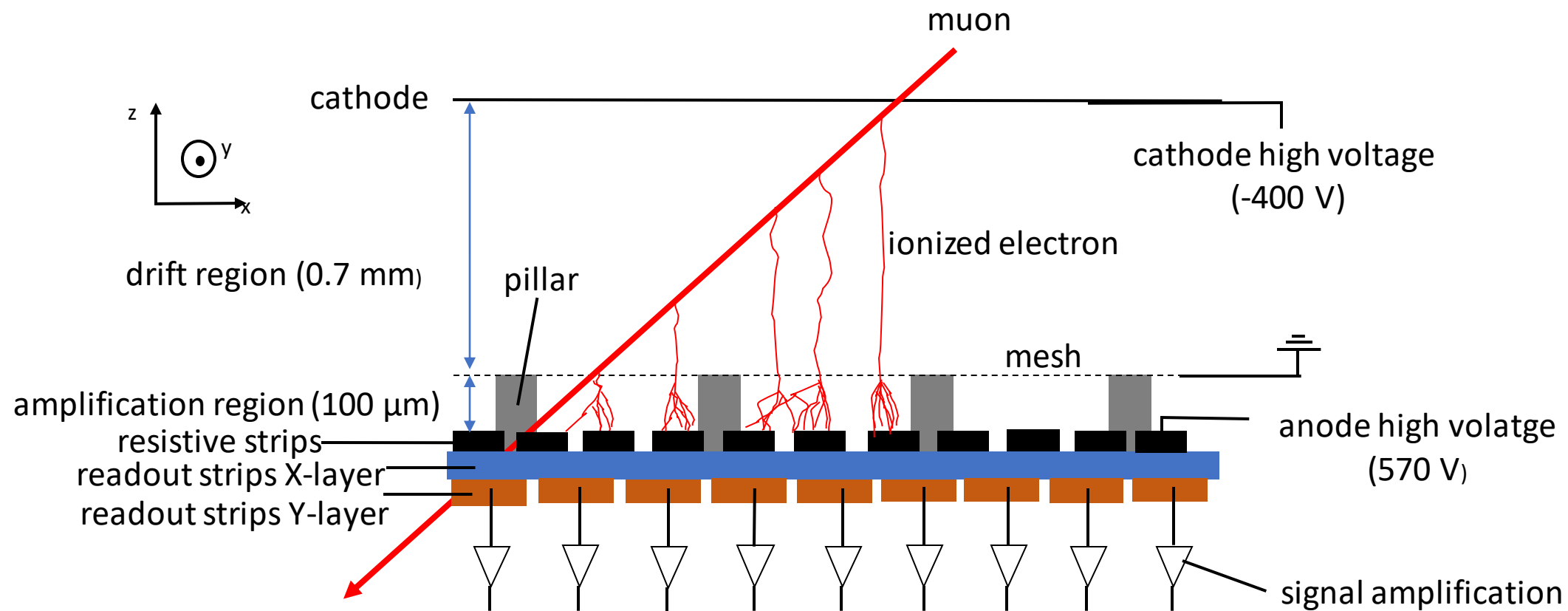


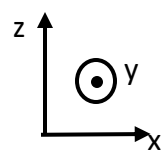
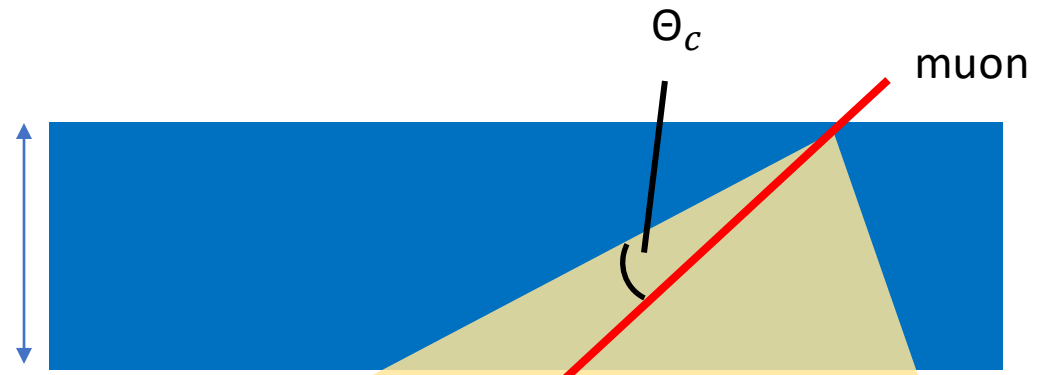
# Development of a Cherenkov Micromegas

