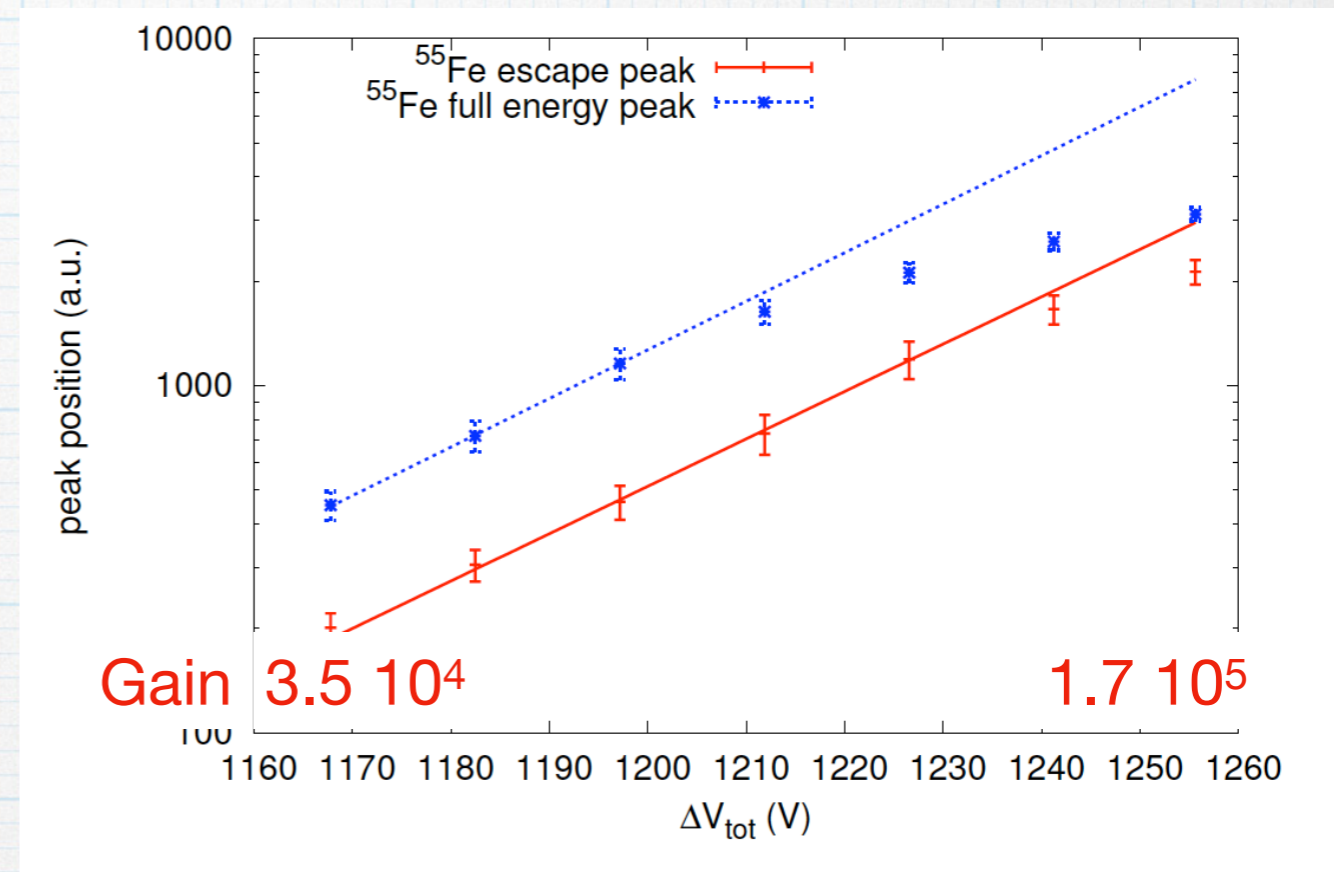
