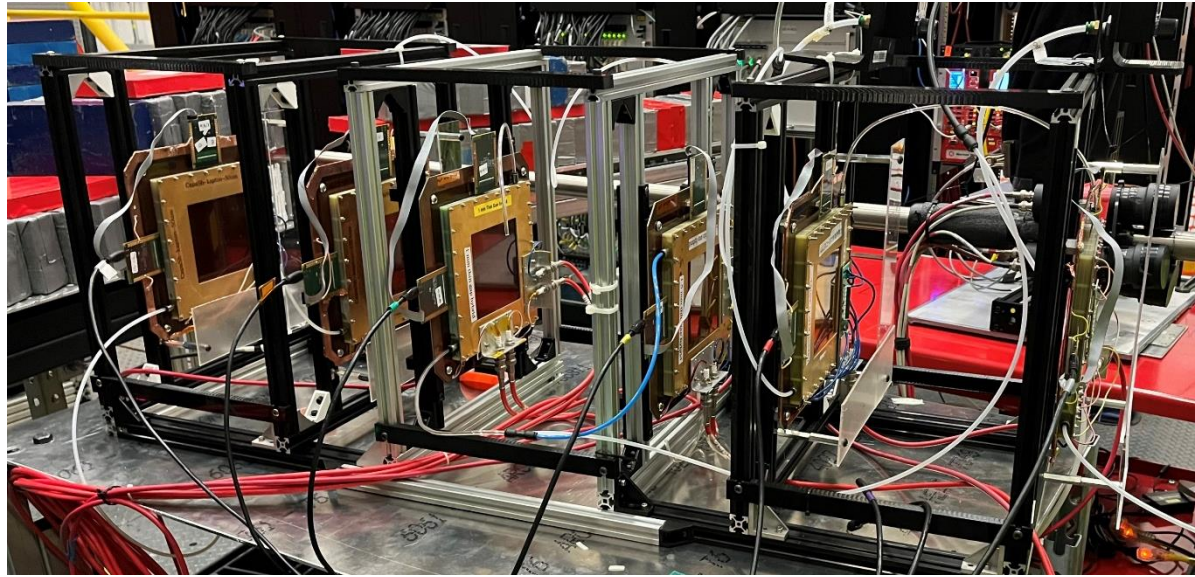
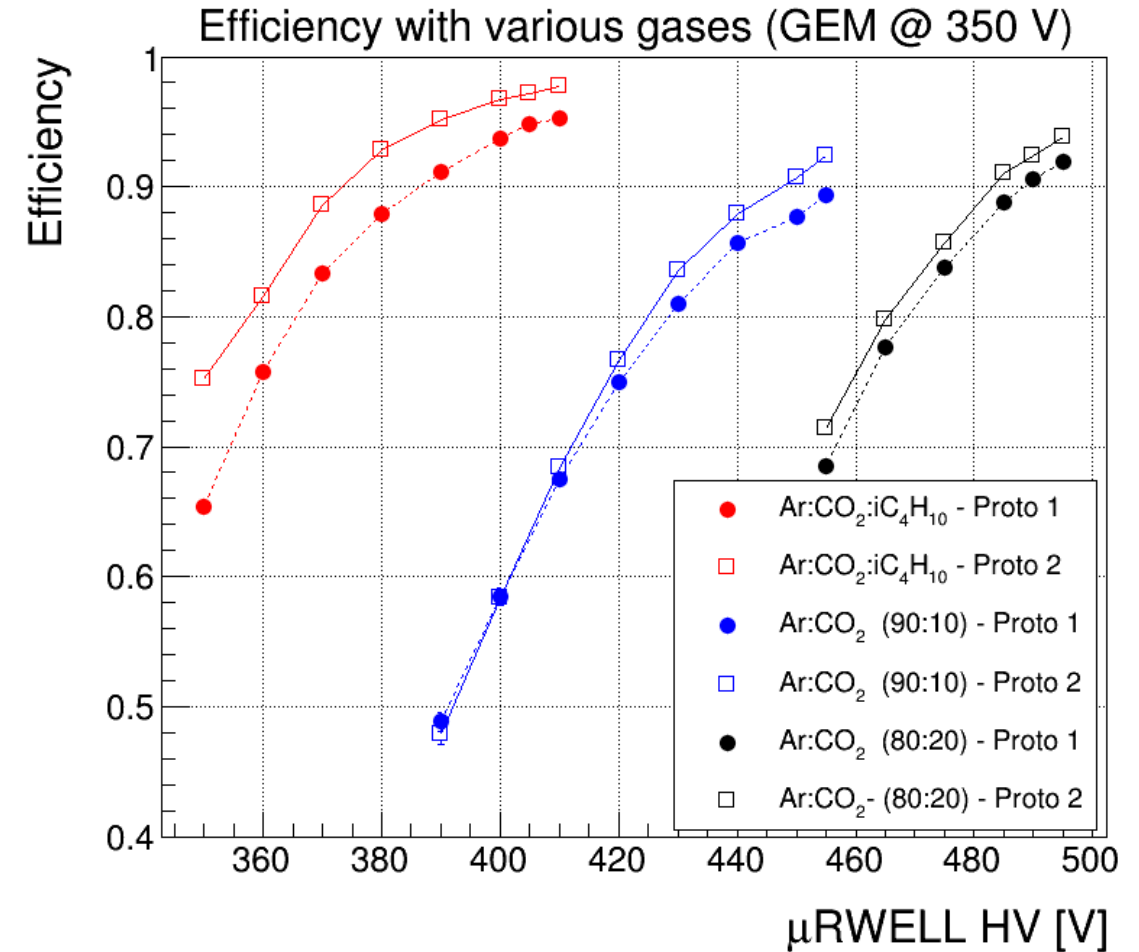


Thin-gap prototypes in beam test at JLab (June 2025)