Daniel Grewe



$$\cos(\Theta_c) = \frac{1}{n\beta}$$

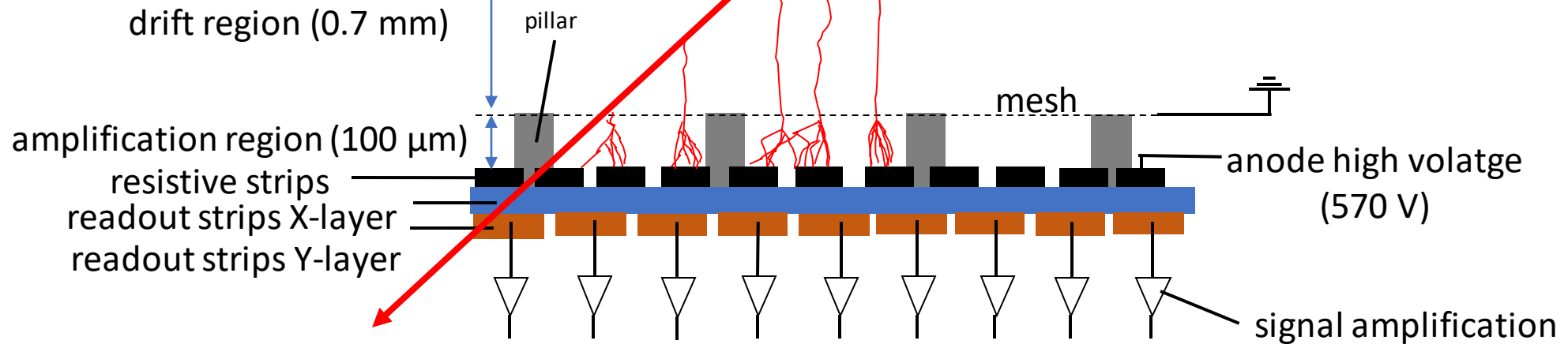
cherenkov radiator (LiF)  $\approx 20$  mm



drift region (0.7 mm)

Ar:CO<sub>2</sub>

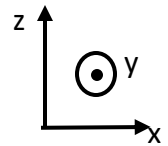
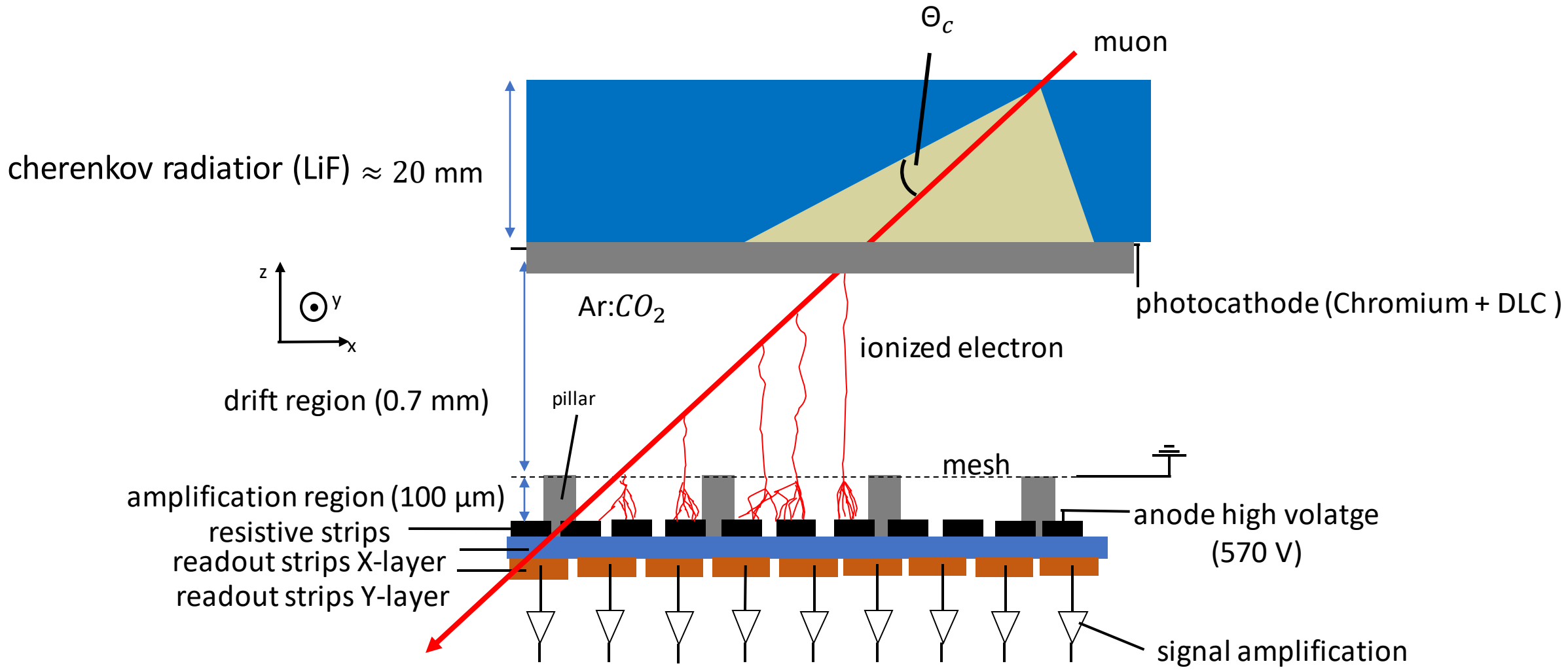
ionized electron

