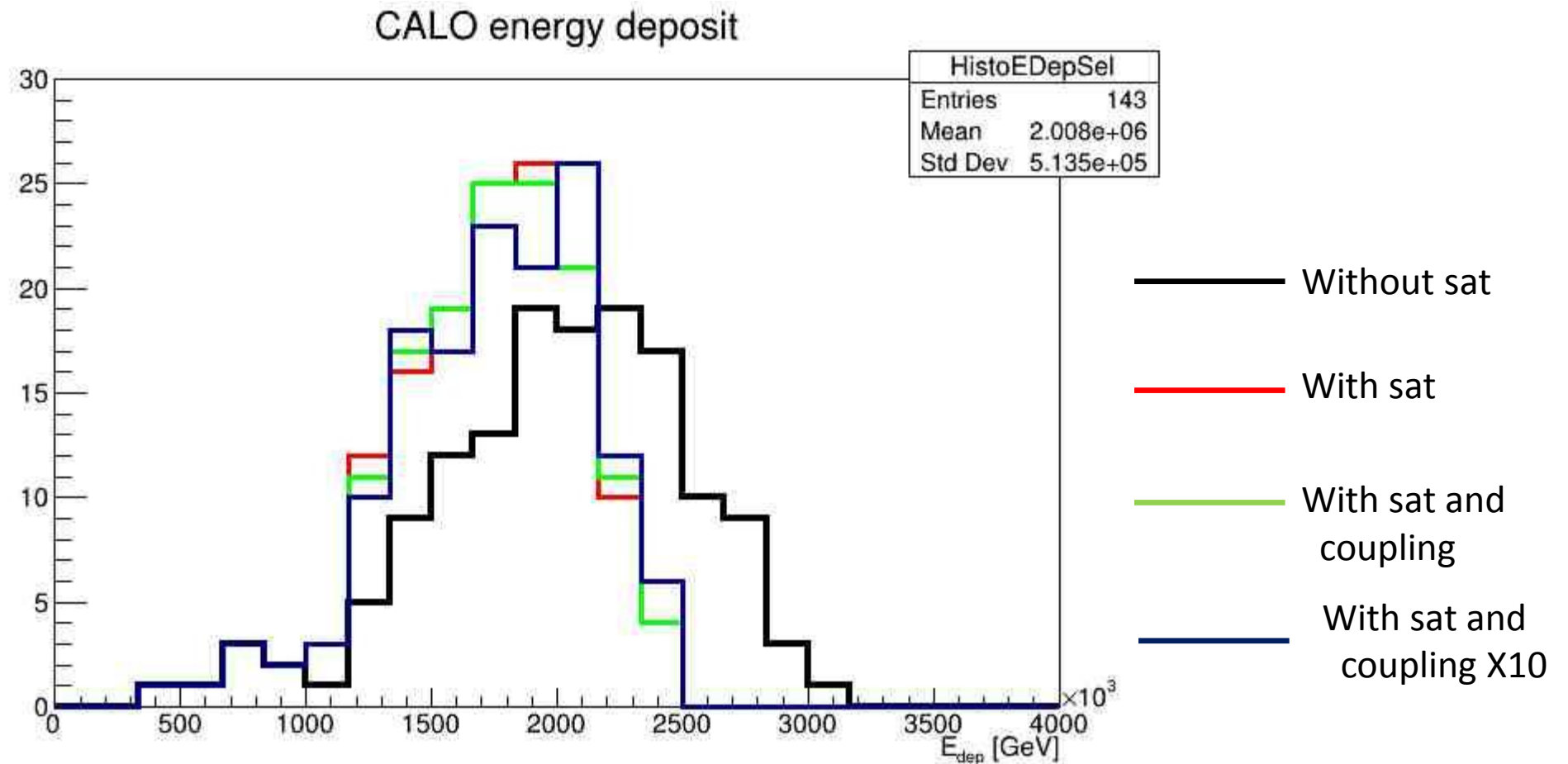
Energy at which the injection reach plateau

$\text{EDepPlateau} = 2 * \text{GeVsuVolt} = 1,2 \text{ PeV}$

(for Ethreshold = 250 TeV)