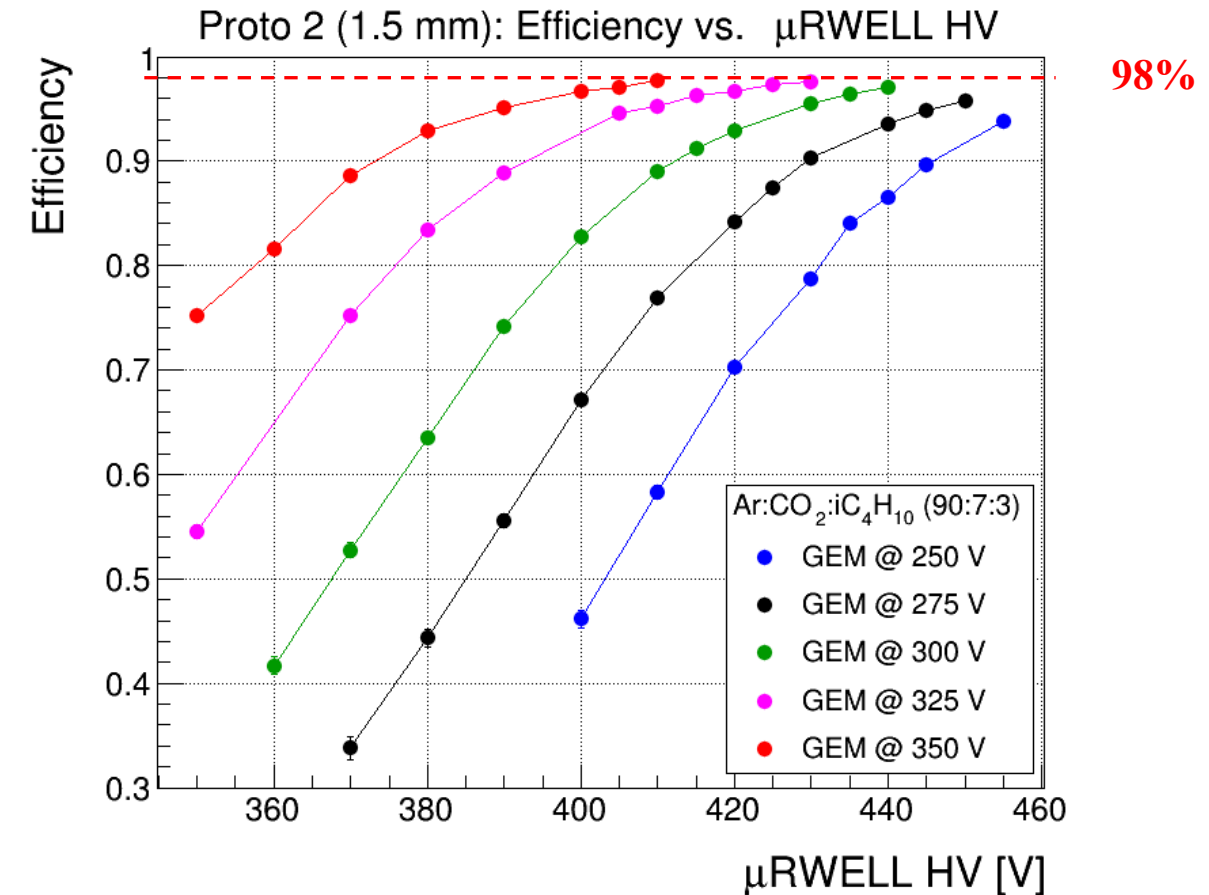
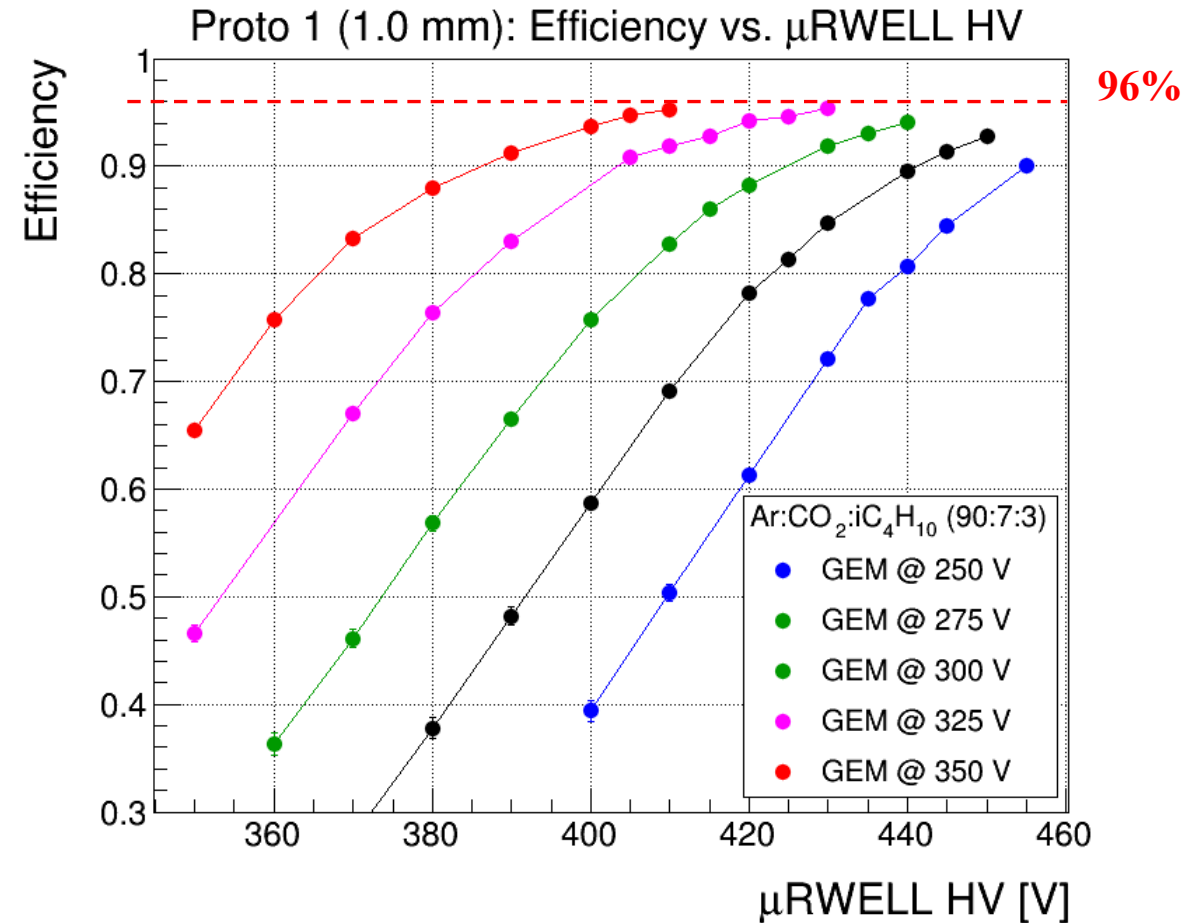


Efficiency studies with 3 different ar-based gas mixture

