

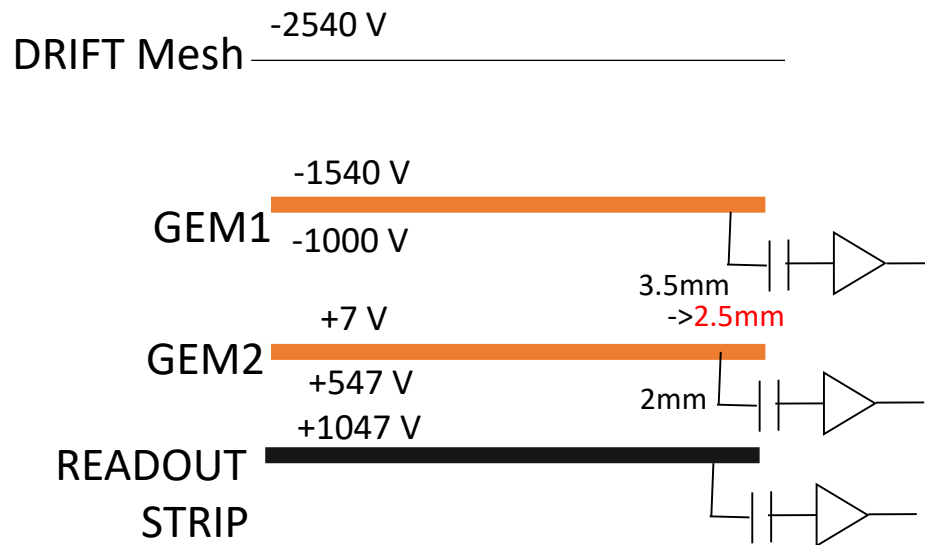
CYGNUS GAS MEETING

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Setup – Transfer Distance Change



Triple-GEM \rightarrow Double-GEM

\rightarrow Gas gain FWHM Improvement achieved
($\sim 90\%$ \rightarrow $\sim 60\%$)

But not good energy resolution

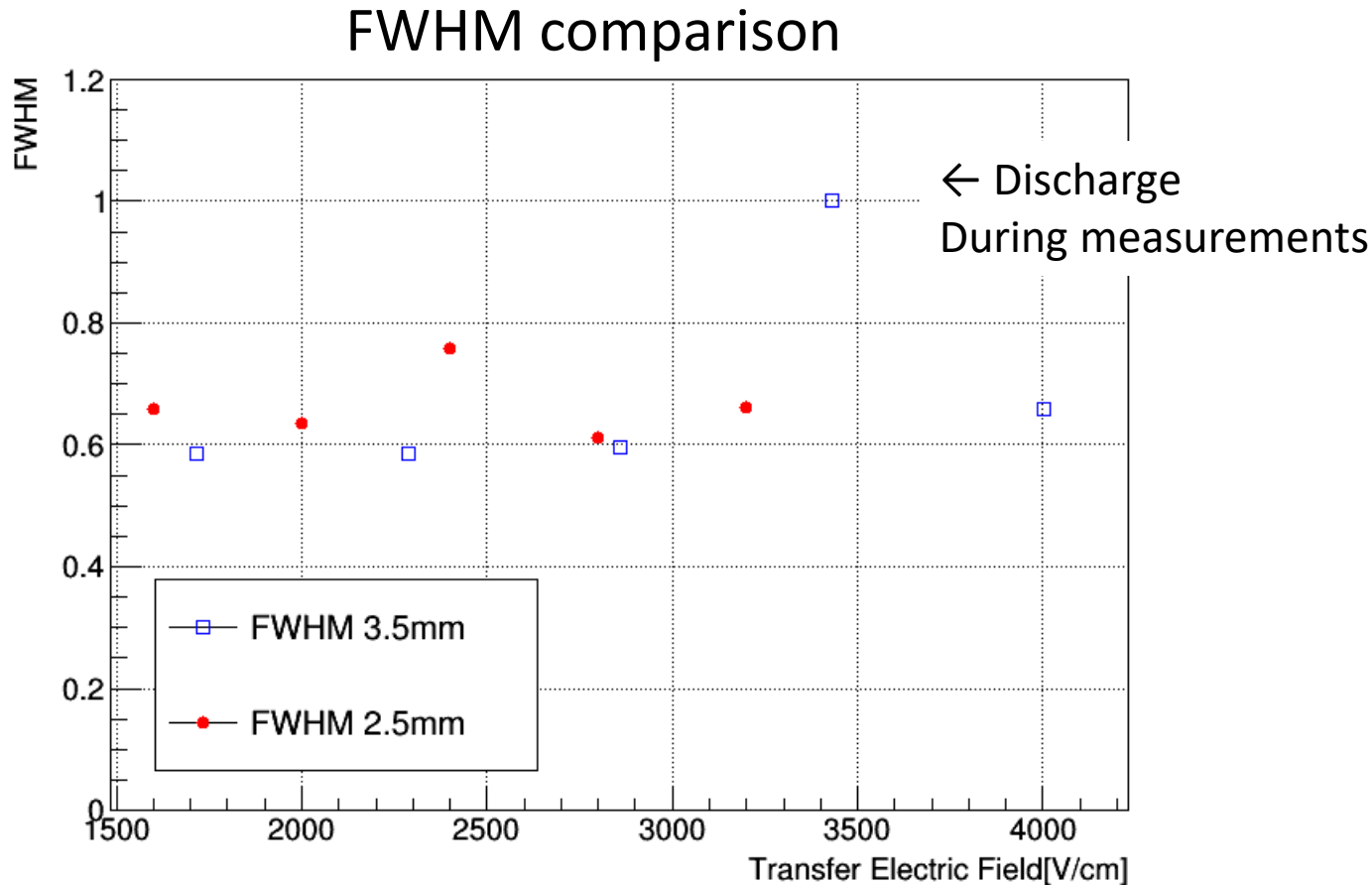
So try “Transfer” distance change
(distance between GEM1 and GEM2)

$3.5\text{mm} \rightarrow 2.5\text{mm}$

Question.

Will energy resolution be improved?
(or worsened?)

Result – Transfer Distance Change



In the case of energy resolution,

There is no clearly difference between 3.5mm and 2.5mm
(but need more statistical comparison)

Even shorter? (2mm, 1.5mm, 1mm...) -> I will try that case soon.