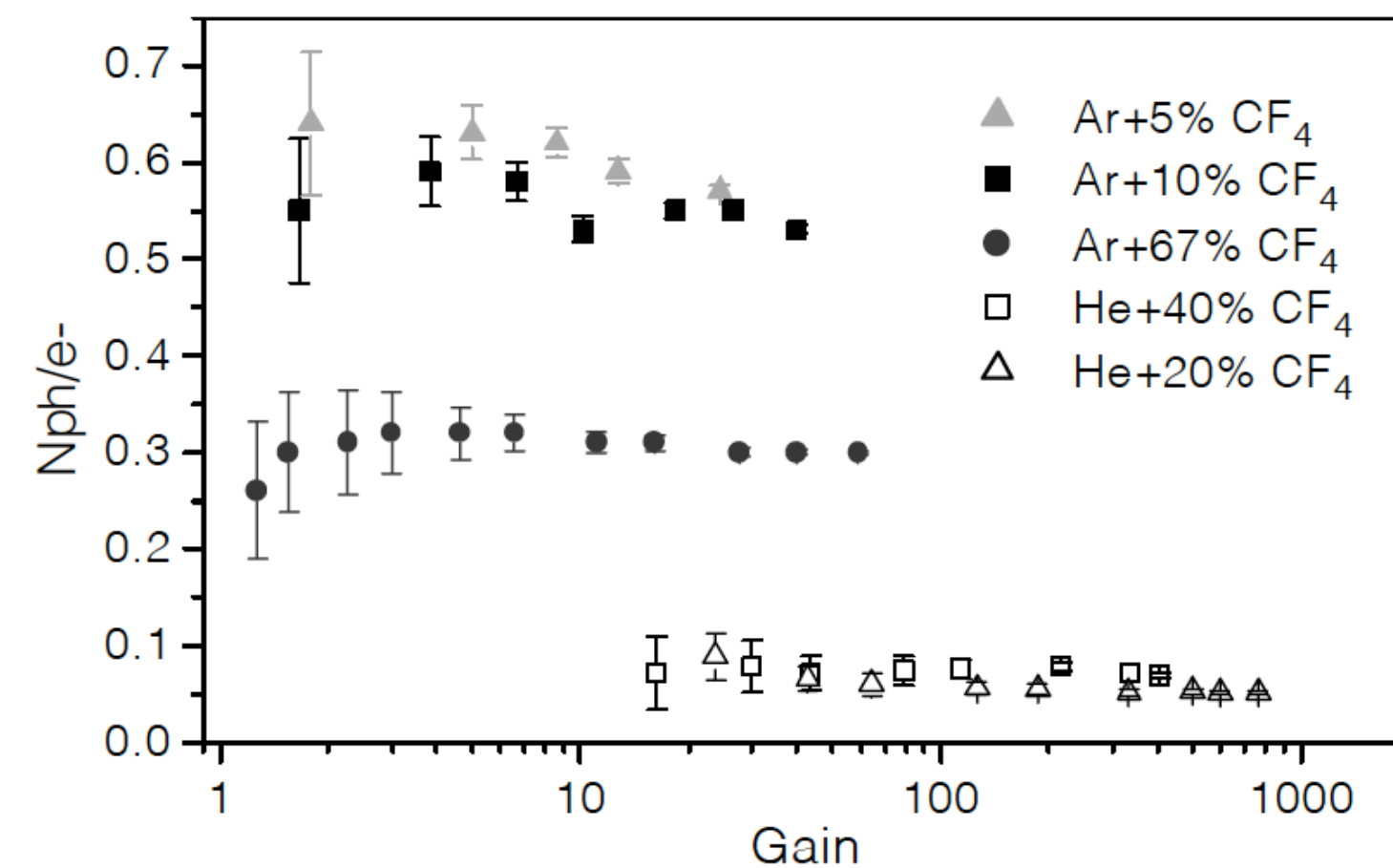


NEWS

CYGNO MEETING - 28/01/21

Luminescence