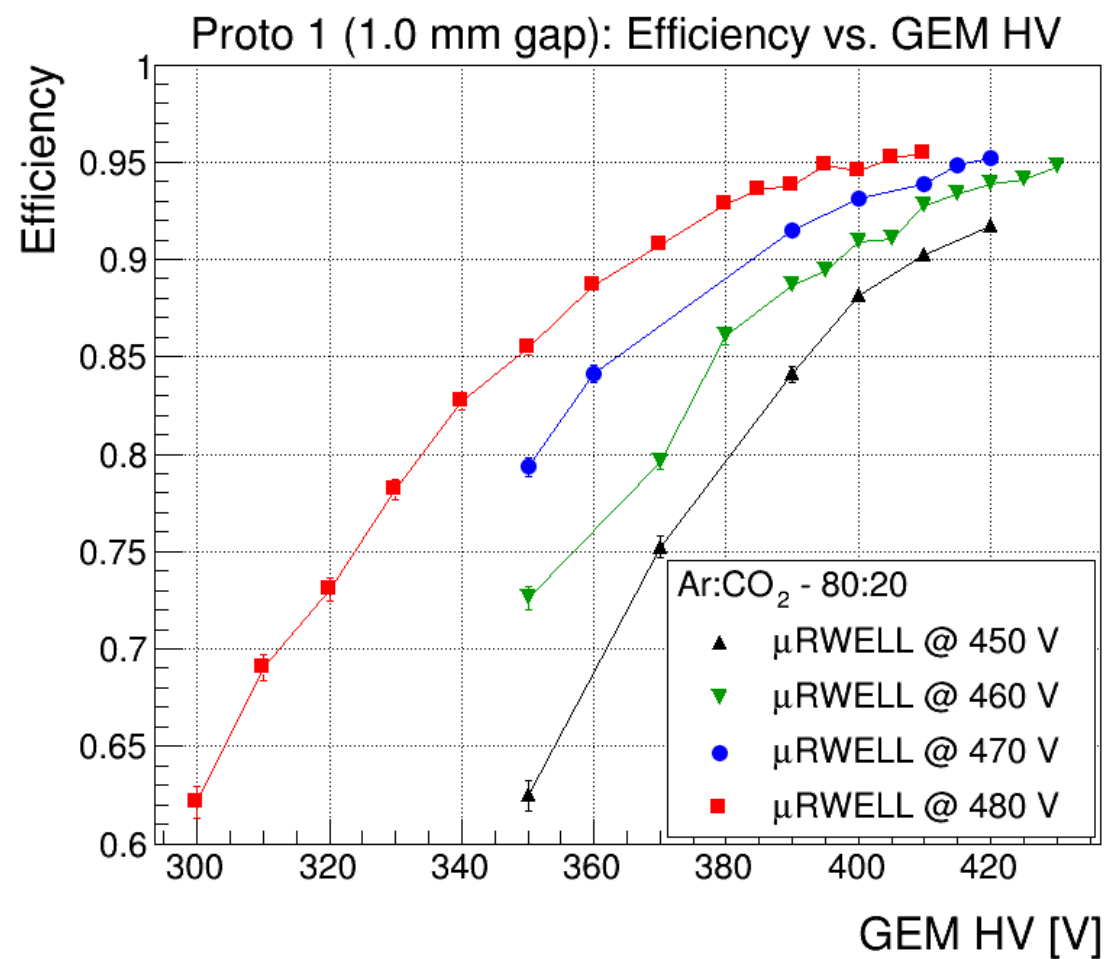
- **2 prototypes:** 1 mm gap (**proto 1**) & 1.5 mm gap (**proto 2**)
- **3 Gases:** Ar:CO₂:iC₄H₁₀ (90:7:3), Ar:CO₂ (90:10) & Ar:CO₂ (80:20)