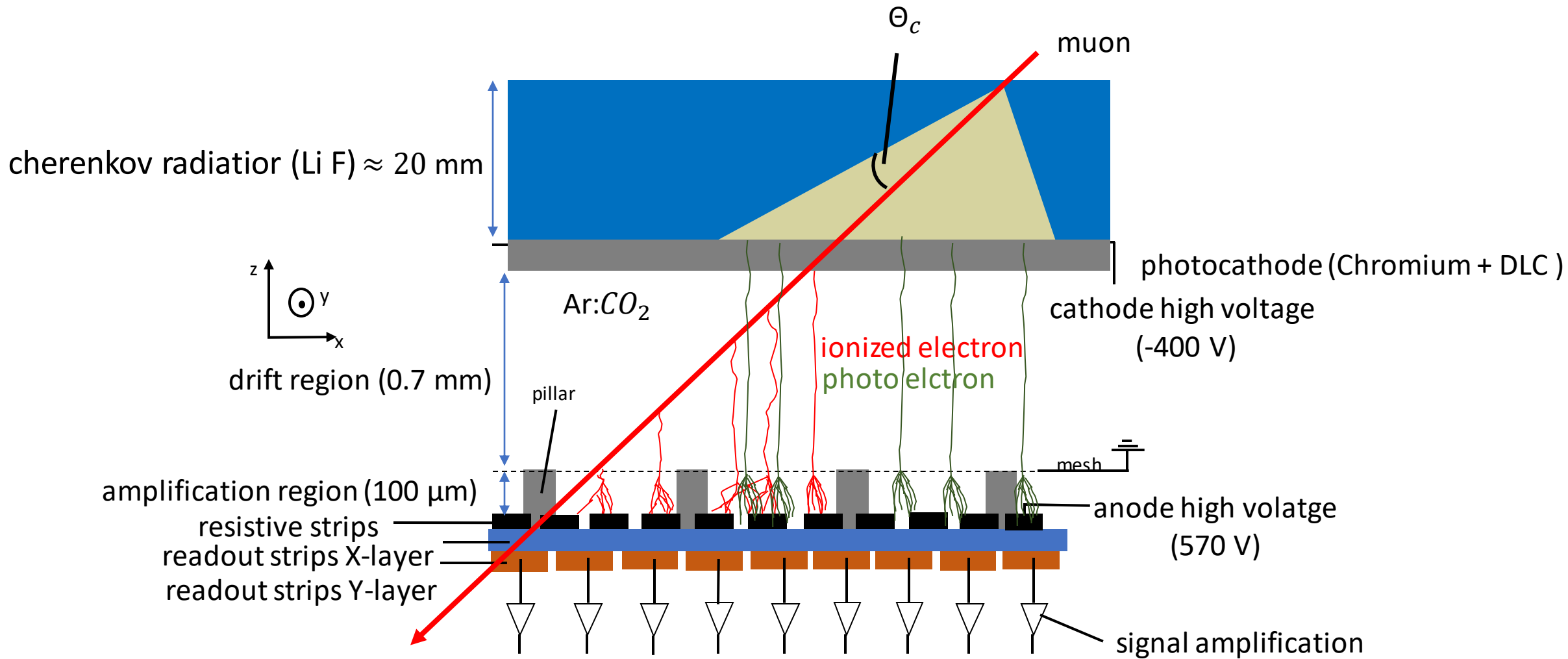


anode high volatge (570 V)

signal amplification

