

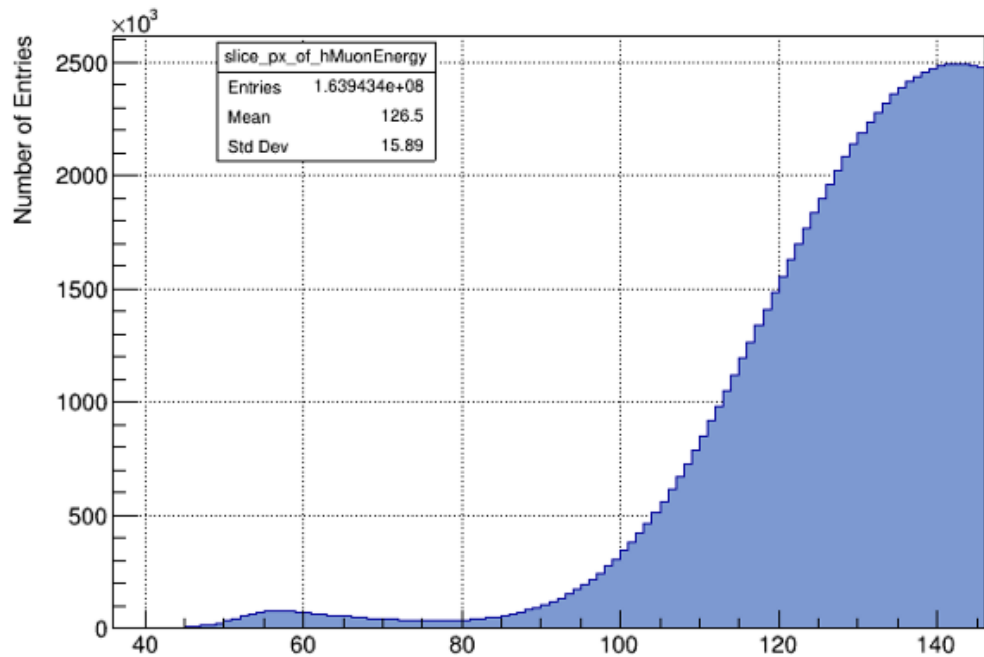
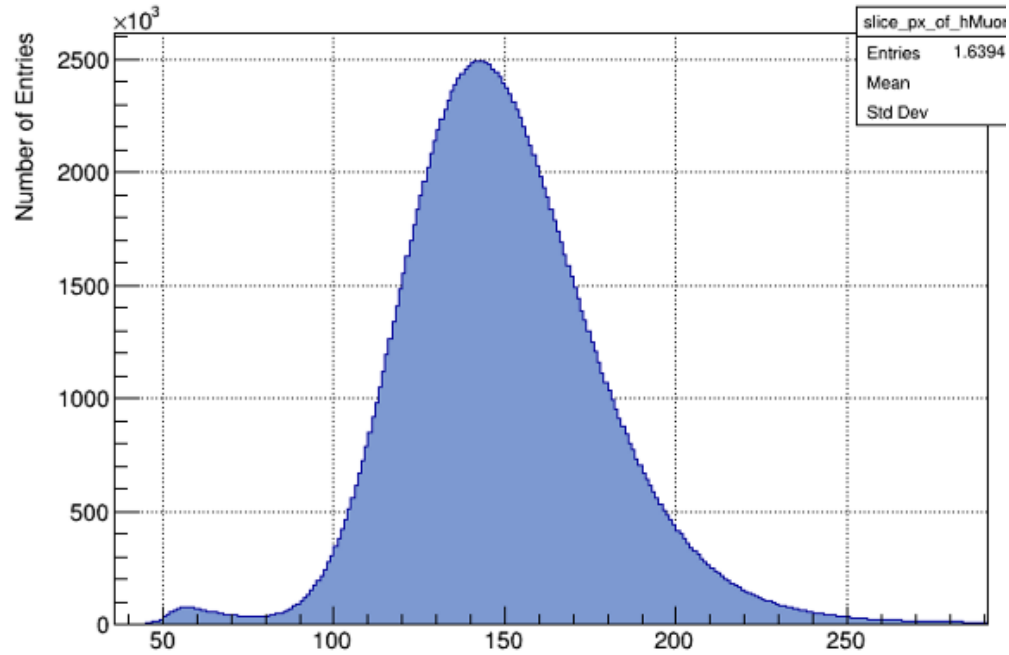
# Update muX meeting 22/03