- **HV scans:** GEM HV, μ RWELL HV, drift field & transfer field
- Analysis still ongoing some very appealing preliminary results
- 98% reached for 1.5 mm gap thin-gap prototype with Ar-CO₂-iso
- 96% for 1 mm thin gap reaches 96%



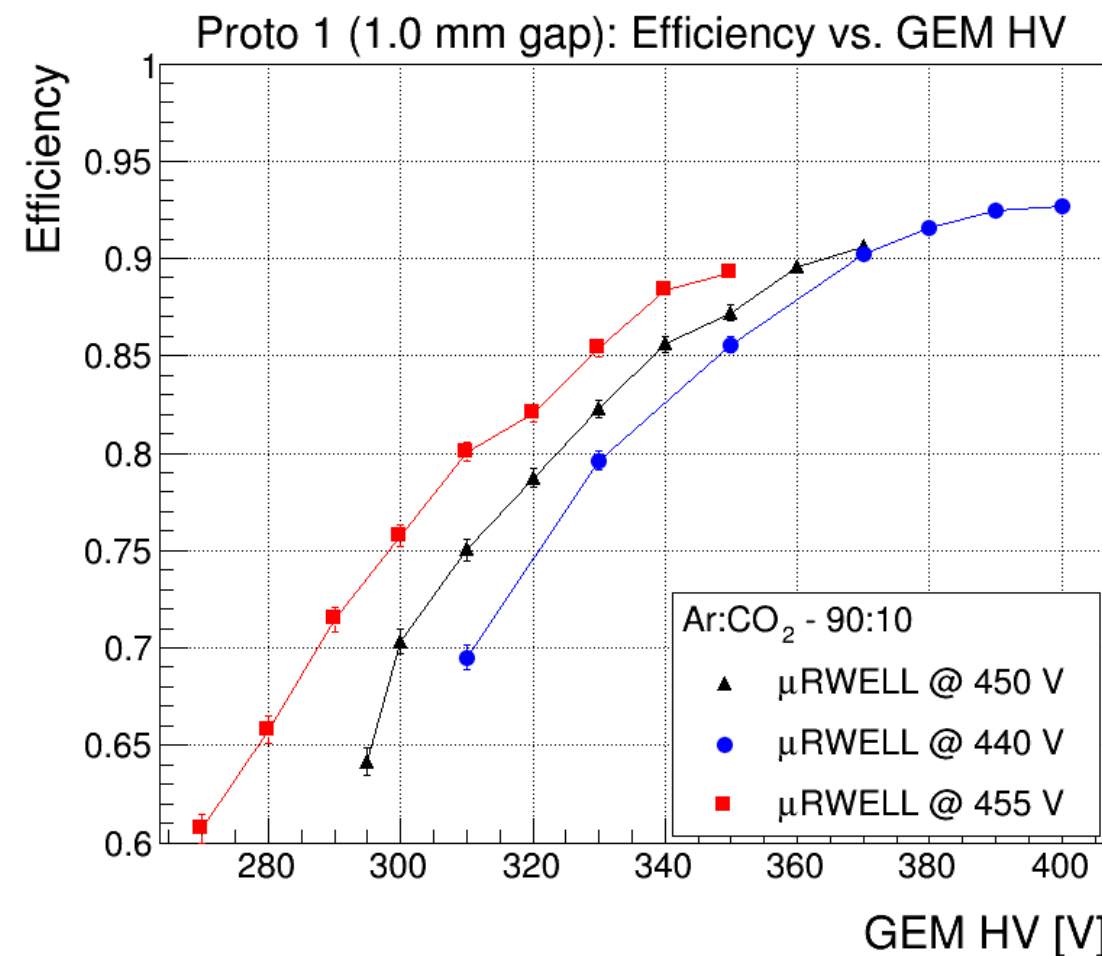