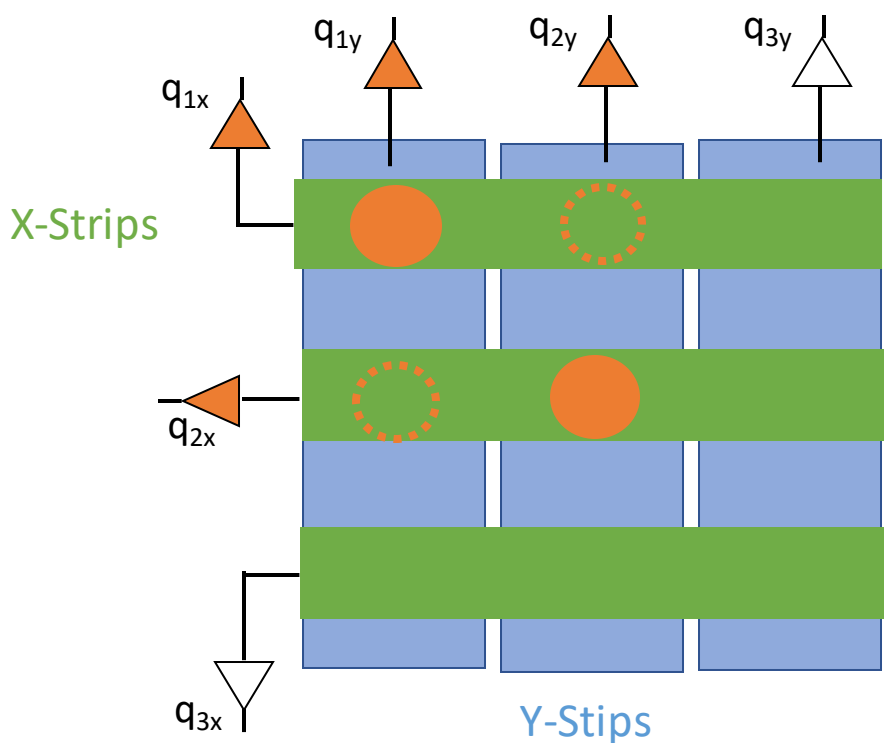
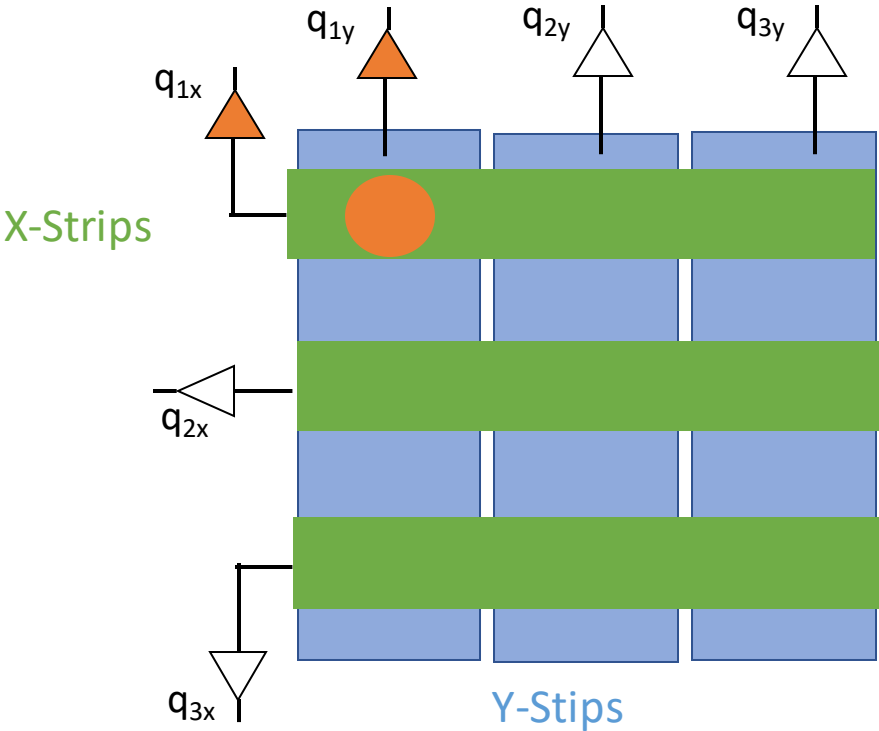
$$\cos(\Theta_c) = \frac{1}{n\beta}$$