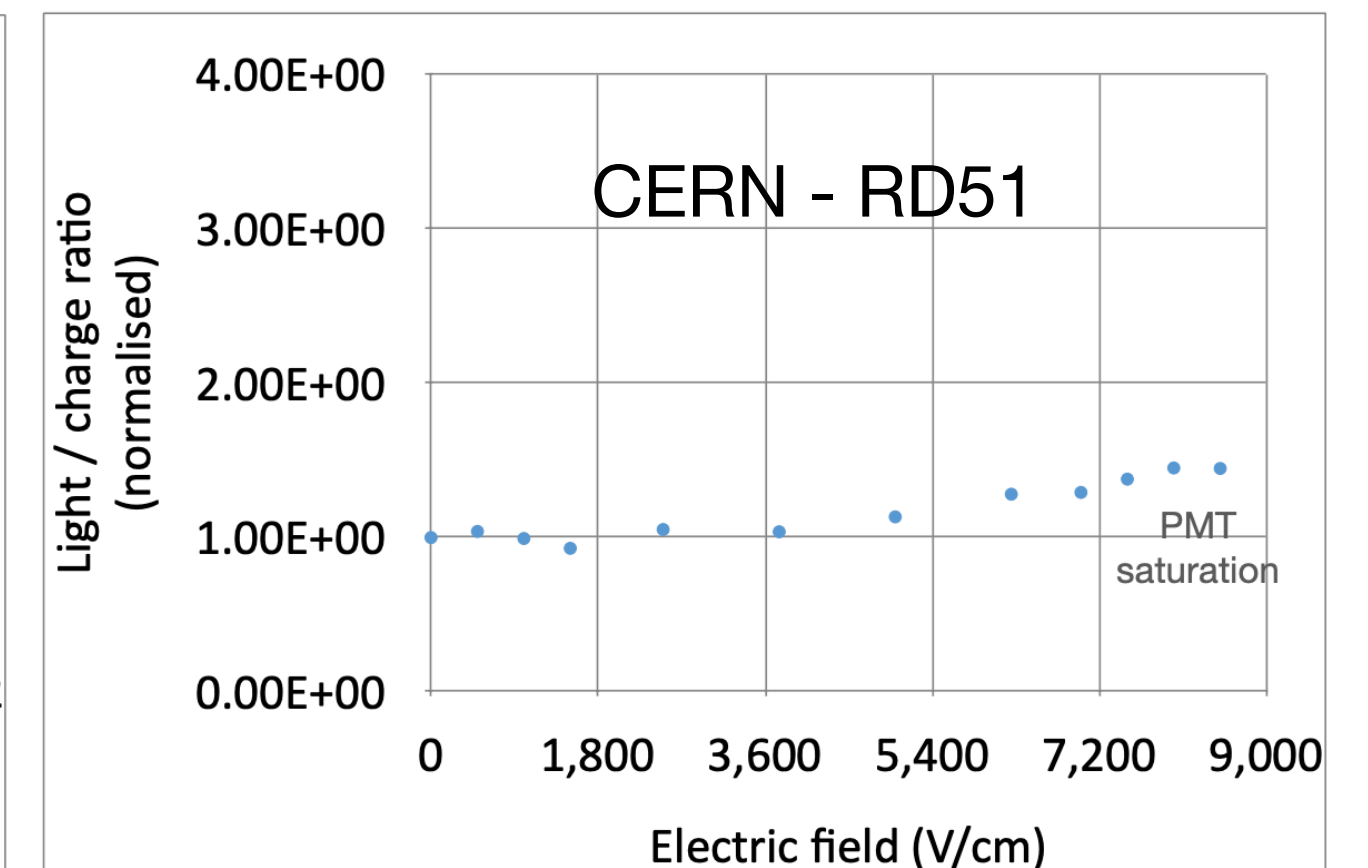
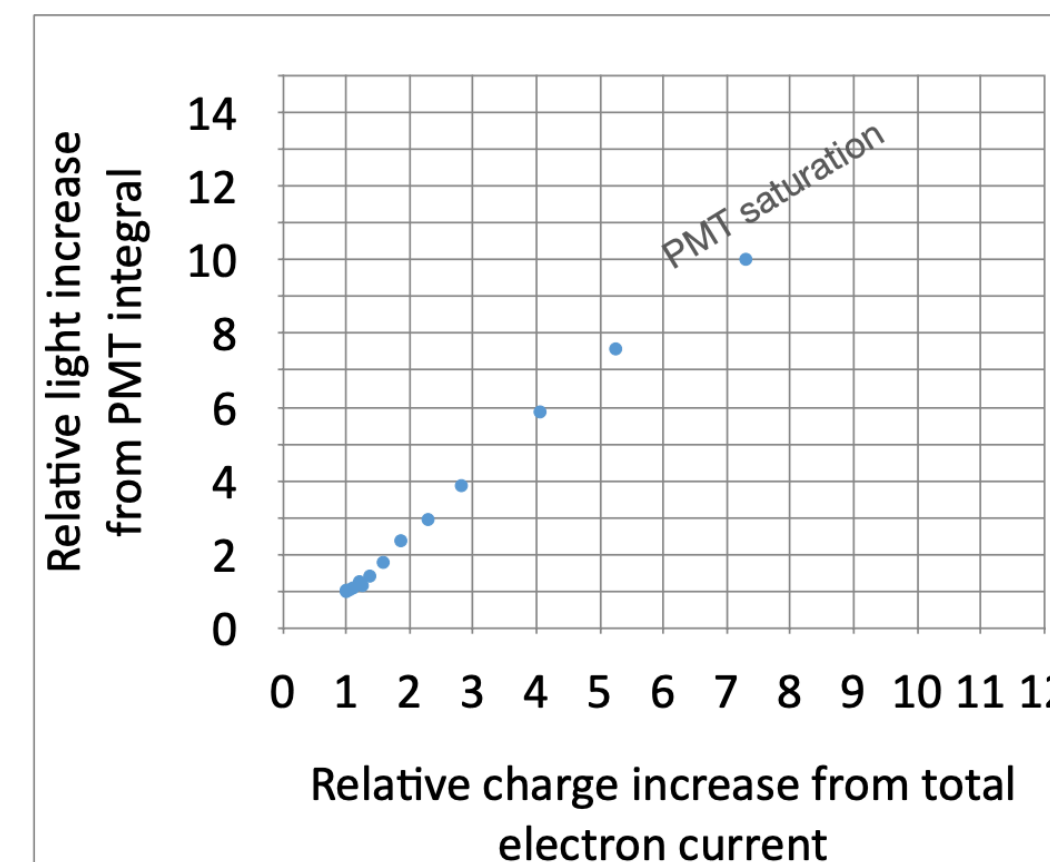
