



Cubism - Braque's Bottle and Fishes, Paris c.1910-12



## ArgonCube 2x2 Filter Update



Cryo meeting  
Nov 4<sup>th</sup> 2019  
James Sinclair, LHEP 1

# Filter Material from Research Catalysts

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Thanks Kathrine.

~ 10 l molecular sieve - RCI-DRI 4A Mol-Sieve

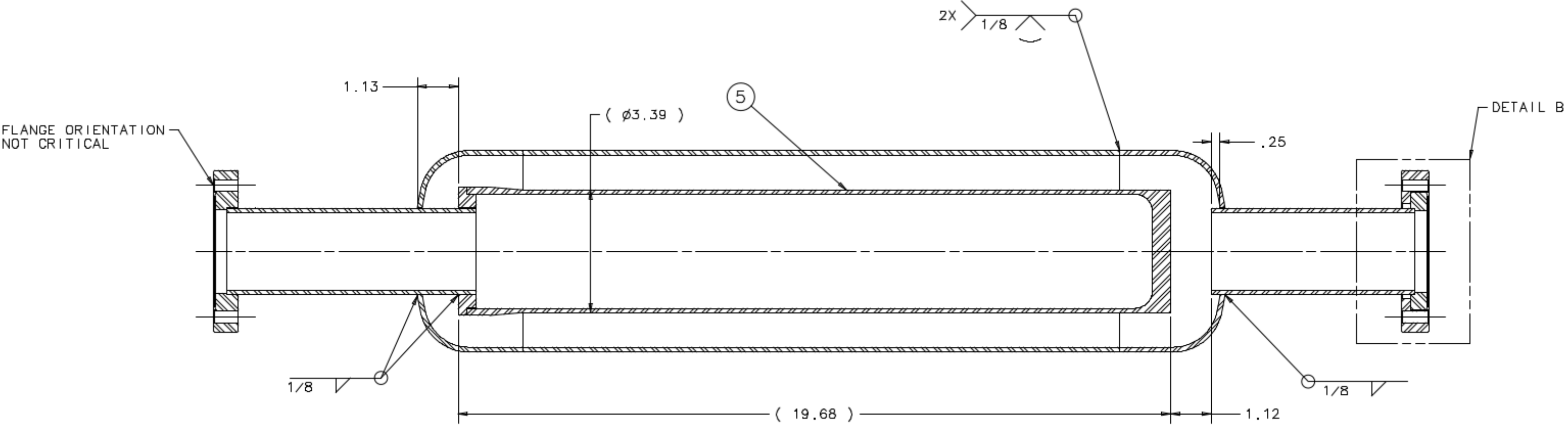
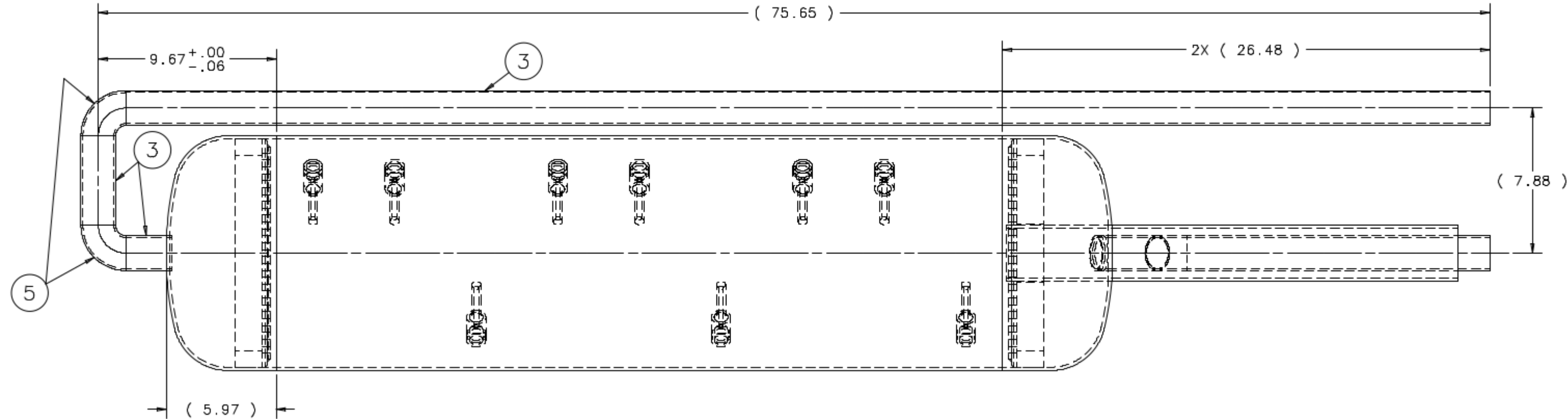
~ 10 l getter - Q-5 Copper Catalyst

20 l filter material for ~ 8 t LAr.

