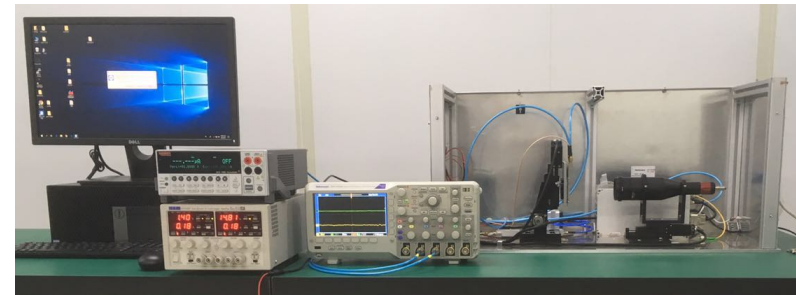
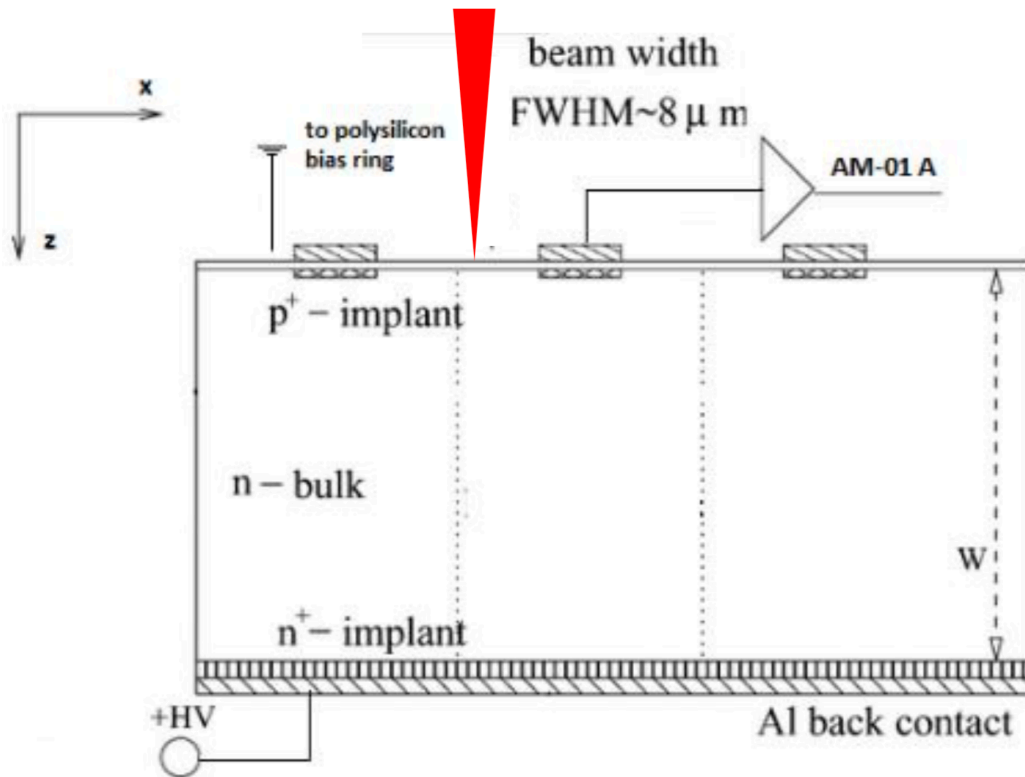