Ar:CO₂:iC₄H₁₀ (90:7:3)



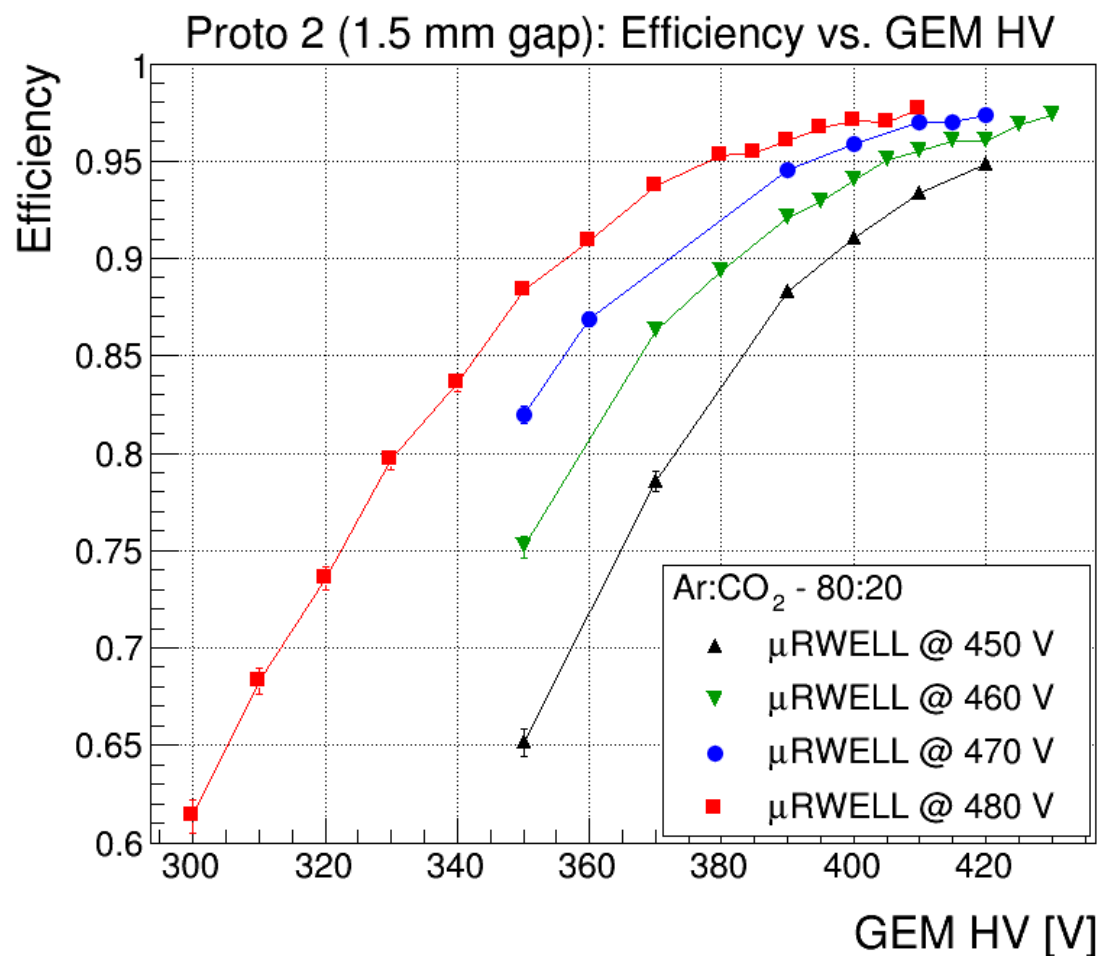
Ar:CO₂ (80:20)



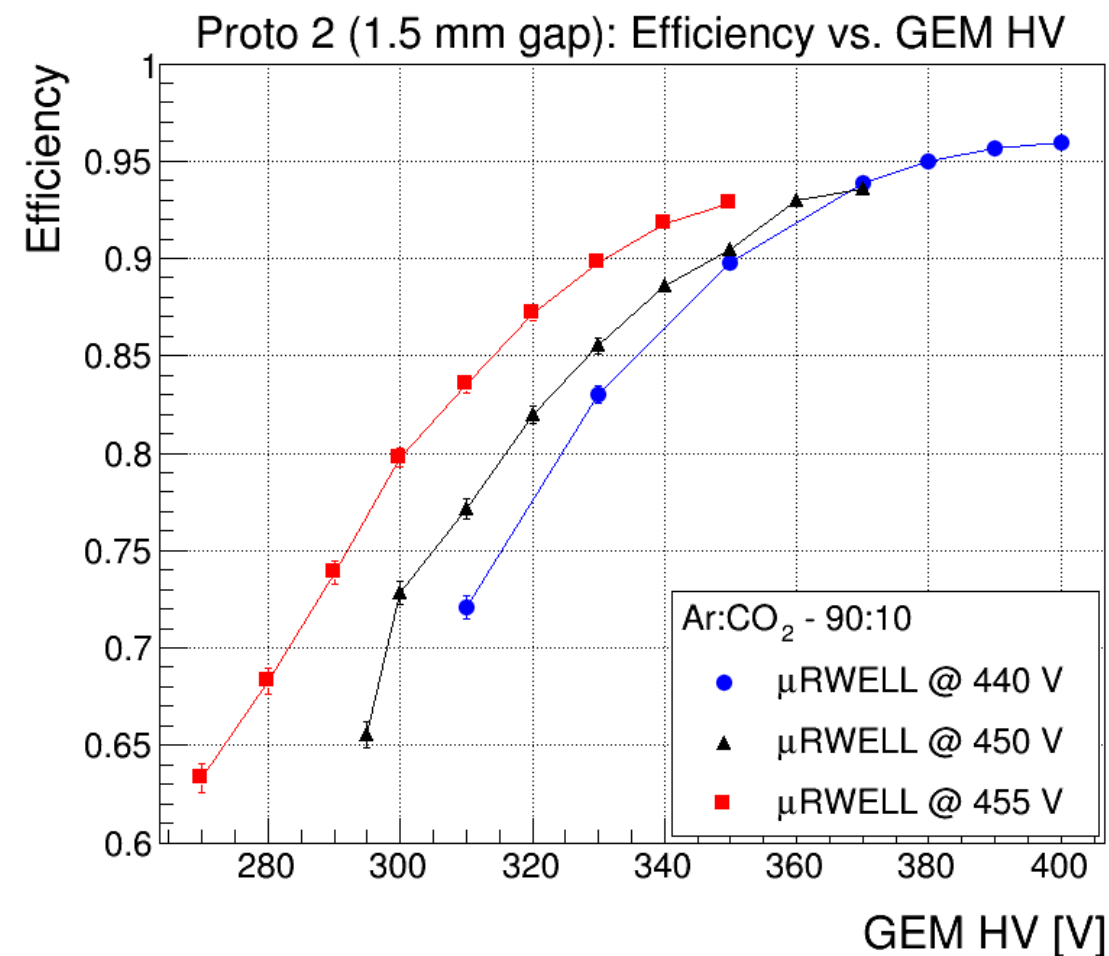
Ar:CO₂ (90:10)