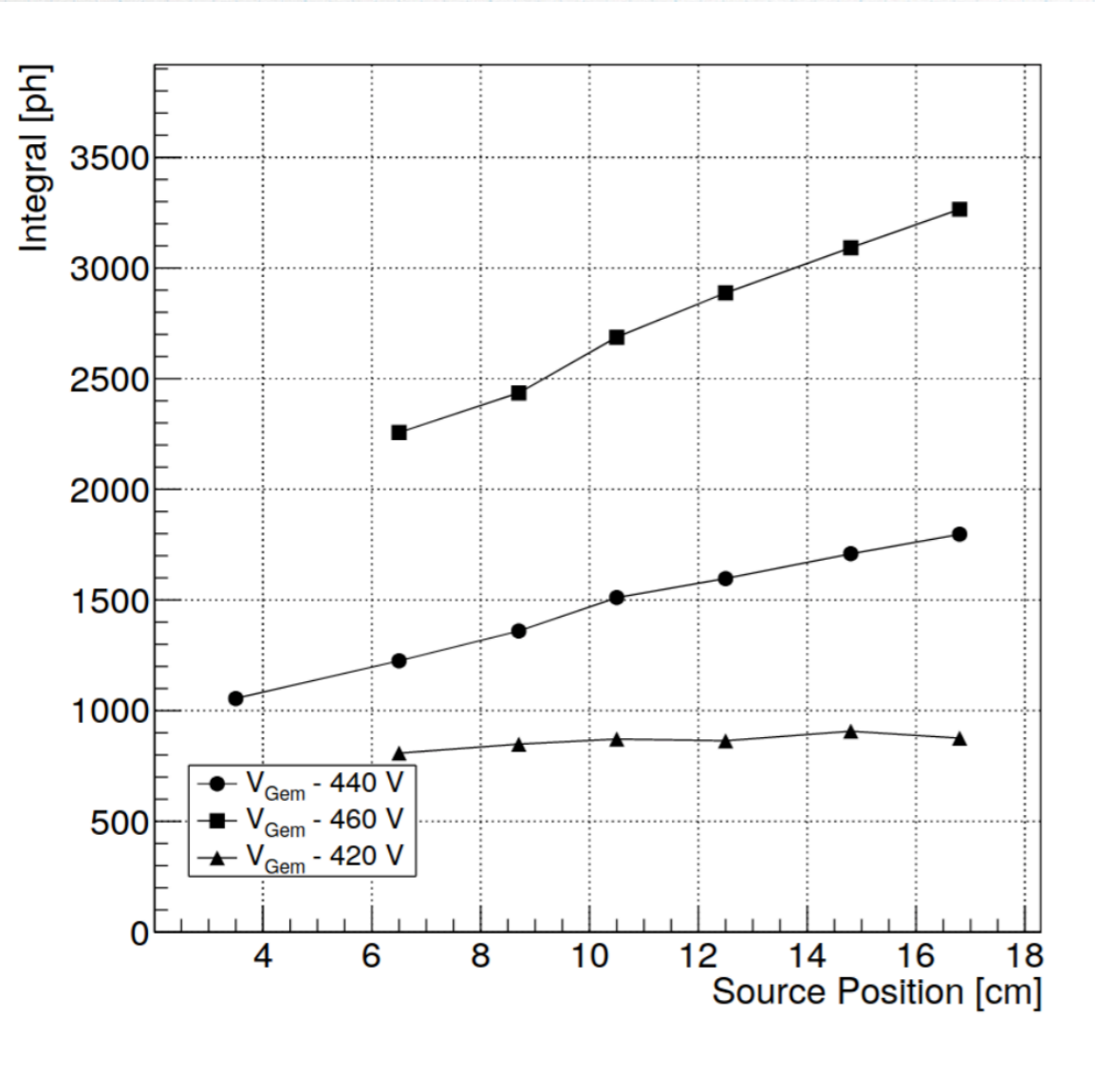