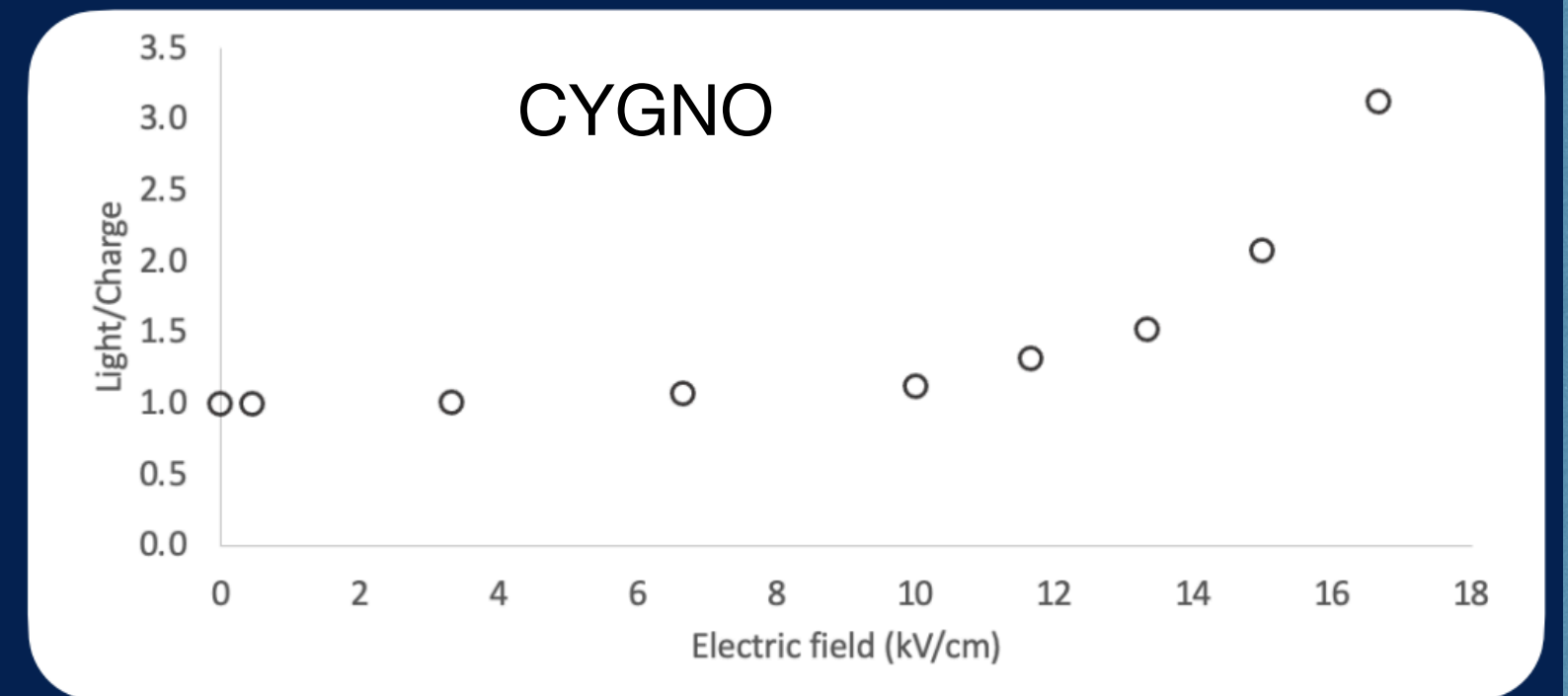
- We had a meeting with RD51 people about Luminesce studies



