

Long Flawless stave

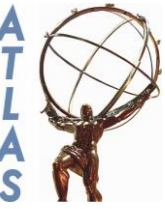
Jie Yu

Iowa State University

Stave QC discussion, Jan.18.2017

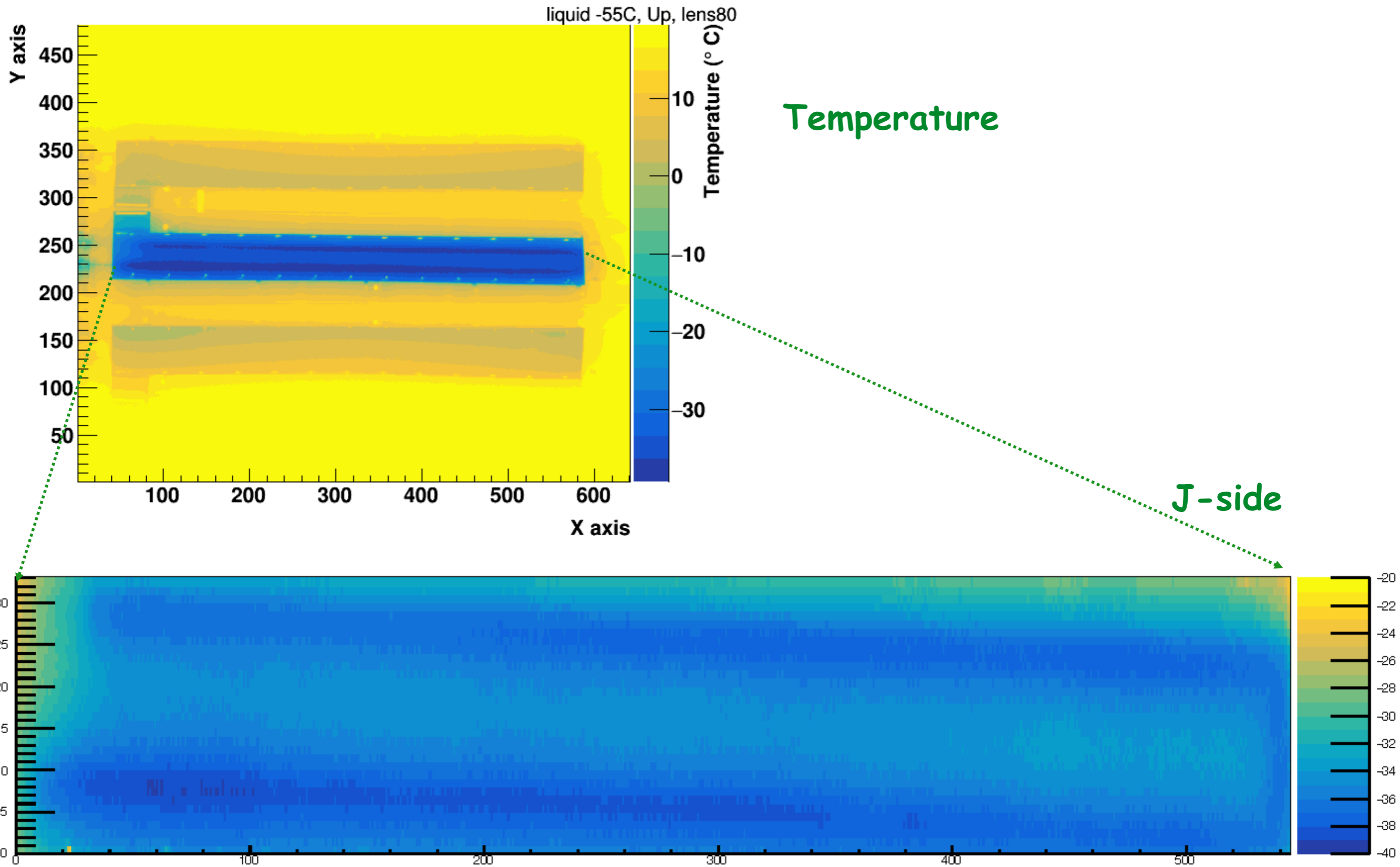


Outline

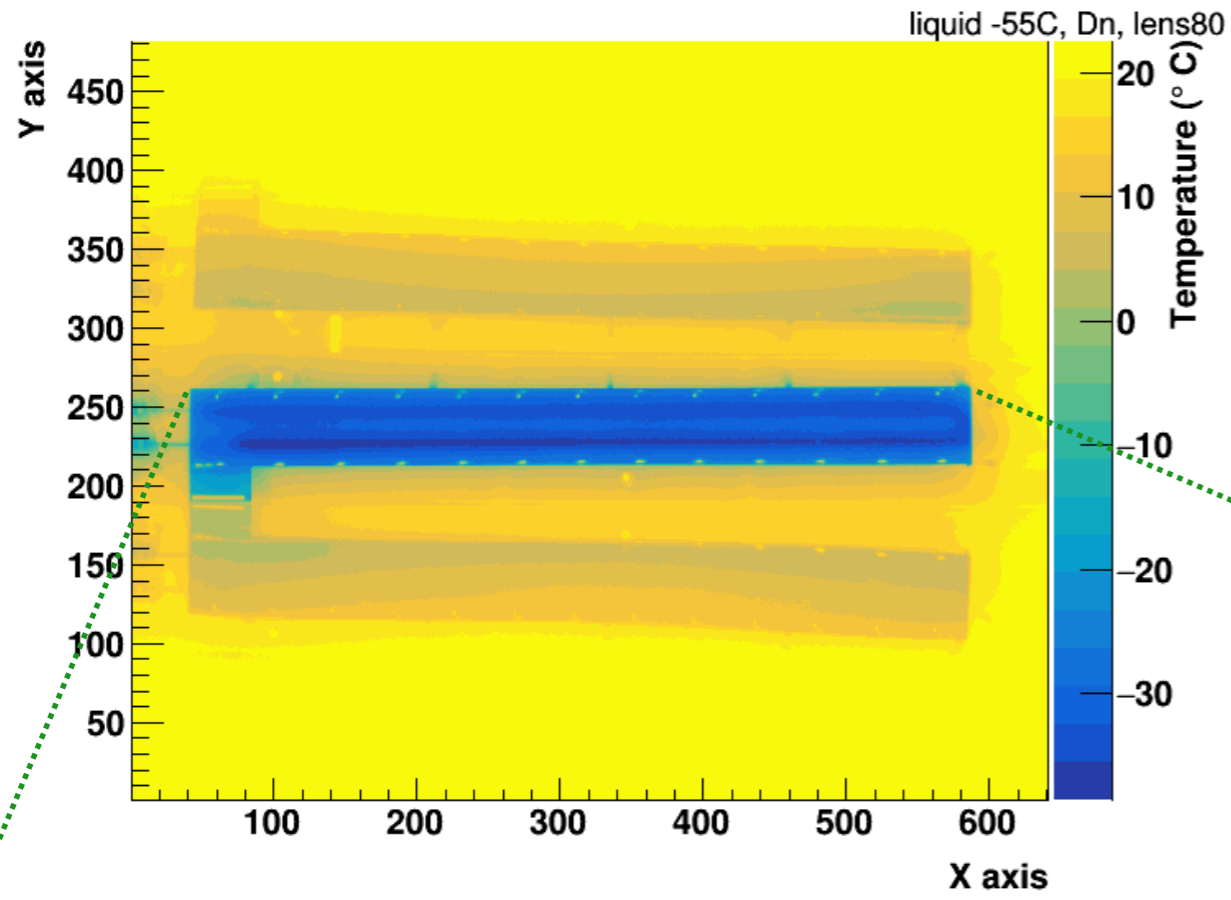


- With Will, we took following two sets of data.
- Flawless stave.
 - ✦ Chiller at $-55\text{ C} - 50\text{ C}$, every 5 C
 - ✦ Emissivity = 0.9 after data taking.
- Flaw stave.
 - ✦ With or without pressure of 5 psi .