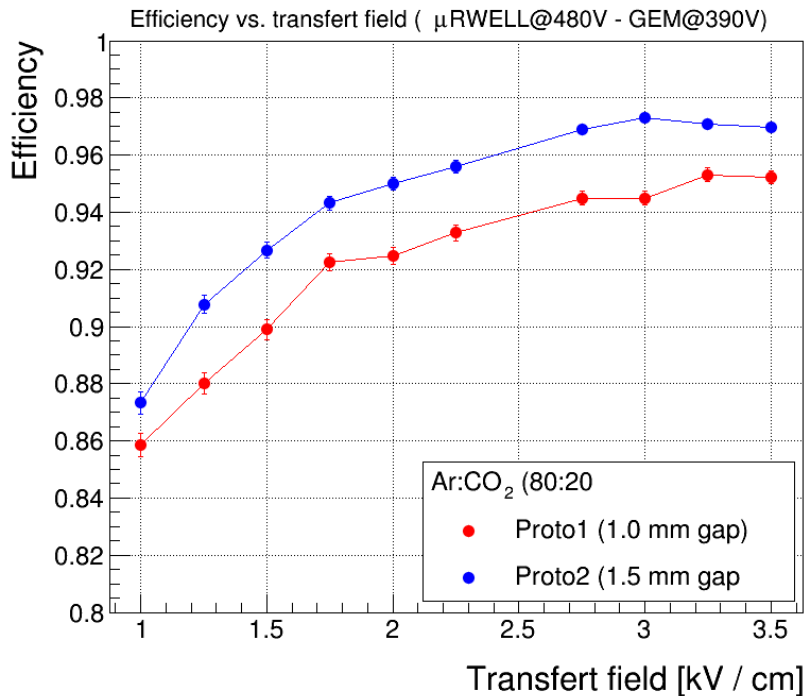
Ar:CO₂ (80:20)



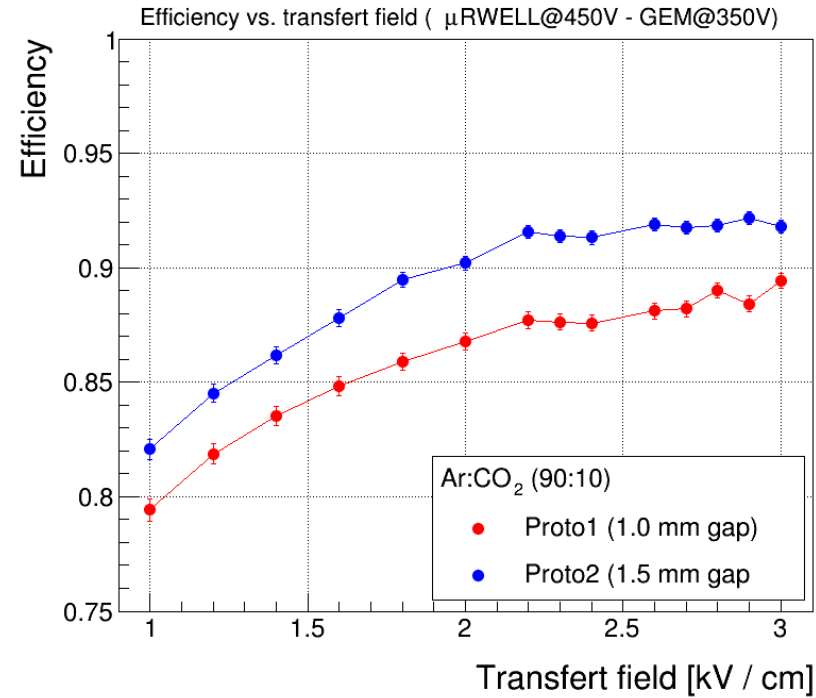
Ar:CO₂ (90:10)



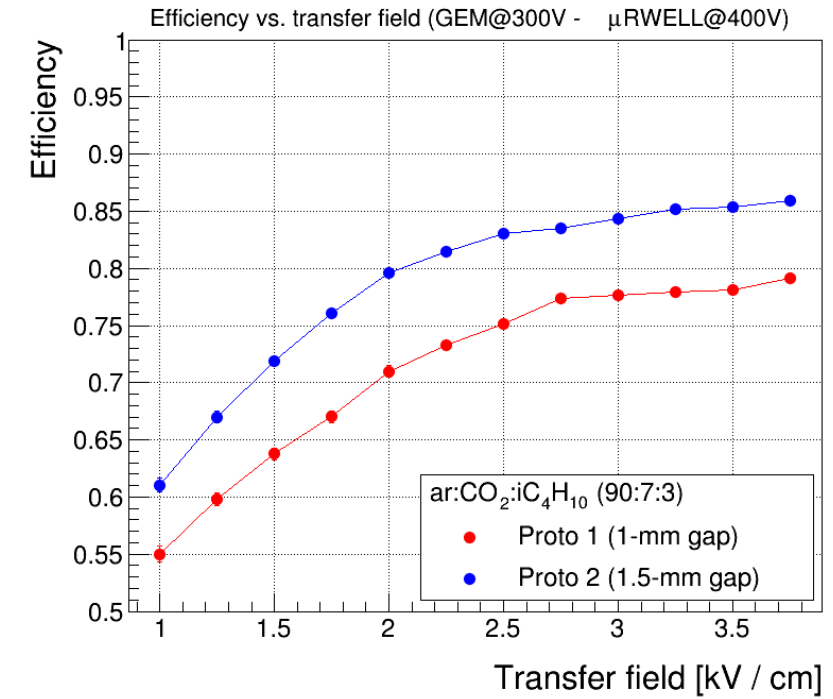