Status of TCT test for NDL sensor

Yuzhen Yang, Suyu Xiao
Thanks Liejian, Zhijun et. al
2019.6.20

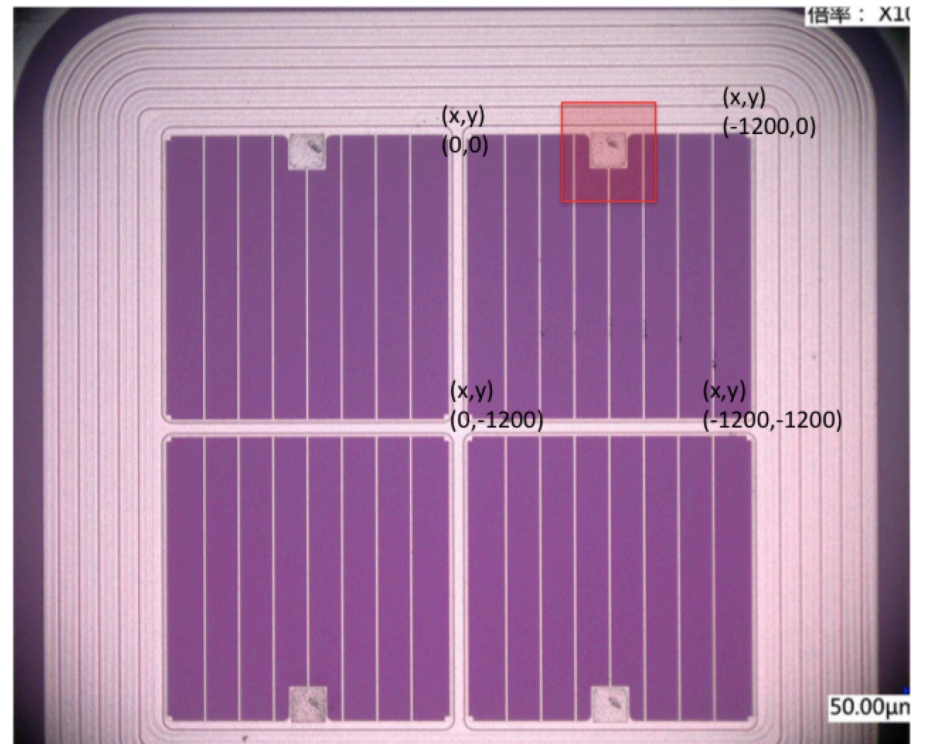
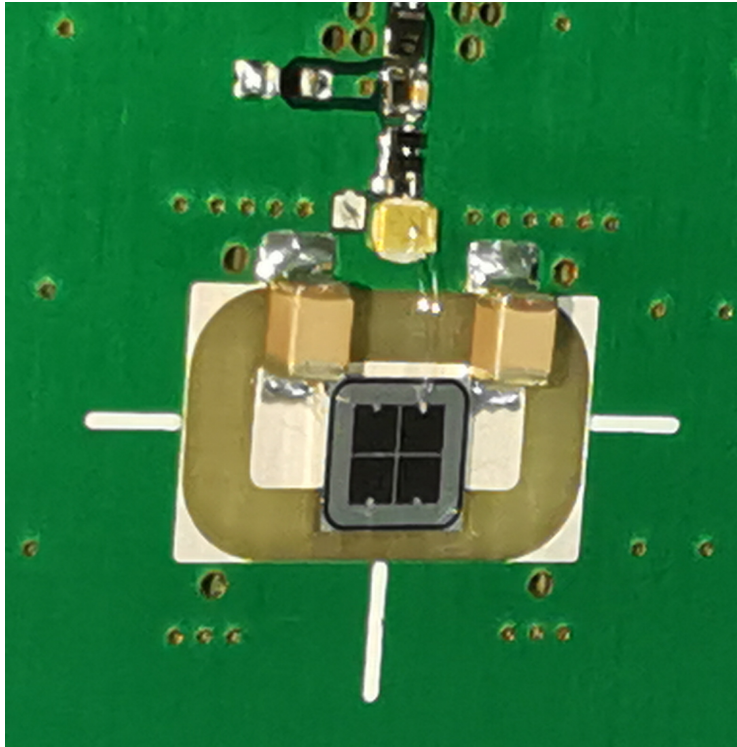
Top TCT tuning

- Transient current technique (TCT)
- To understand the irradiation effect by measuring surface and depleted zone