T=-55 C, J-side

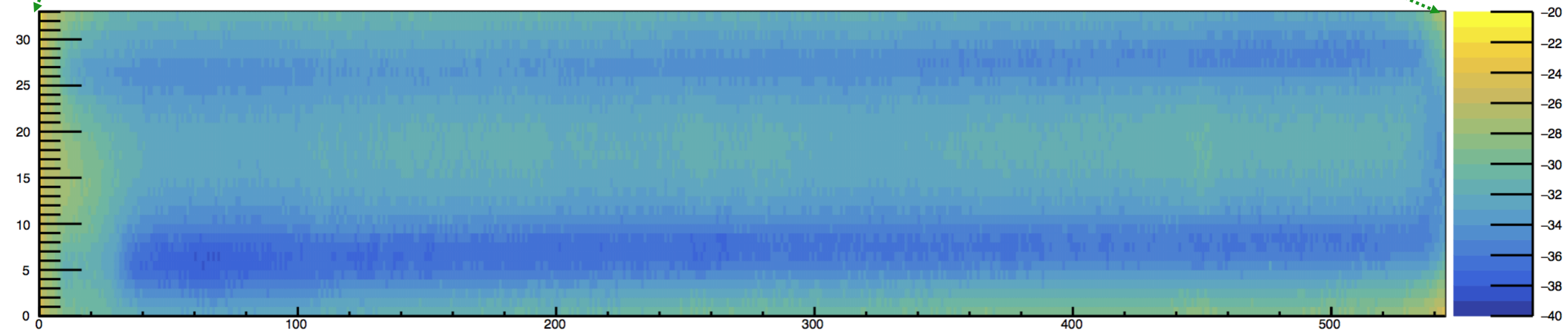


T=-55 C, L-side

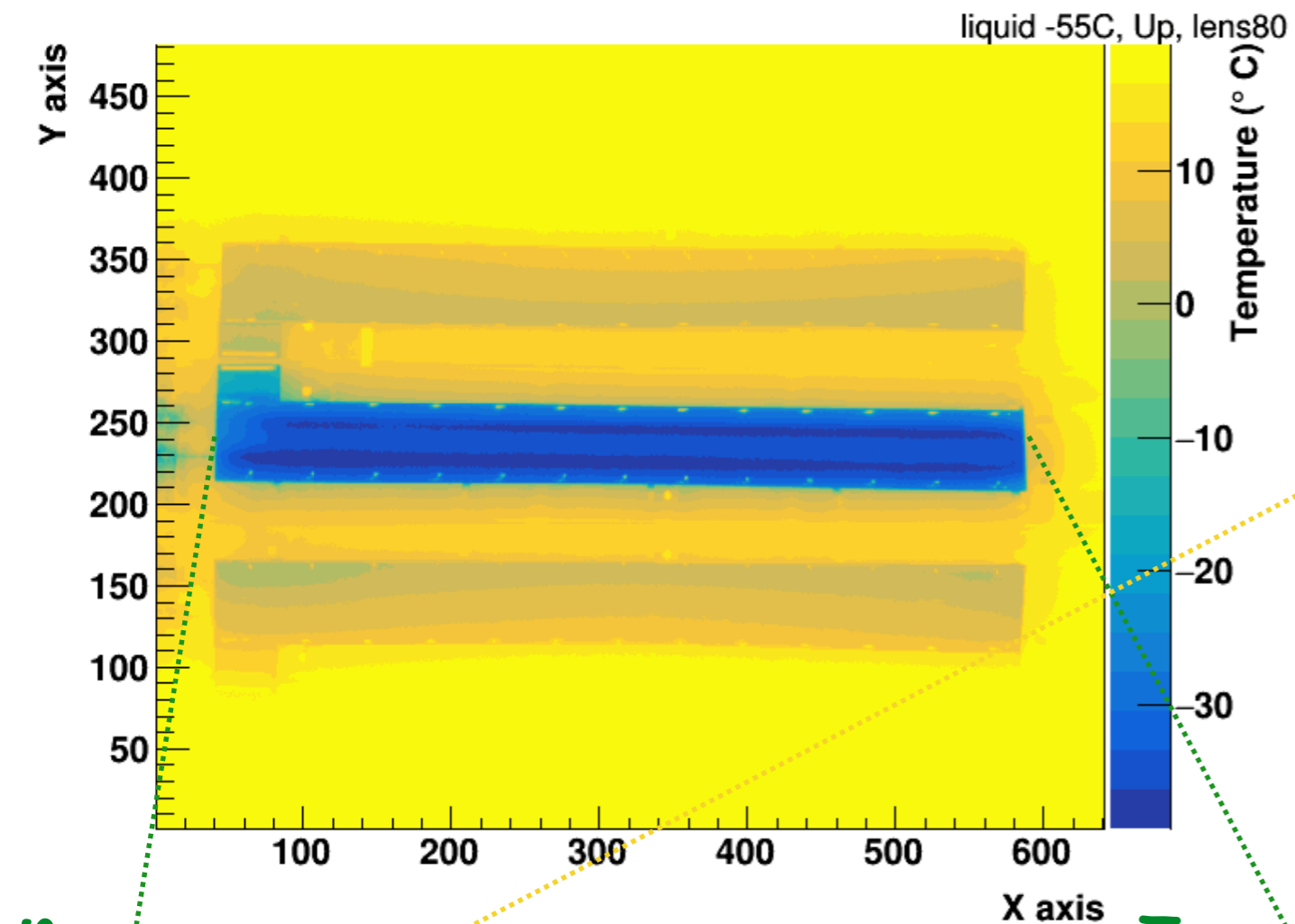
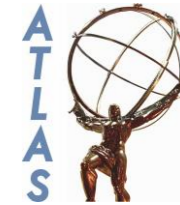