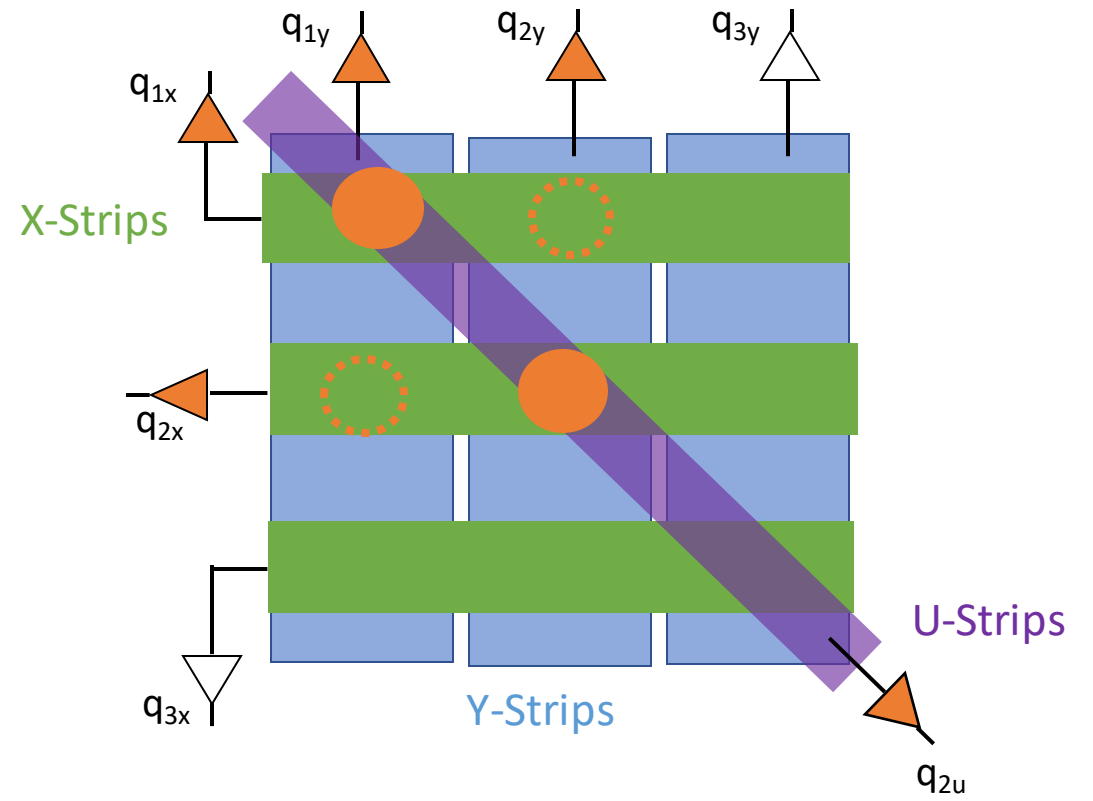
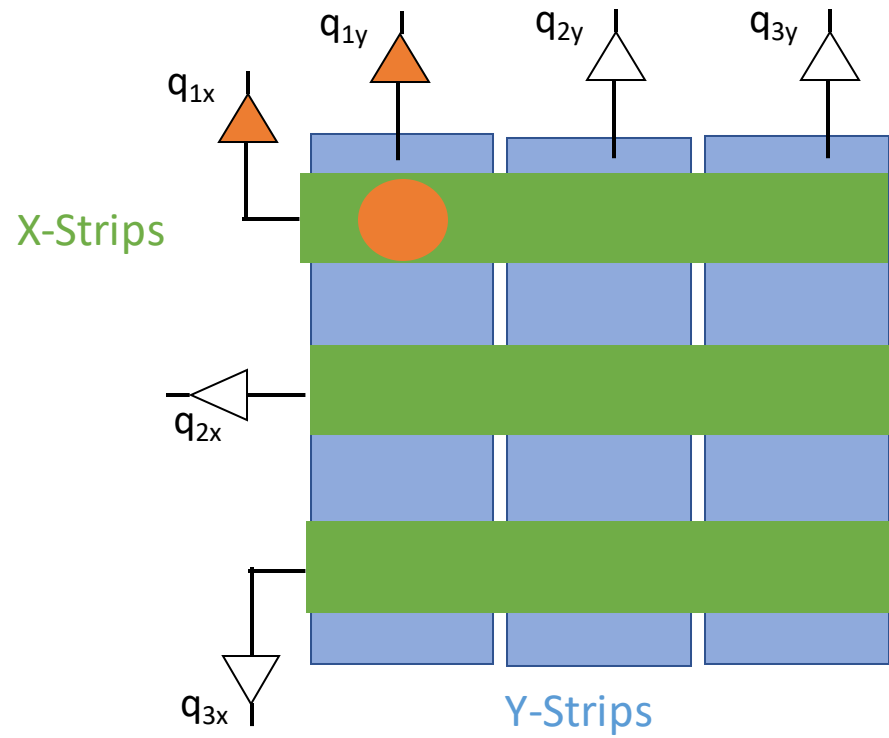