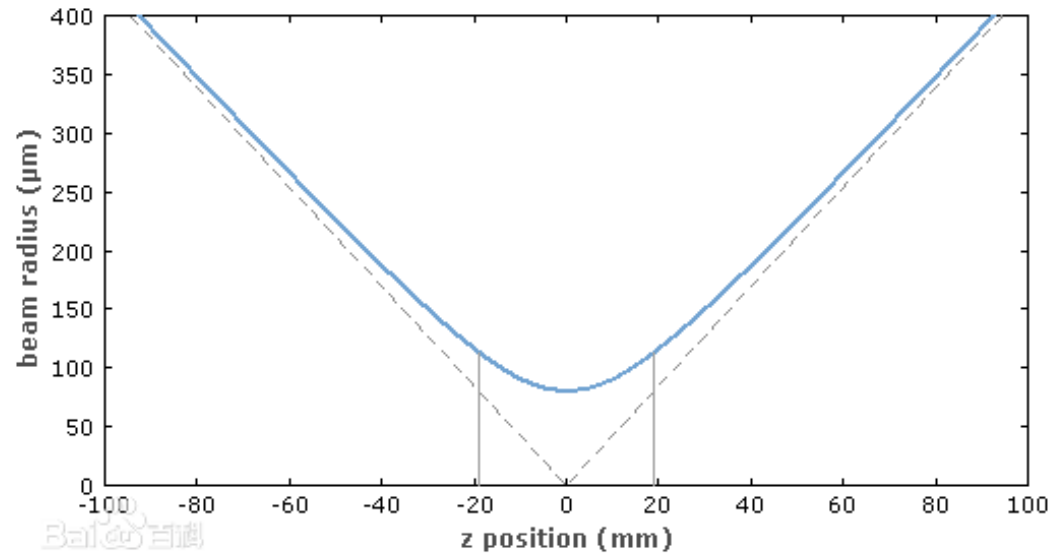
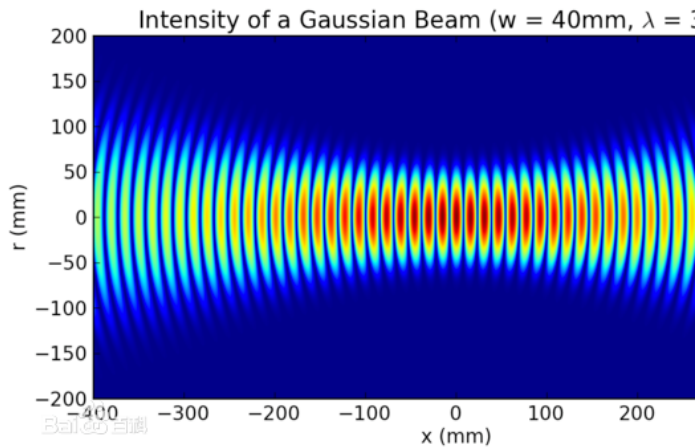
- Finish wire bonding:
- NDL BV60, BV170
- HPK W18-SE5
- NDL-9, NDL-10 (2 pcs), NDL-5