Temperature

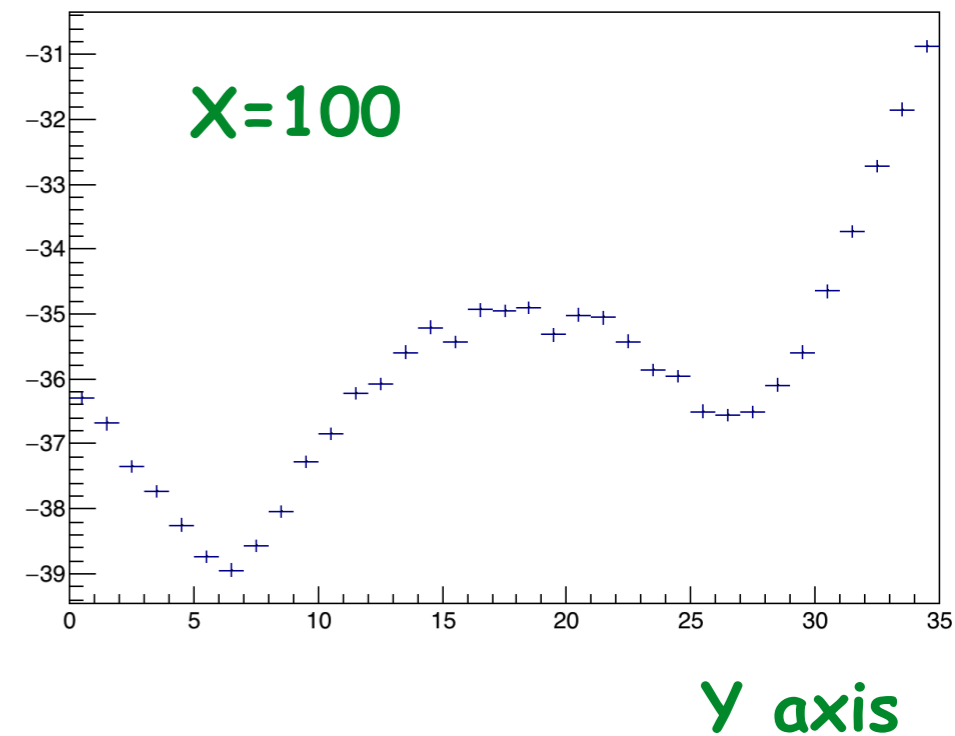
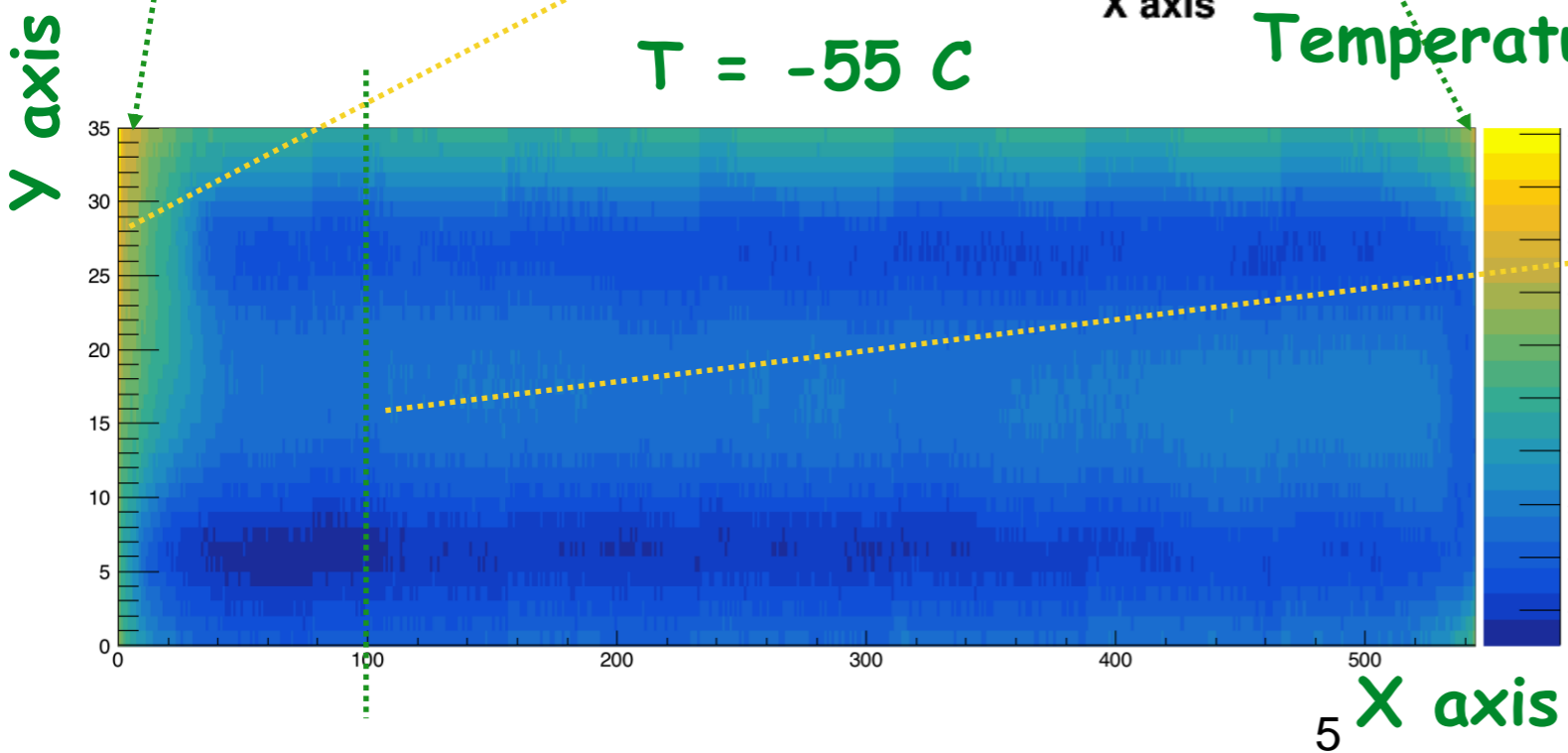
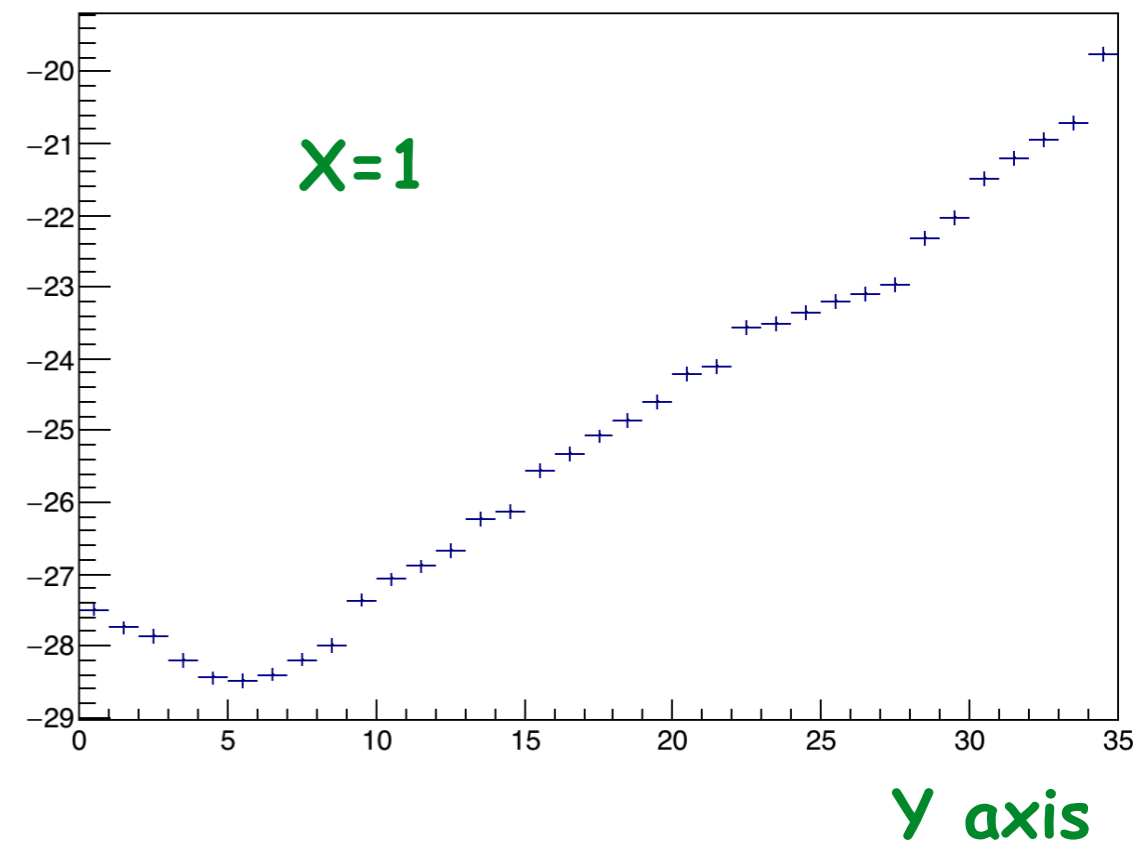
L-side