“Development of an Inverted Ring Imaging Cherenkov Micromegas” Maximilian Paul Rinnagel

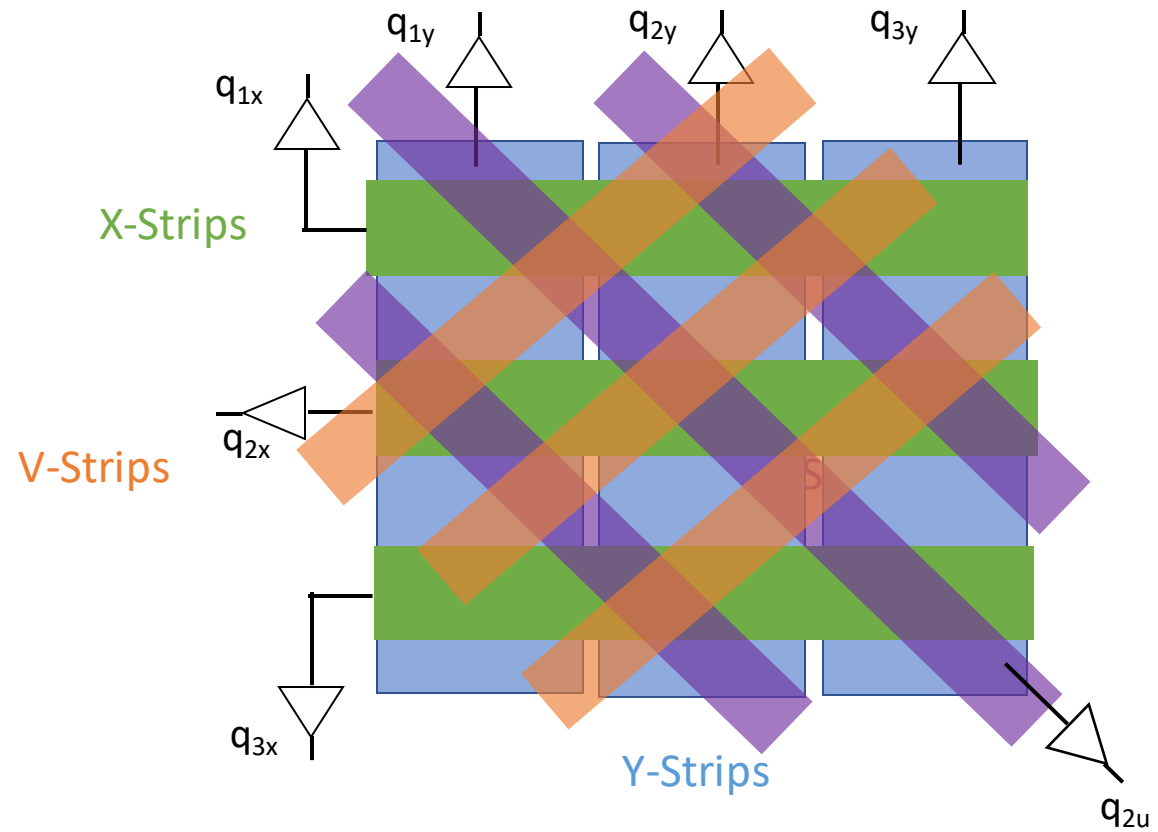
# Problem:



# Solution:



# Solution:



“Research and Development of a Segmented GEM Readout Detector” Christoph Jagdfeld



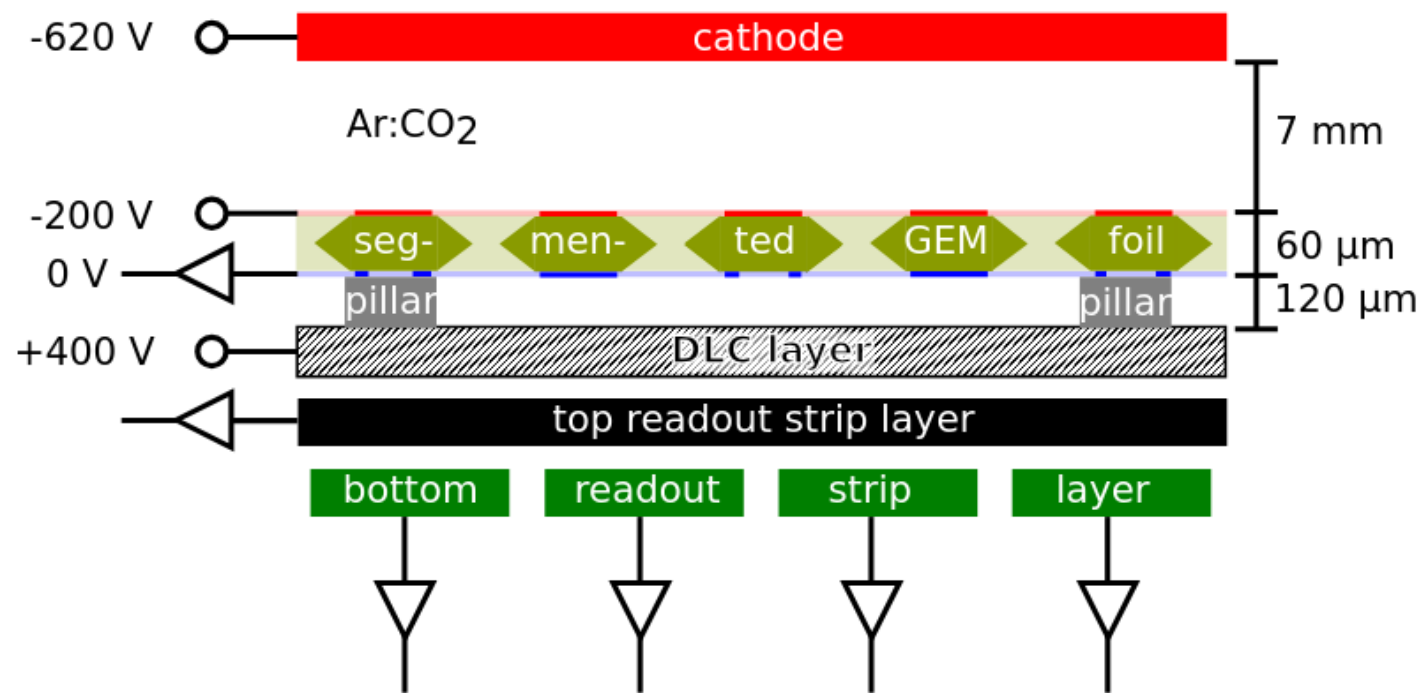


figure taken from : "Research and Development of a Segmented GEM Readout Detector" Christoph Jagdfeld