NDL BV60



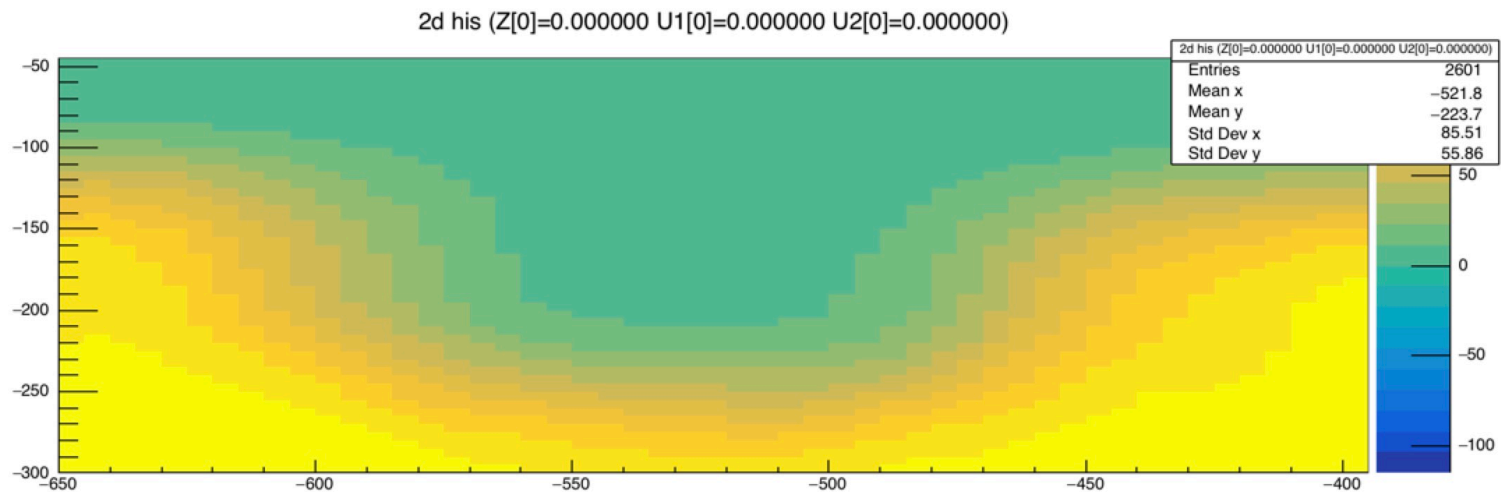
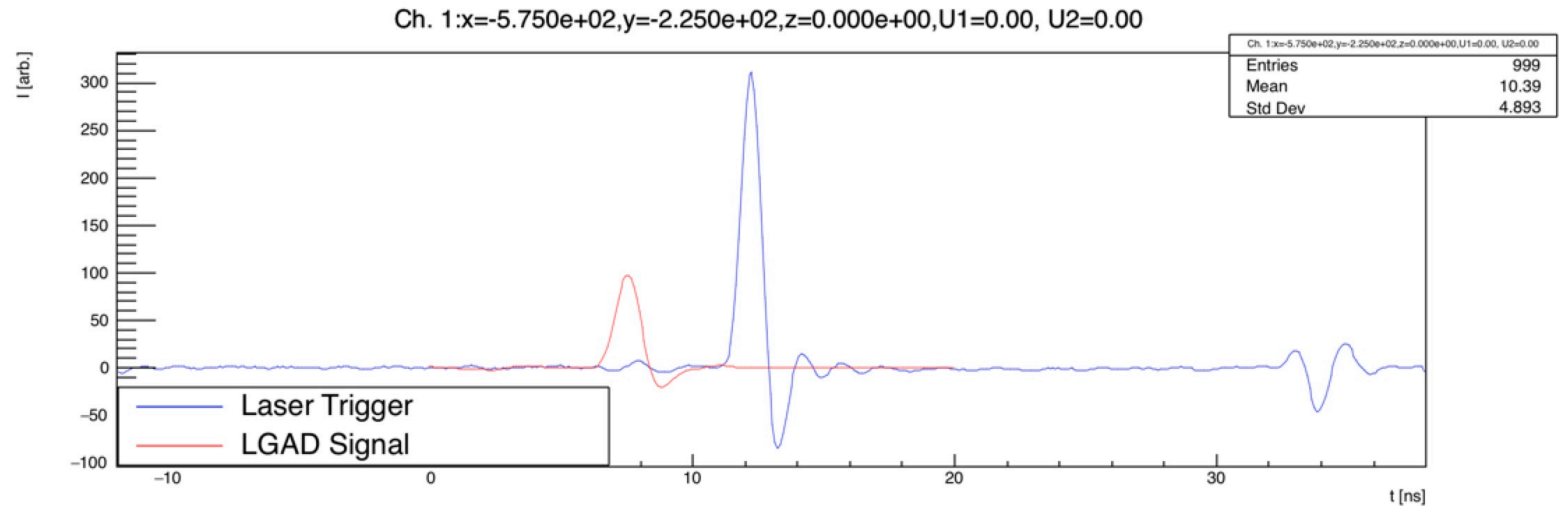
<http://particulars.si/TCTAnalyse/TCTAnalyse-Downloads.html>