T = -55 C



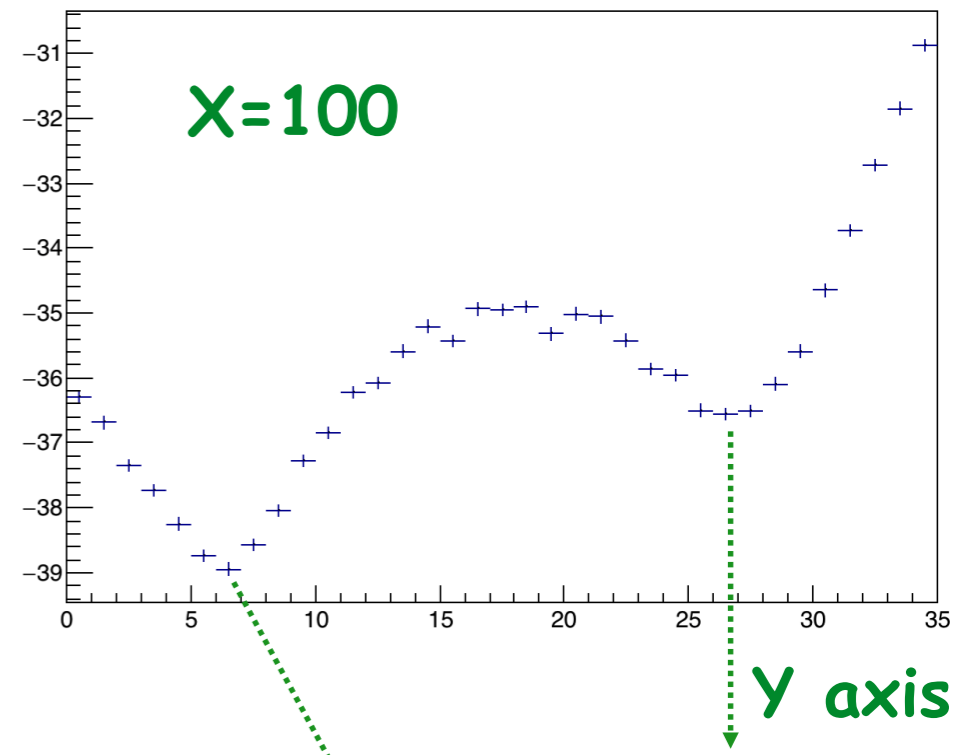
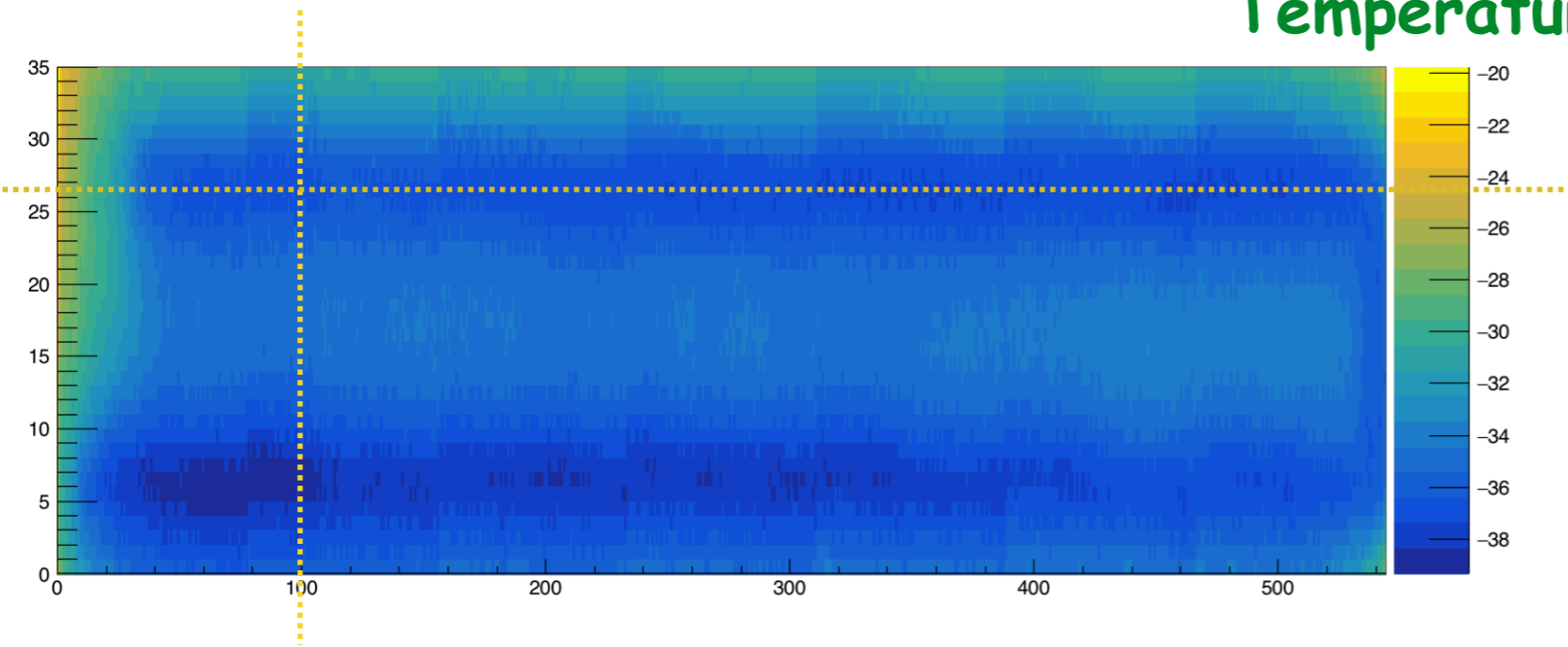
Temperature