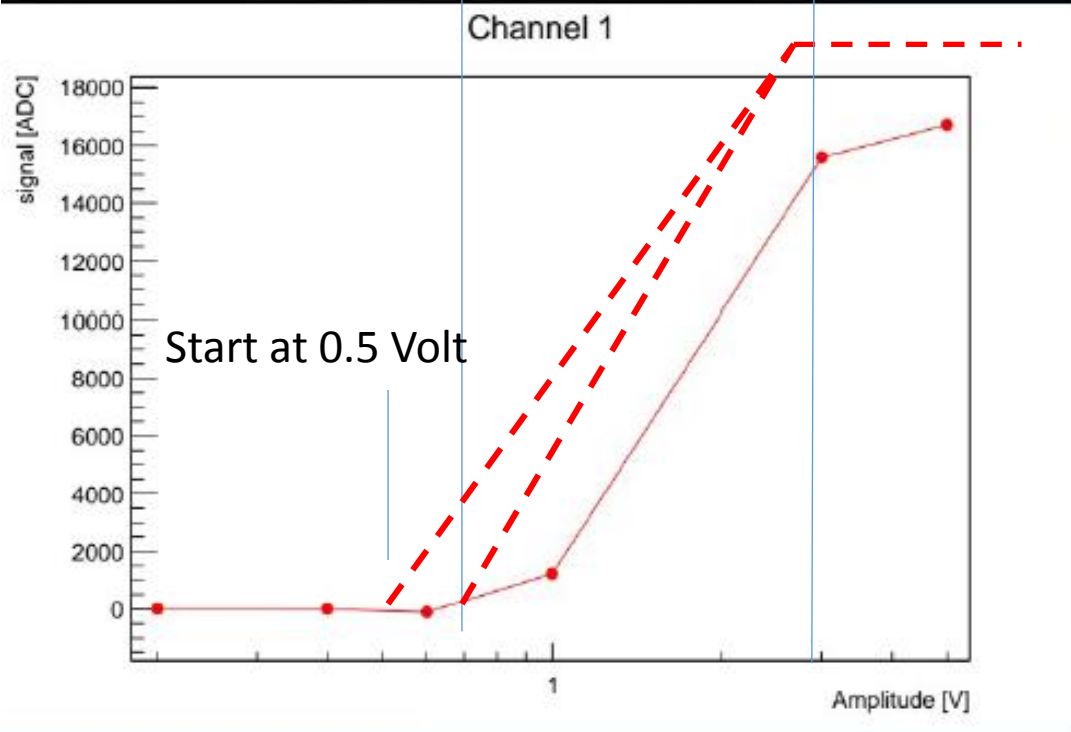
.....