Gaussian Beam



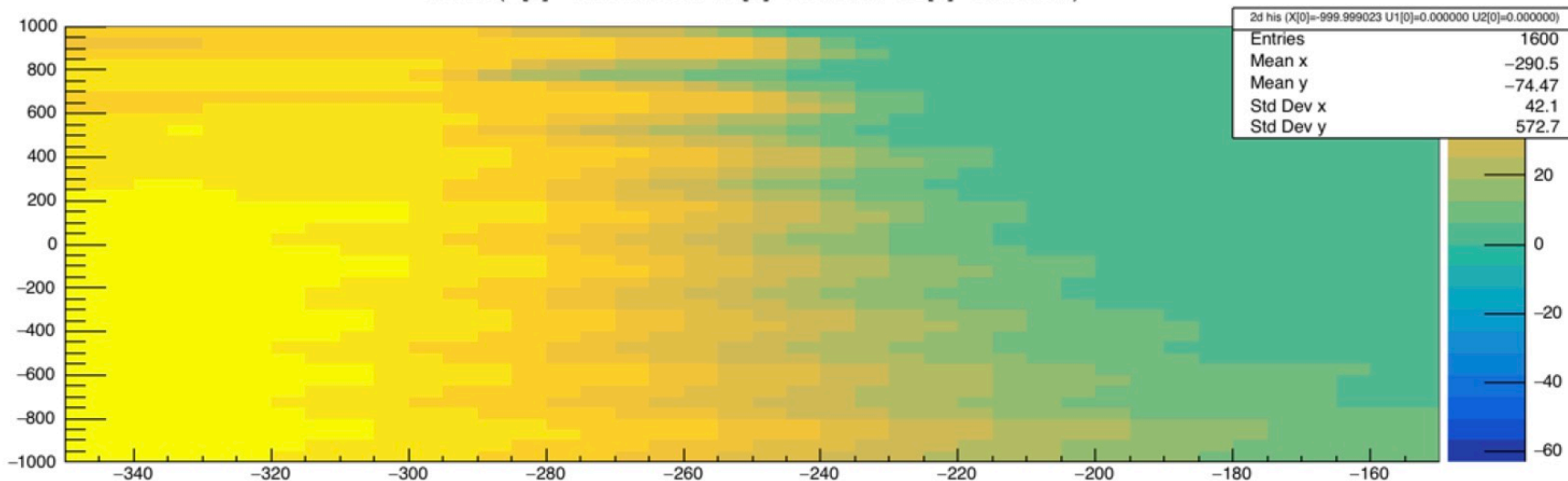
So need to adjust z as focus distance.

Scan xy surface

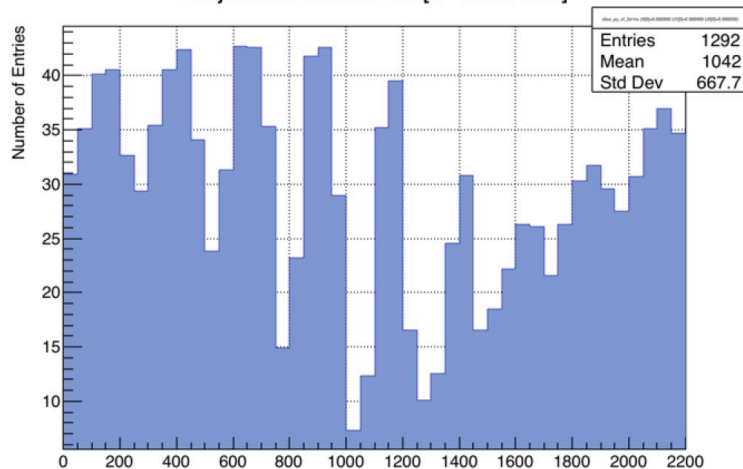


Scan yz surface for focus

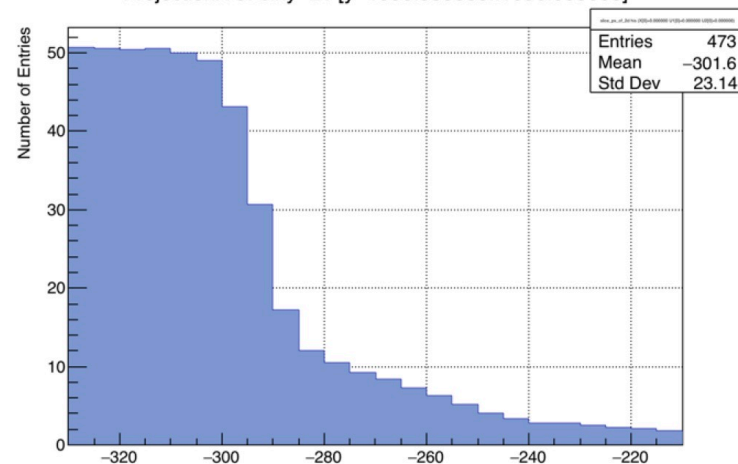
2d his (X[0]=-999.999023 U1[0]=0.000000 U2[0]=0.000000)