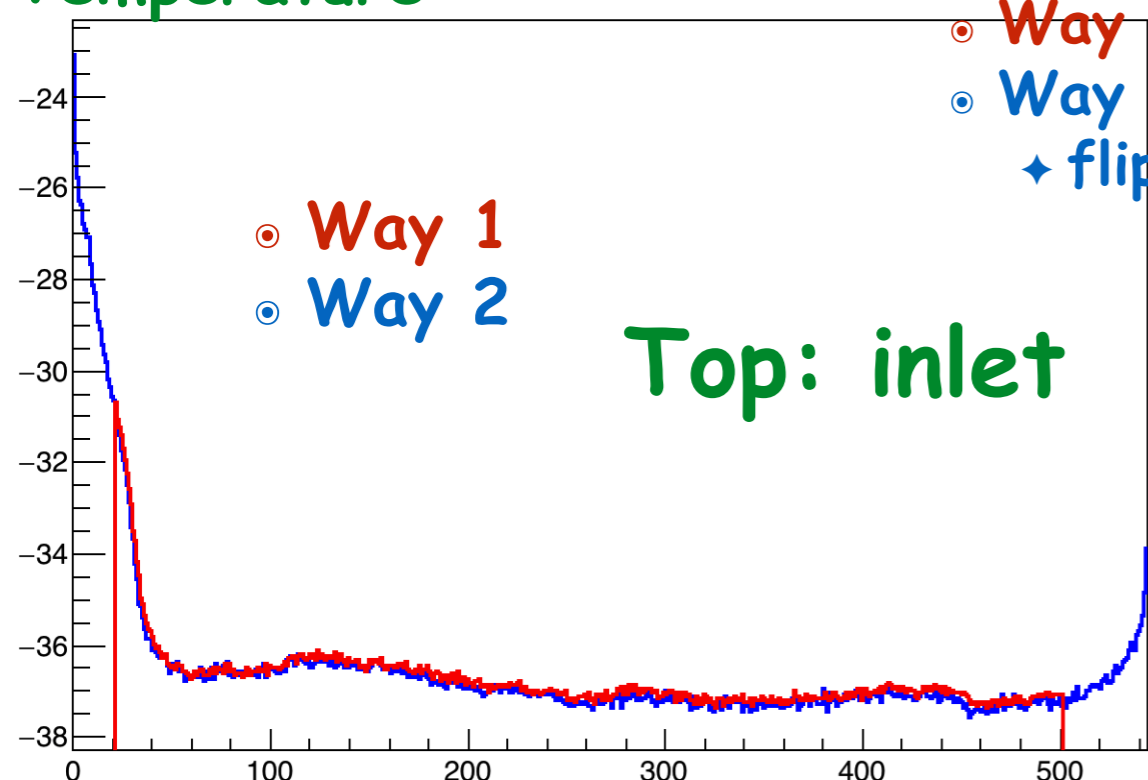
T=-55 C



Temperature



Temperature

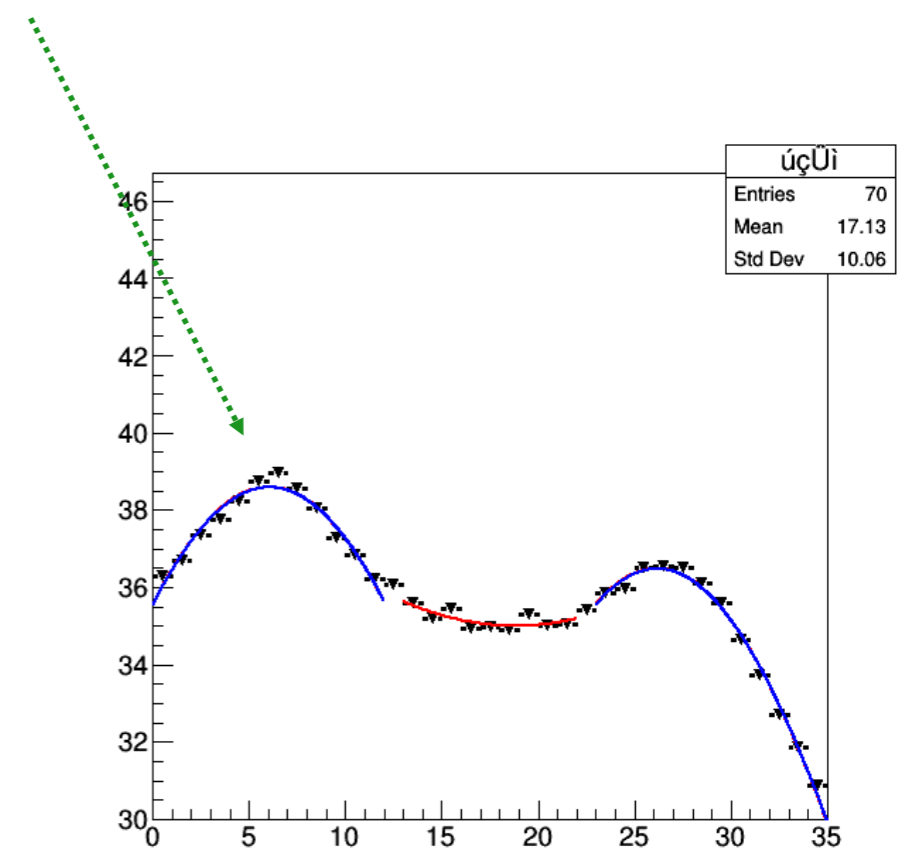


- Way 1: average over 3 pixels $Y=6 - 8$ and $Y=26 - 28$
- Way 2: fit to have the peak.
 - flip and fit gaussian.

Top: inlet

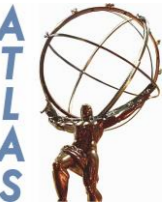
fitting doesn't work around edges.