Ar:CO₂ (80:20)



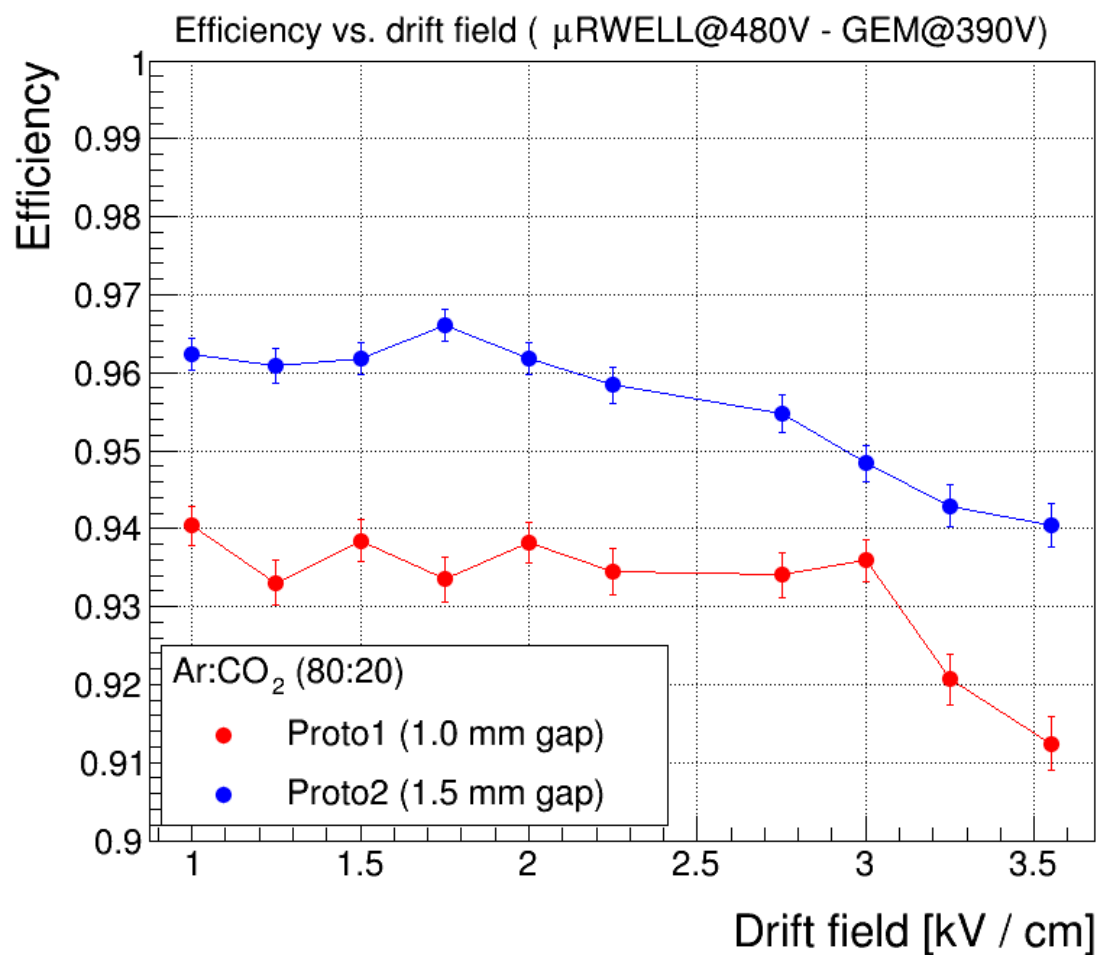
Ar:CO₂ (90:10)



Ar:CO₂:iC₄H₁₀ (90:7:3)



Ar:CO₂ (80:20)



Ar:CO₂ (90:10)