# uBooNE Filter

uBooNE uses ~ 110 l of getter and molecular sieve

For particulate there is a 5 um SS cartridge from GKN



SECTION A-A  
SCALE: 1:2

# Filter Cooling

To make the filter external we need to provide cooling.

LN2 at 2.25 bar will provide 85 K.

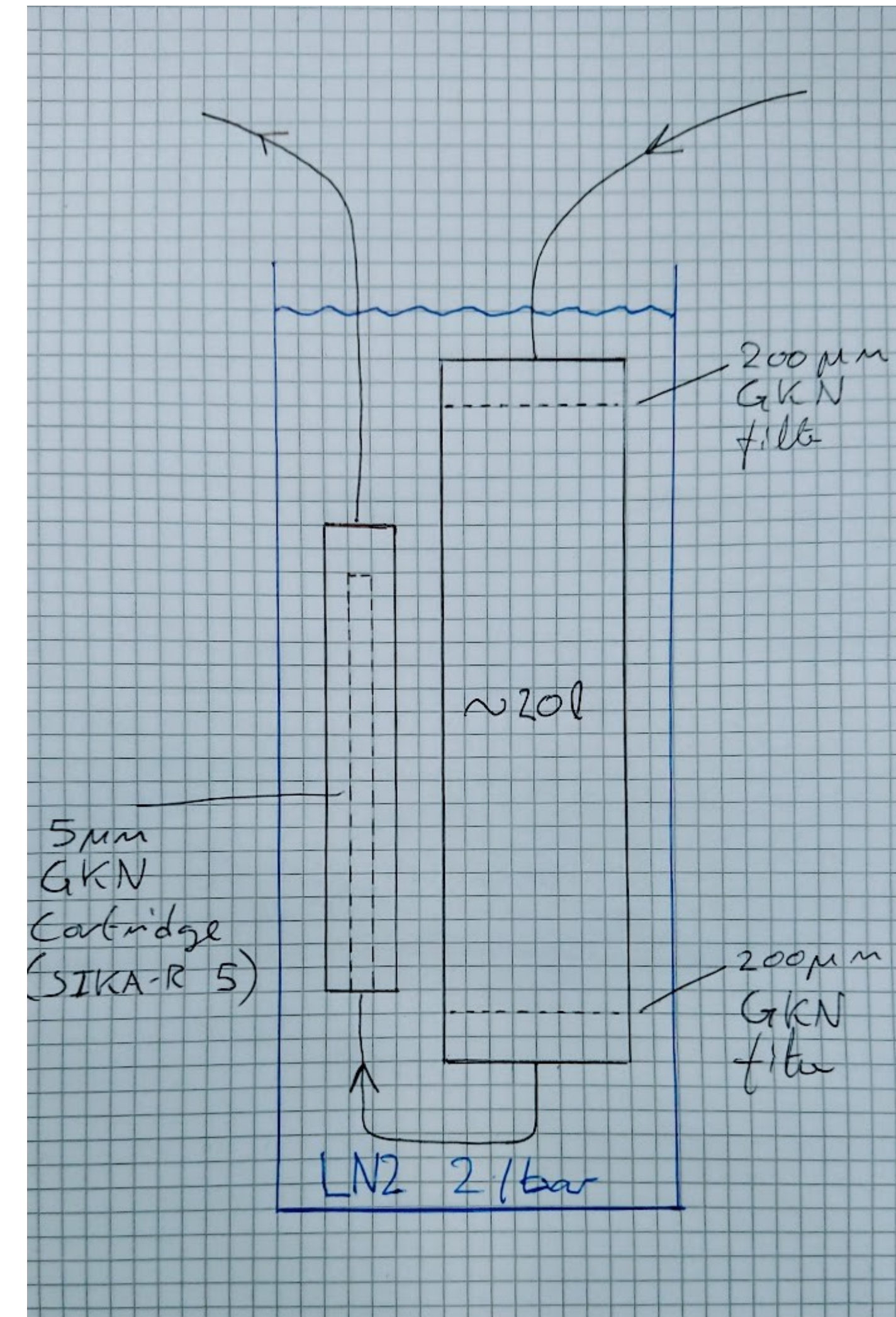
A suitable cryostat is needed.

We have a spare LHe cryostat:

External dimensions 1.35 x 0.65 m

Internal dimensions 1.23 m x 0.25 m

Manufacturer (Cryogenic Ltd) says the vessel will be ok at 2.25 bar.





Pressure tested to 3.5 bar