X axis



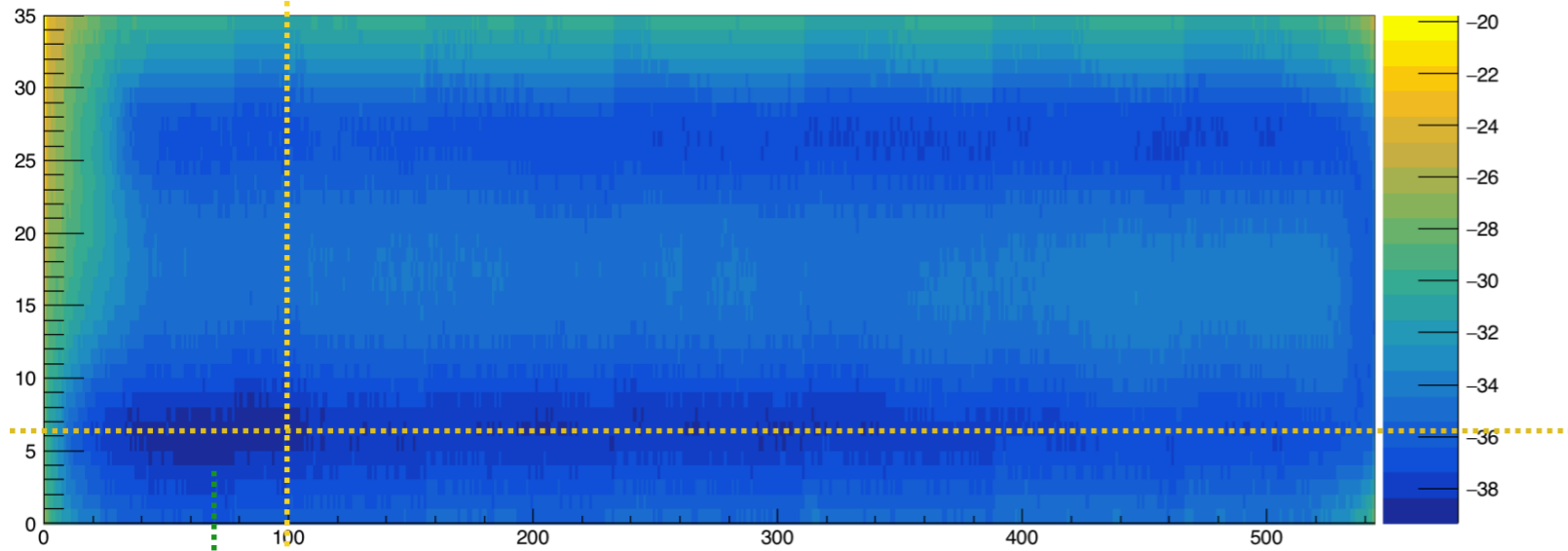
úçÜi	
Entries	70
Mean	17.13
Std Dev	10.06