5 PeV protons - saturation Threshold =125 TeV with Coupling



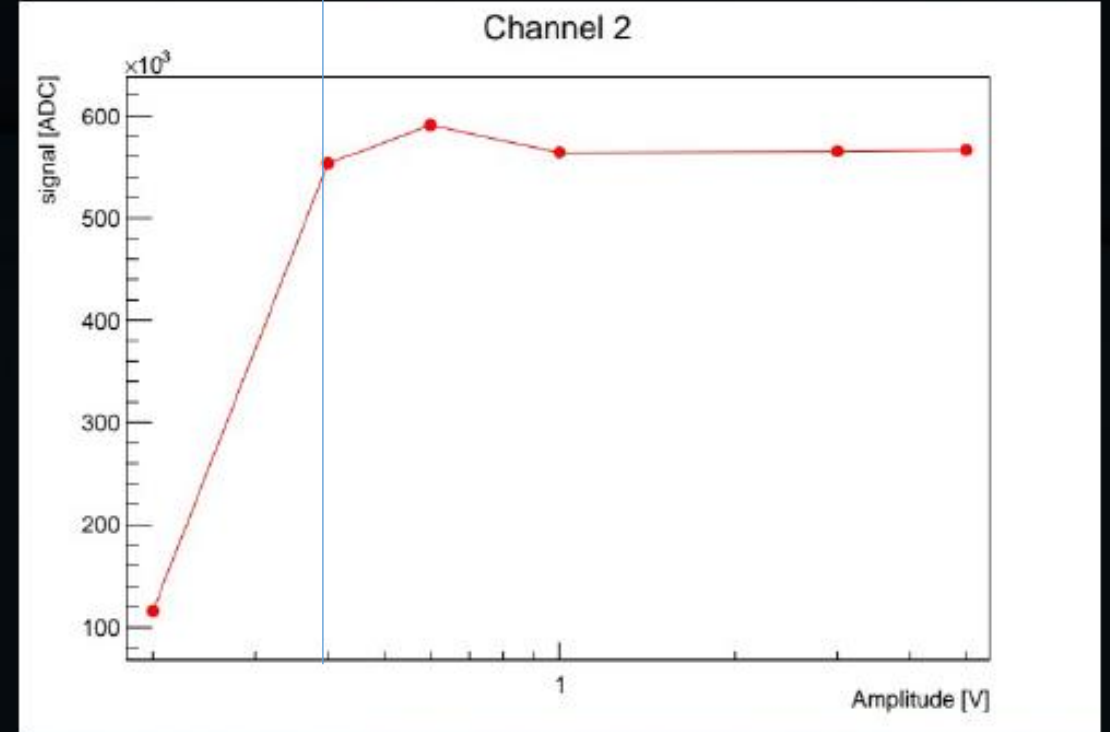
Injection for Channel2>0.7 Volt

Plateau reached at 2 Volt

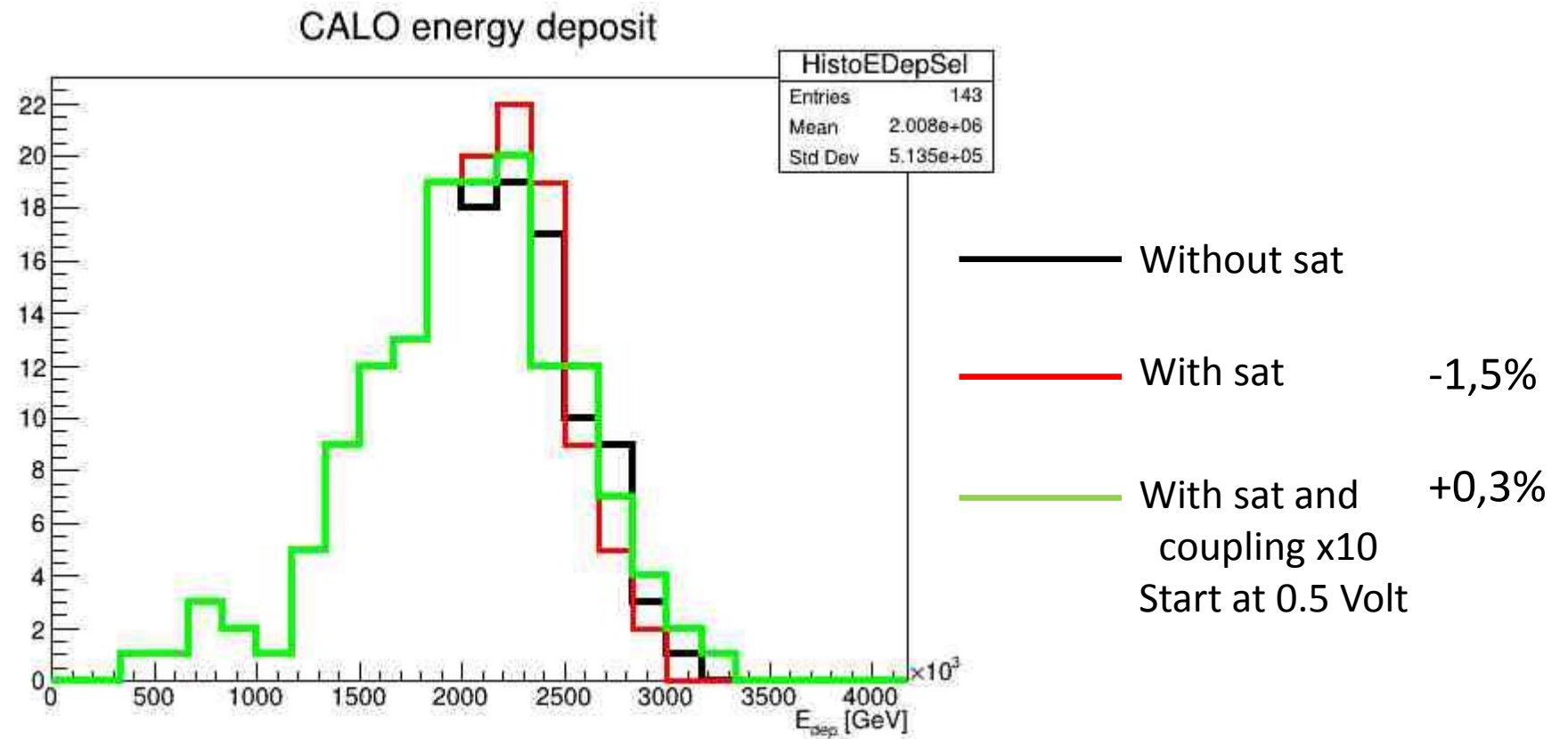


Saturation at 0.4 Volt – 580.000 ADC

With kapton cable.



5 PeV protons - saturation Threshold =250 TeV with Coupling



5 PeV protons - saturation Threshold =50 TeV

