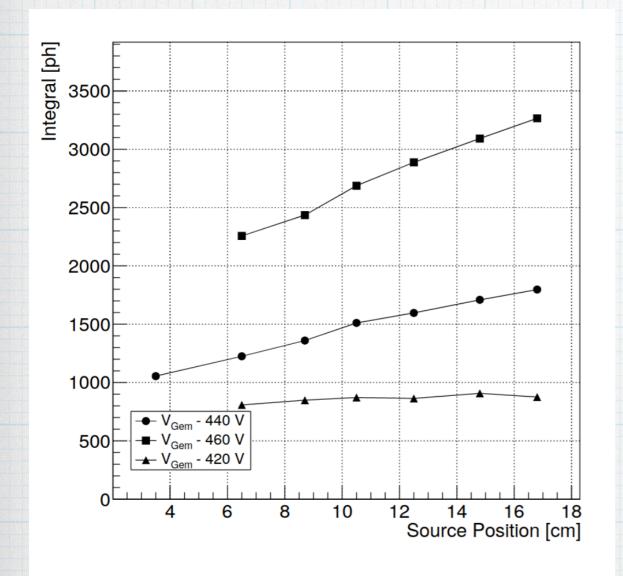
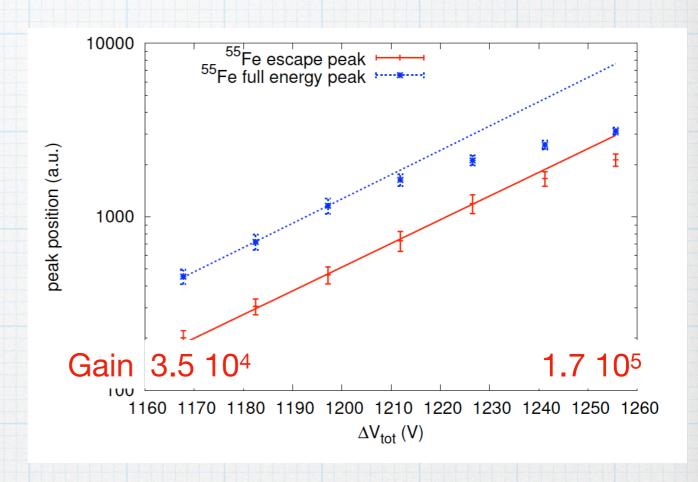
Test Plan

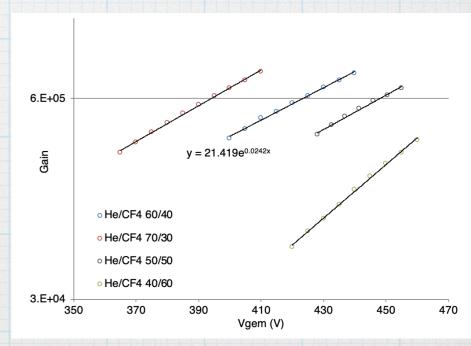
The saturation effect





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

Prototype	Where	Lab	Source	Gases	Time Needed	When	CMOS
LEMON	LNF	Bunker	55Fe	Pure	1 d	20 Feb	Compact Teledyne
LEMON	LNF	Bunker	55Fe	Pure	1 d	21 Feb	Hamamatsu Bare
No	LNGS	Mattias's	No	No	5 d	13-18 Feb	Compact Teledyne
No	LNGS	Mattias's	No	No	5 d	>20 Feb	Hamamatsu Fusion
LIME	LNF	Clean Room	55Fe, Cosmics	?	1 Month	March	Hamamatsu ORCA
MANGO	LNF				4 d	4-7 Feb	Hamamatsu Fusion
ORANGE-NET	LNF	ASTRA	X-ray tube + 55Fe	Pre-Mixed	5 d	2-6 March	Hamamatsu ORCA
LEMON	LNF	Bunker	55Fe	Pure	1d	24-28 Feb	Picoammeter
OR4NGE	LNF	Bunker	55Fe	Pure	1d	24-28 Feb	Hamamatsu ORCA
MANGO	LNF/LNGS	Bunker	55Fe	Pure/premixed	2 d/ ???	13-14 Feb	Hamamatsu ORCA
	LEMON LEMON No No LIME MANGO ORANGE-NET LEMON OR4NGE	LEMON LNF LEMON LNF No LNGS No LNGS LIME LNF MANGO LNF ORANGE-NET LNF LEMON LNF OR4NGE LNF	LEMON LNF Bunker LEMON LNF Bunker No LNGS Mattias's No LNGS Mattias's LIME LNF Clean Room MANGO LNF ORANGE-NET LNF ASTRA LEMON LNF Bunker OR4NGE LNF Bunker	LEMON LNF Bunker 55Fe LEMON LNF Bunker 55Fe No LNGS Mattias's No No LNGS Mattias's No LIME LNF Clean Room 55Fe, Cosmics MANGO LNF ORANGE-NET LNF ASTRA X-ray tube + 55Fe LEMON LNF Bunker 55Fe OR4NGE LNF Bunker 55Fe	LEMON LNF Bunker 55Fe Pure LEMON LNF Bunker 55Fe Pure No LNGS Mattias's No No No LNGS Mattias's No No LIME LNF Clean Room 55Fe, Cosmics ? MANGO LNF ORANGE-NET LNF ASTRA X-ray tube + 55Fe Pre-Mixed LEMON LNF Bunker 55Fe Pure OR4NGE LNF Bunker 55Fe Pure	PrototypeWhereLabSourceGasesNeededLEMONLNFBunker55FePure1 dLEMONLNFBunker55FePure1 dNoLNGSMattias'sNoNo5 dNoLNGSMattias'sNoNo5 dLIMELNFClean Room55Fe, Cosmics?1 MonthMANGOLNF4 dORANGE-NETLNFASTRAX-ray tube + 55FePre-Mixed5 dLEMONLNFBunker55FePure1dOR4NGELNFBunker55FePure1d	Prototype Where Lab Source Gases Needed When LEMON LNF Bunker 55Fe Pure 1 d 20 Feb LEMON LNF Bunker 55Fe Pure 1 d 21 Feb No LNGS Mattias's No No 5 d >20 Feb LIME LNF Clean Room 55Fe, Cosmics ? 1 Month March MANGO LNF ASTRA X-ray tube + 55Fe Pre-Mixed 5 d 2-6 March LEMON LNF Bunker 55Fe Pure 1d 24-28 Feb OR4NGE LNF Bunker 55Fe Pure 1d 24-28 Feb