$T = -55\text{ C}$



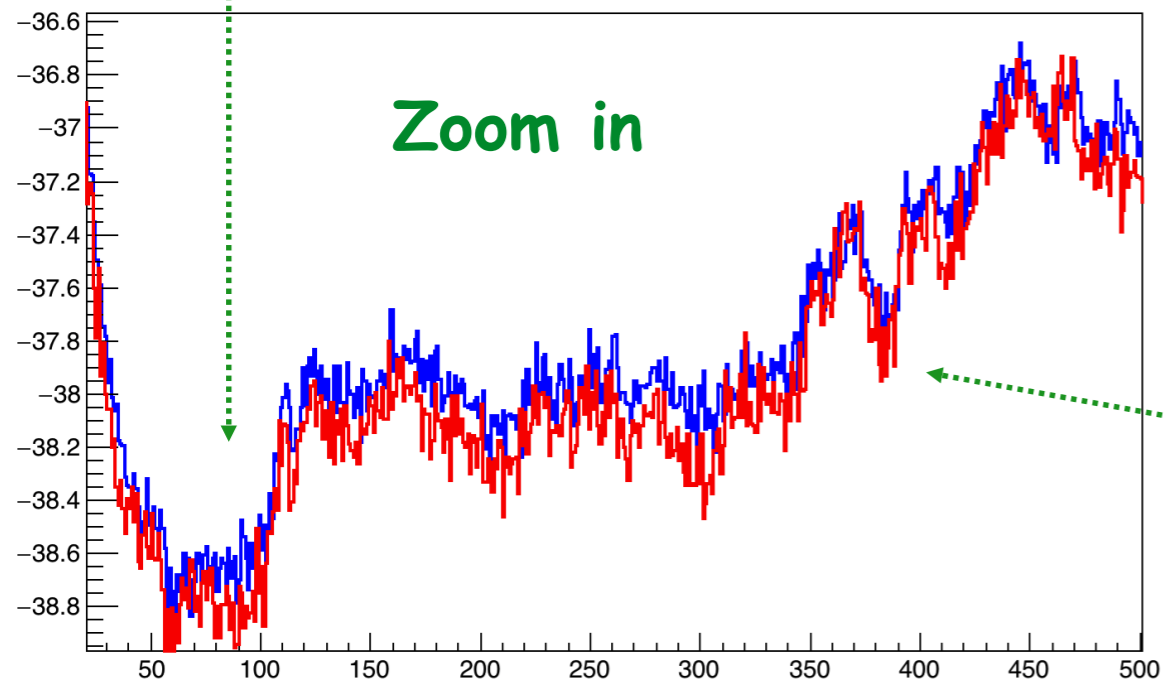
$T = -55\text{ C}$

Temperature

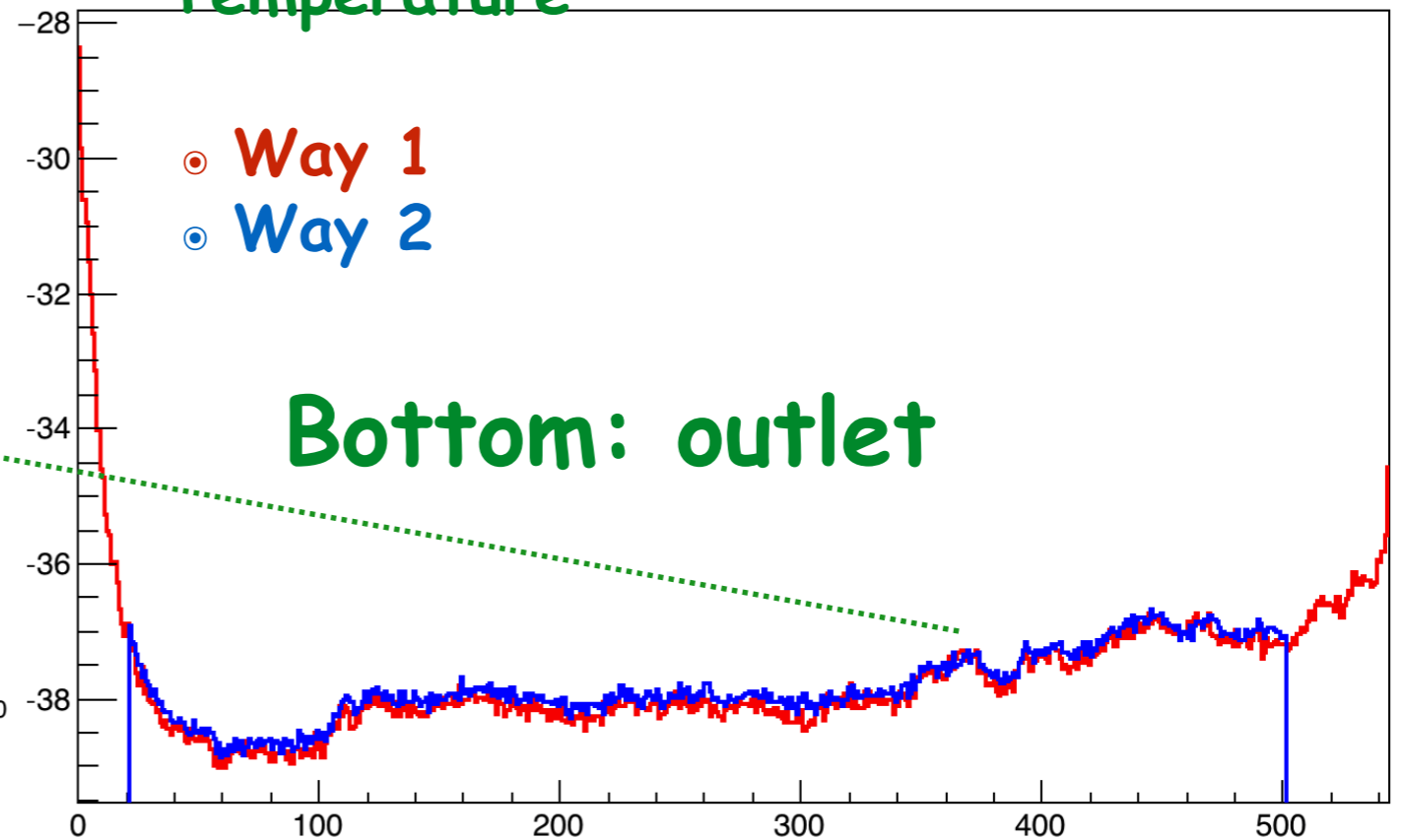


- Way 1: average over 3 pixels $Y=6 - 8$ and $Y=26 - 28$
- Way 2: fit to have the peak.
✦ flip and fit gaussian.