# Final Goal:

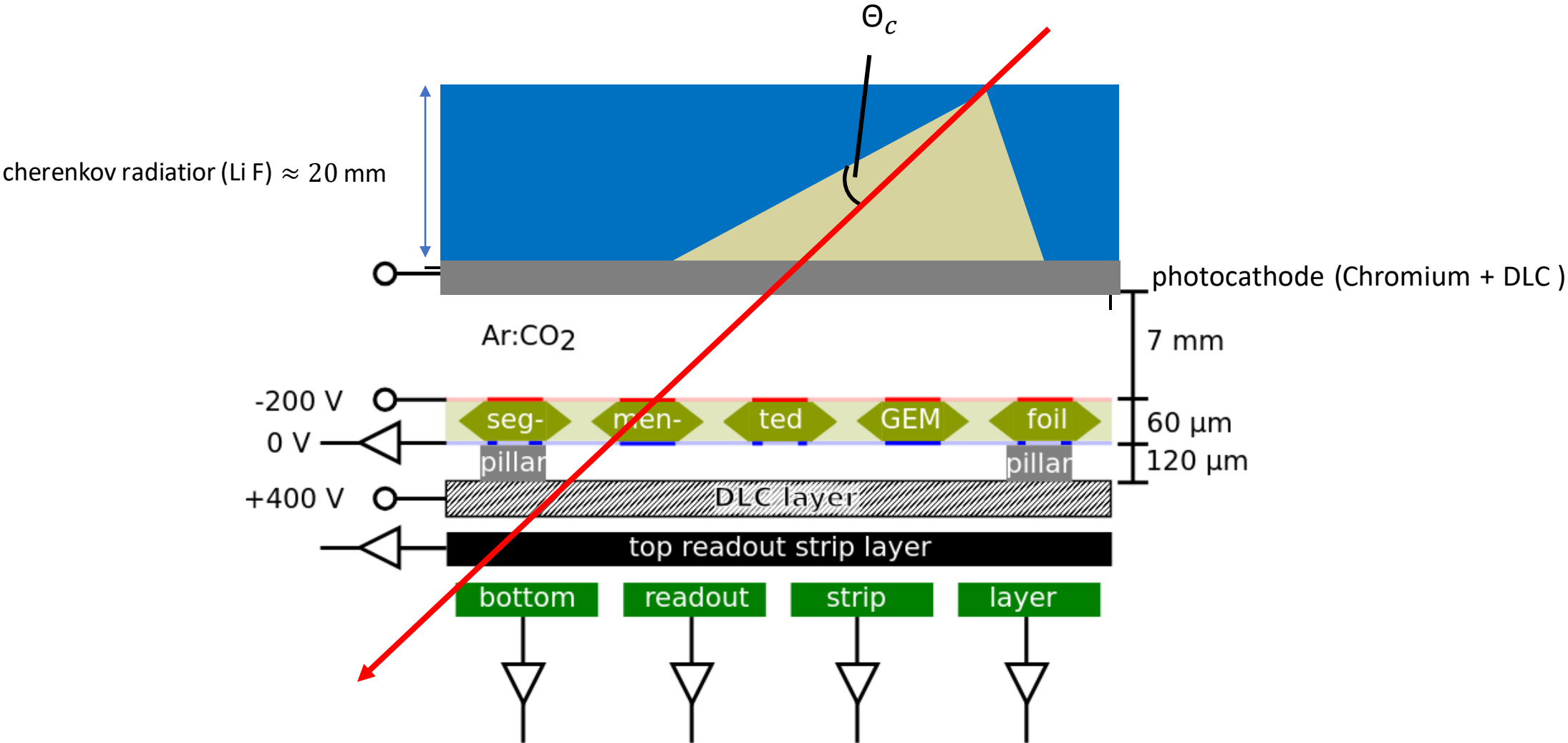


figure "Research and Development of a Segmented GEM Readout Detector" Christoph Jagdfeld