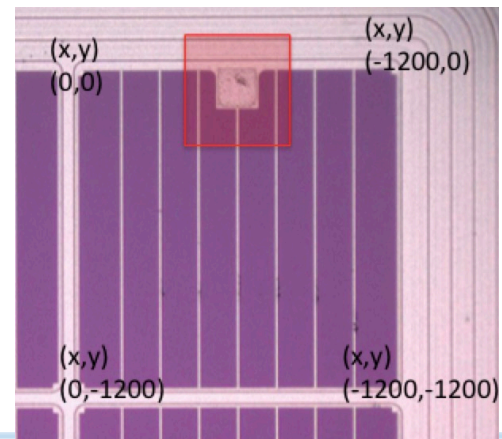
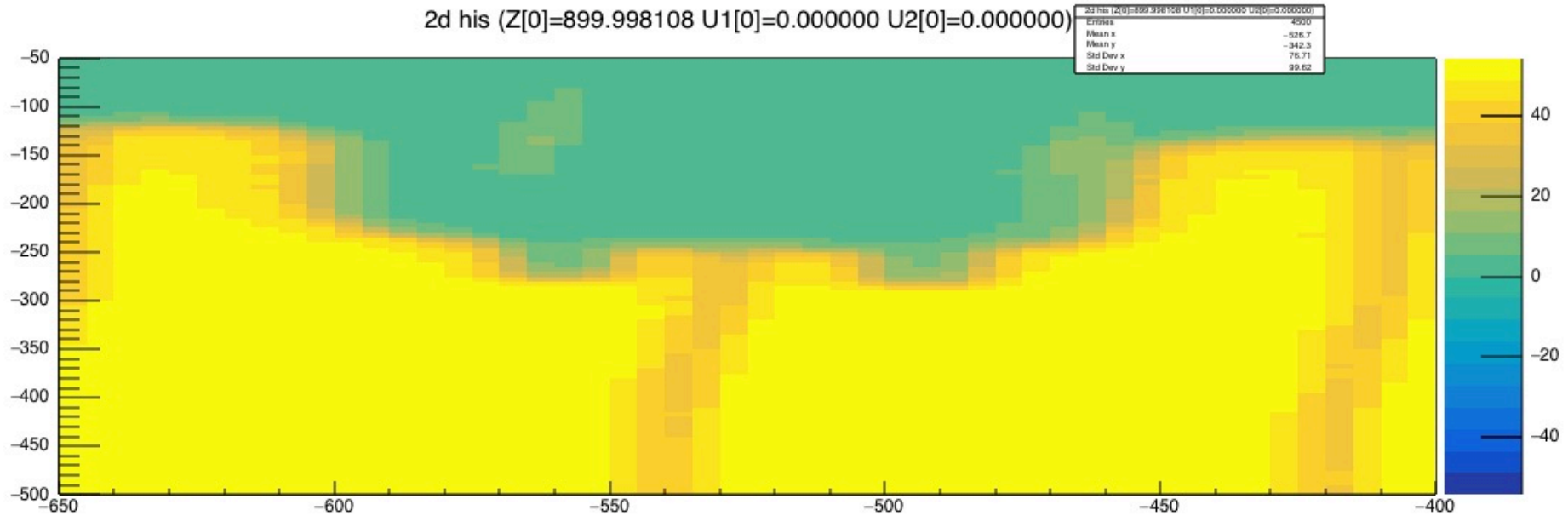
ProjectionY of binx=28 [x=-265..-260]



ProjectionX of biny=21 [y=1000.000000..1050.000000]



Scan xy surface with focus of laser



Plan

- Scan the whole input surface of NDL sensor
- Setup the edge-TCT