Zoom in



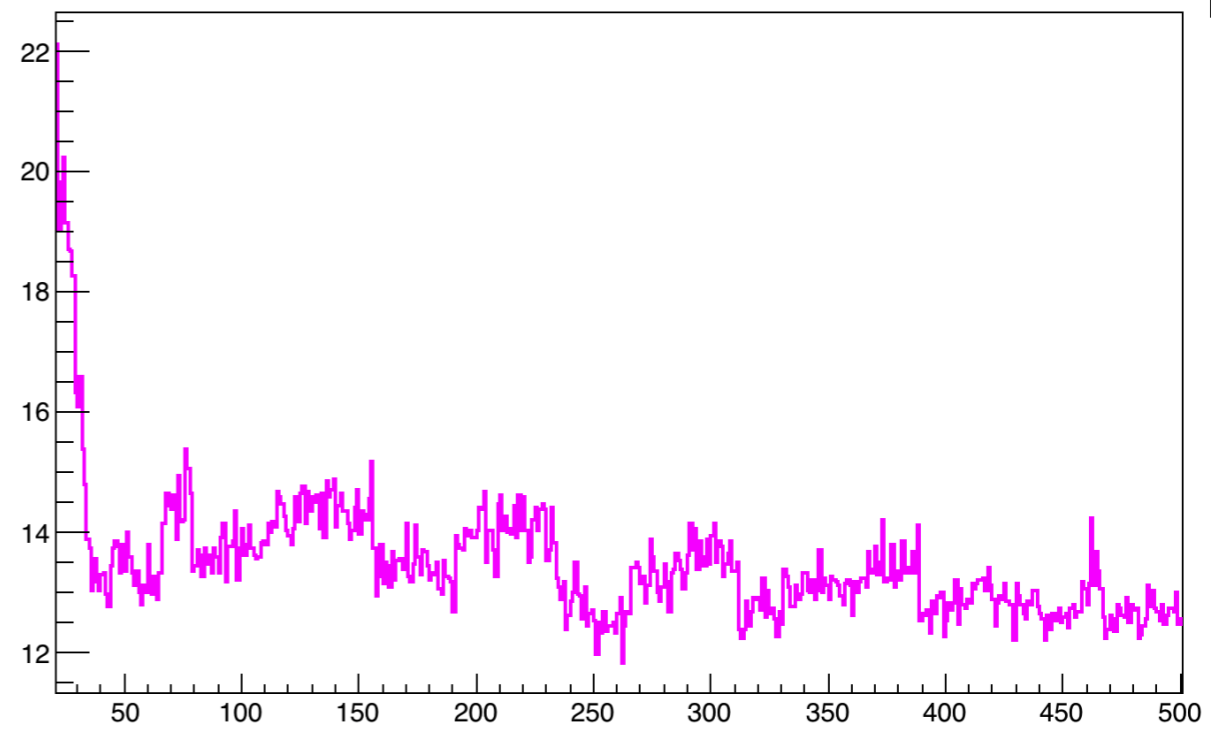
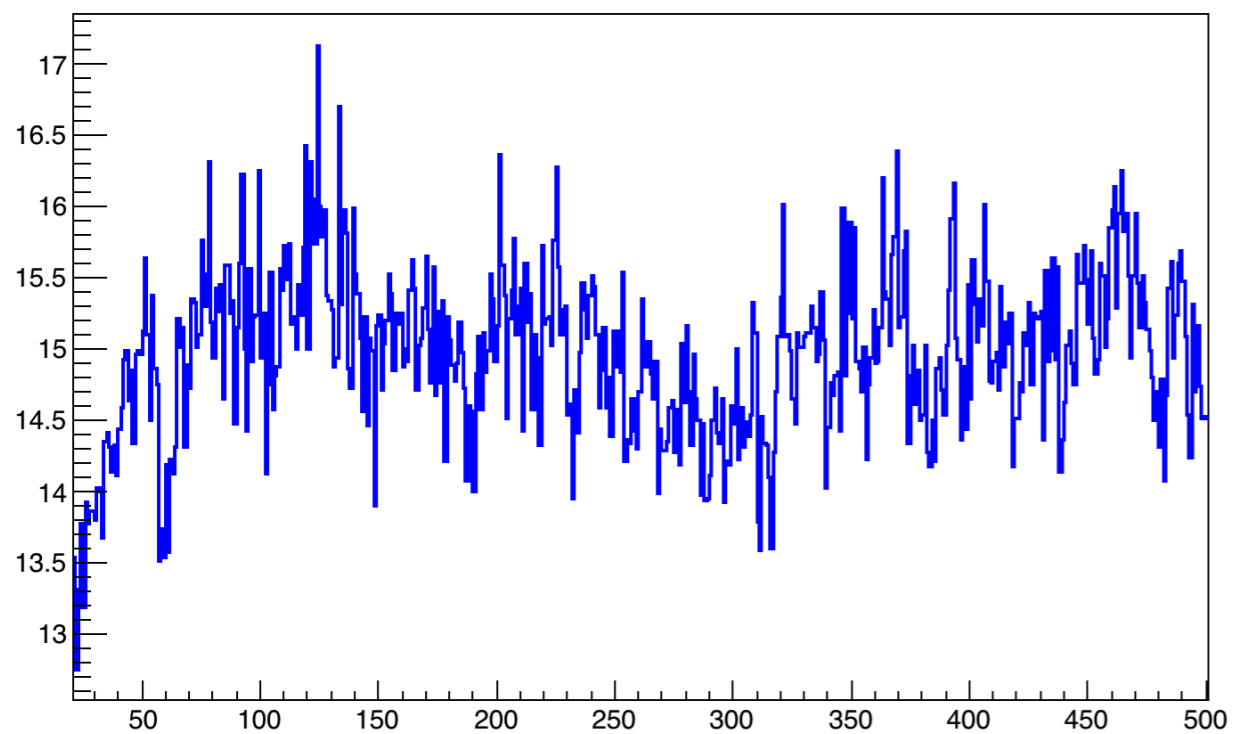
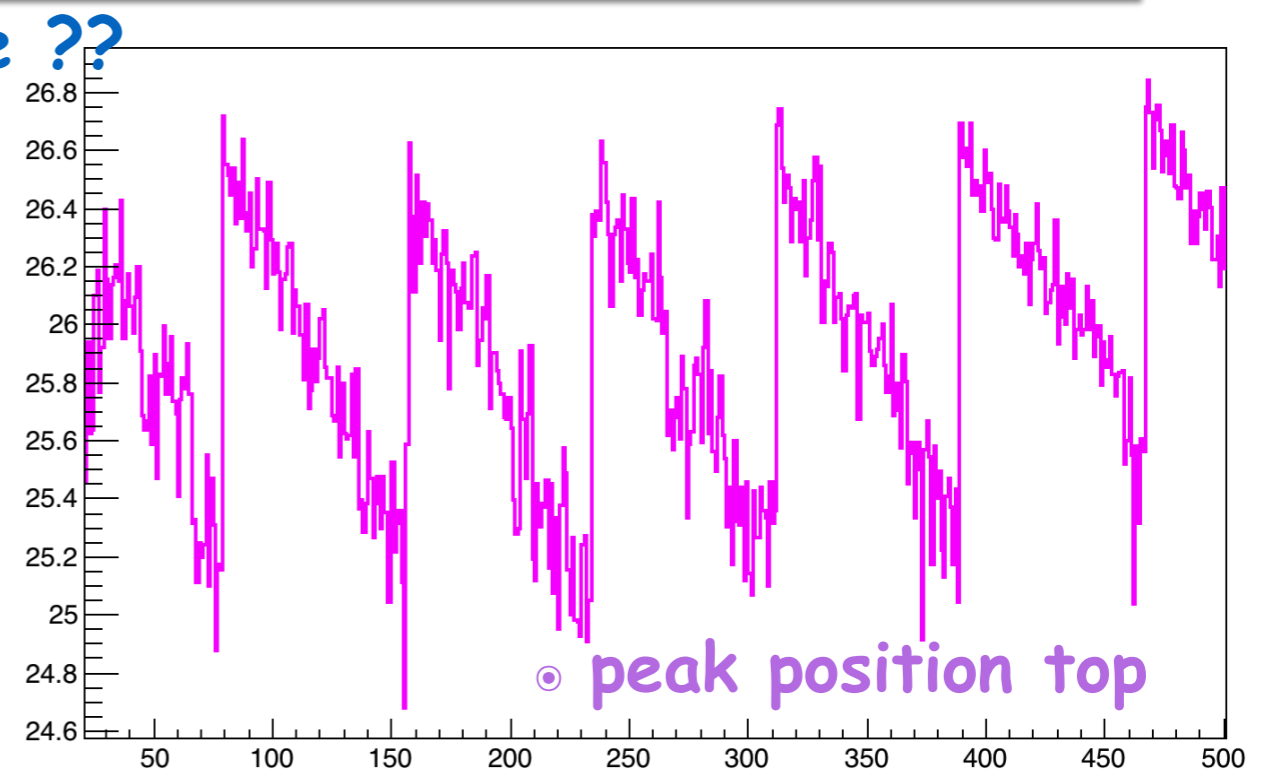
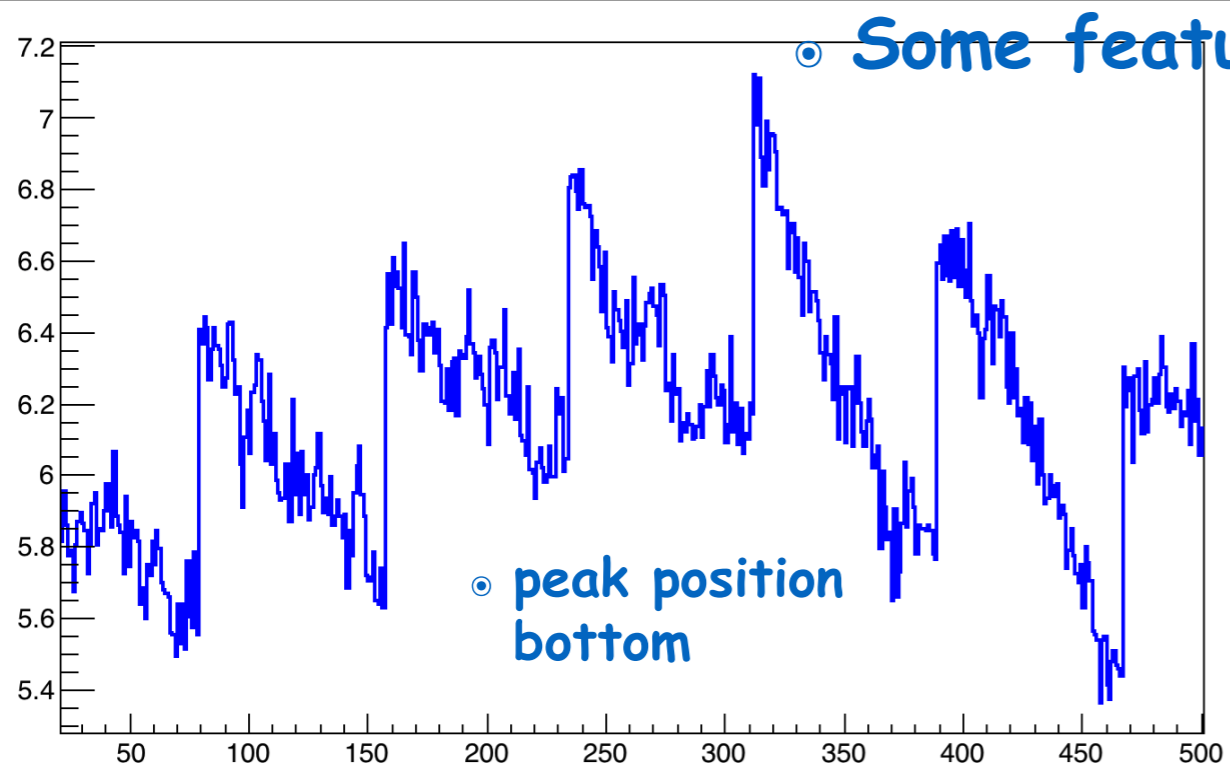
Temperature



Bottom: outlet

X axis

T = -55 C, fitting method



sigma bottom

sigma top

backup