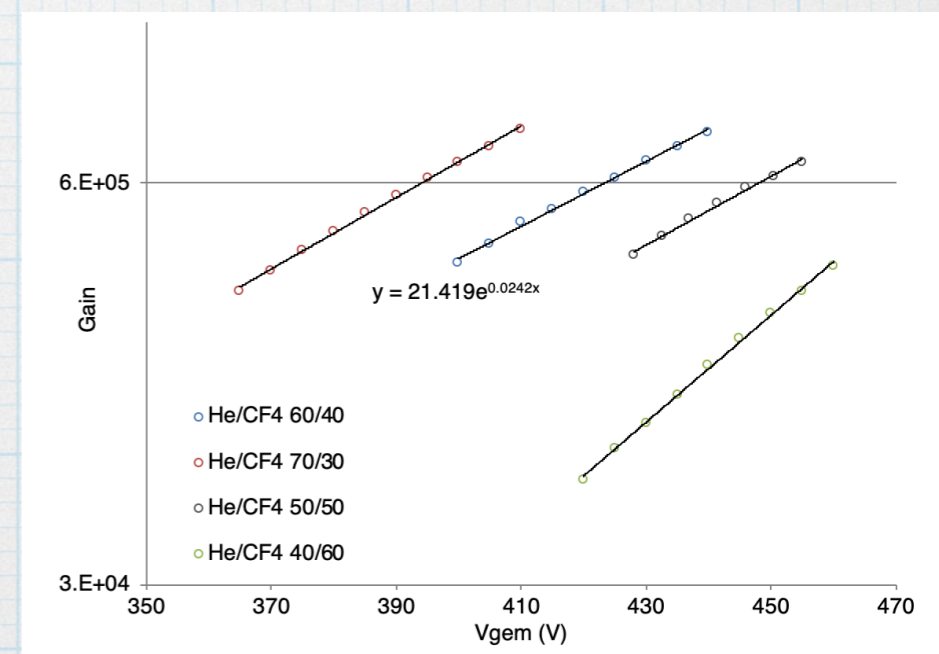
Test Plan

The saturation effect



We are working at a gain 8 times higher

The energy scale can be completely wrong for nuclear recoils



Test plan

There are several ideas to:

- evaluate the effect (how far we are from linearity) with X ray tube;
- evaluate the possibility of compensating it (by looking at the GEM2/GEM3 ratio);
- evaluate new technology to lower electron gain and produce light by means of electro-luminescence

Measurement	Prototype	Where	Lab	Source	Gases	Time Needed	When	CMOS
CMOS performance	LEMON	LNF	Bunker	55Fe	Pure	1 d	20 Feb	Compact Teledyne
CMOS performance	LEMON	LNF	Bunker	55Fe	Pure	1 d	21 Feb	Hamamatsu Bare
CMOS radioactivity	No	LNGS	Mattias's	No	No	5 d	13-18 Feb	Compact Teledyne
CMOS radioactivity	No	LNGS	Mattias's	No	No	5 d	>20 Feb	Hamamatsu Fusion
LIME Tests	LIME	LNF	Clean Room	55Fe, Cosmics	?	1 Month	March	Hamamatsu ORCA
COBRA	MANGO	LNF				4 d	4-7 Feb	Hamamatsu Fusion
Linearity	ORANGE-NET	LNF	ASTRA	X-ray tube + 55Fe	Pre-Mixed	5 d	2-6 March	Hamamatsu ORCA
Linearity	LEMON	LNF	Bunker	55Fe	Pure	1d	24-28 Feb	Picoammeter
Electro-luminescence	OR4NGE	LNF	Bunker	55Fe	Pure	1d	24-28 Feb	Hamamatsu ORCA
Electro-luminescence	MANGO	LNF/LNGS	Bunker	55Fe	Pure/premixed	2 d/ ???	13-14 Feb	Hamamatsu ORCA