Light/charge ratio as a function of GEM gain (Fraga et al)

- They see a very small increase in the light/charge ratio (they only reached less the 10 kV/cm)

Ratio between photons and electrons is not constant, nor linear.



Seminars and Conferences

TIPP 2021

International Conference on Technology
and Instrumentation in Particle Physics

Deadline for abstract submission is **February 7, 2021**

CPAD Instrumentation Frontier Workshop 2021

• Abstract Submission Deadline: **February 22, 2021**

Virtual Event @ Stony Brook University, March 18-22, 2021

I propose to submit a general paper and focused ones any volunteer?

RD51 Workshop on Gaseous Detector Contributions to PID

16-17 February 2021
remote-only
Europe/Zurich timezone

Search

Emanuele is going
to send an
Abstract

CYGNO Seminar at INFN-RM1 on March 29th

Meeting with organising committee last Monday

Classify events by the recoil particle ID and energy. There are electrons and He nucleus and energies in the range 1, 3, 6, 10, 30 keV - 10 classes in total. Your objective is to create a model that, given an event, outputs the particle type and energy.

We split those classes into training classes and test classes, with 3, 10 keV electrons and 1, 6, 30 keV He being training classes and the rest five being the test classes.

Energy, keV	He	e
1	*	-
3	-	*
6	*	-
10	-	*
30	*	-

* is training; - is testing



- 1k physical events per type-energy bin and 2k-5k images
- Images differ by randomly drawn particle angle and camera noise
- add samples for 20 keV

Thanks to Giulia and Flaminia that are producing the needed samples