Marie Deseyn

# Scintillator thresholds



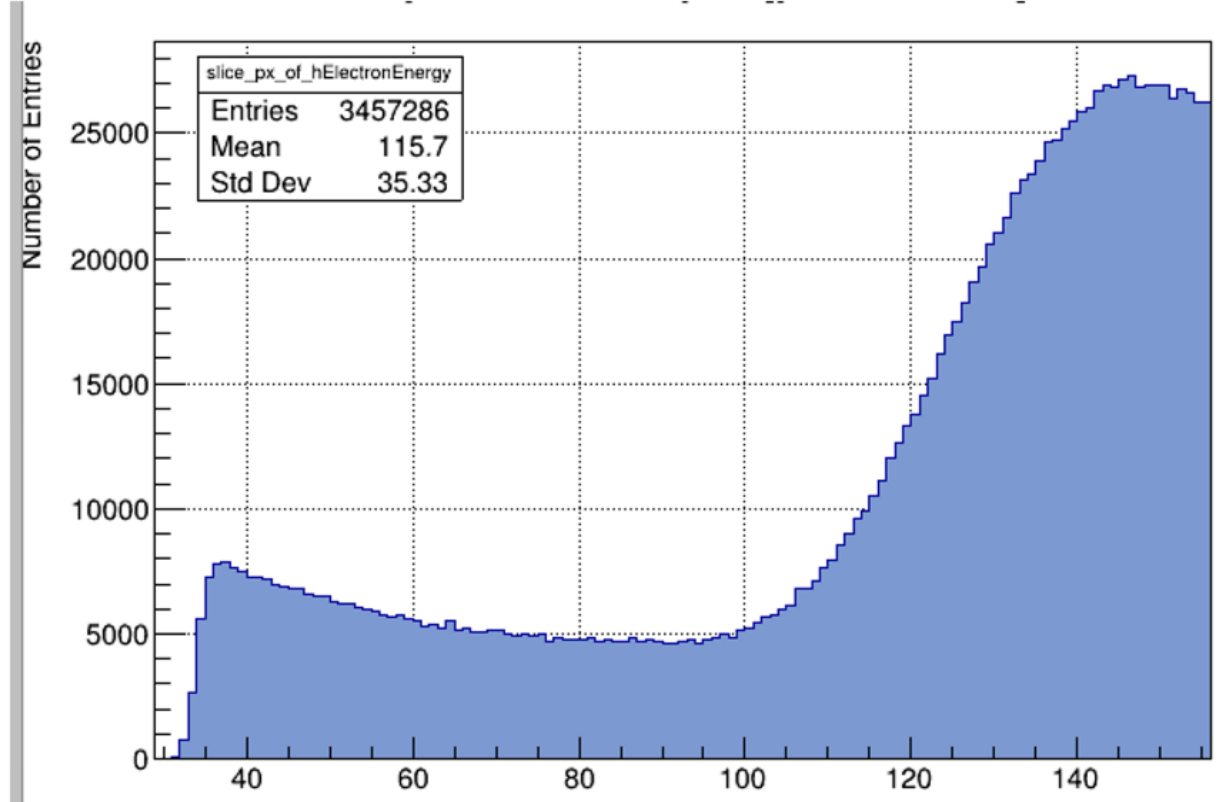
Muon entrance: 85



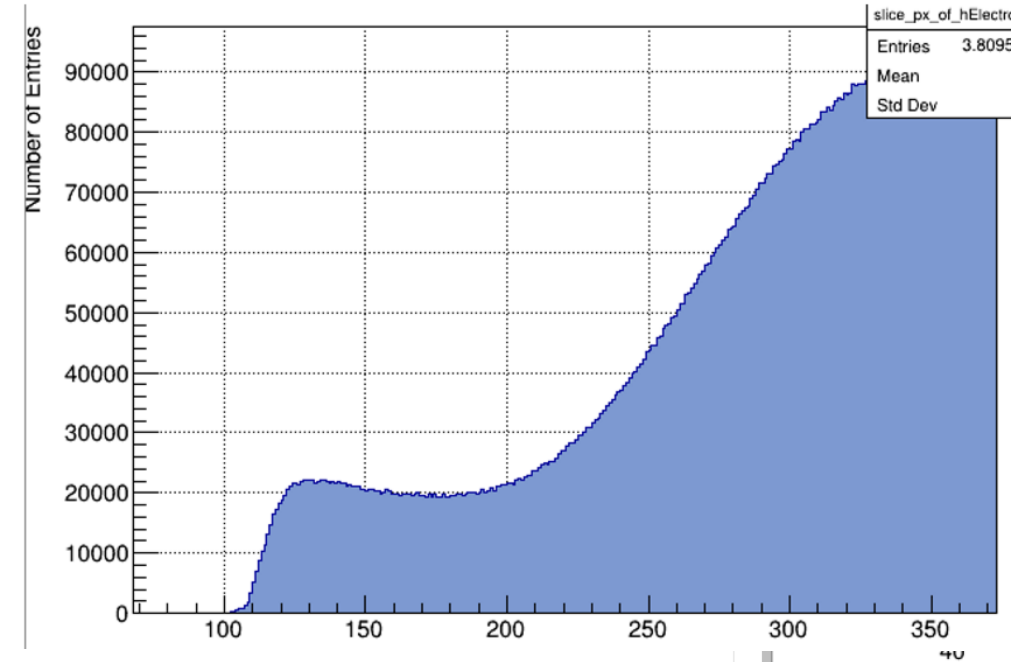
VETO BACK:

Was not connected... 🙄

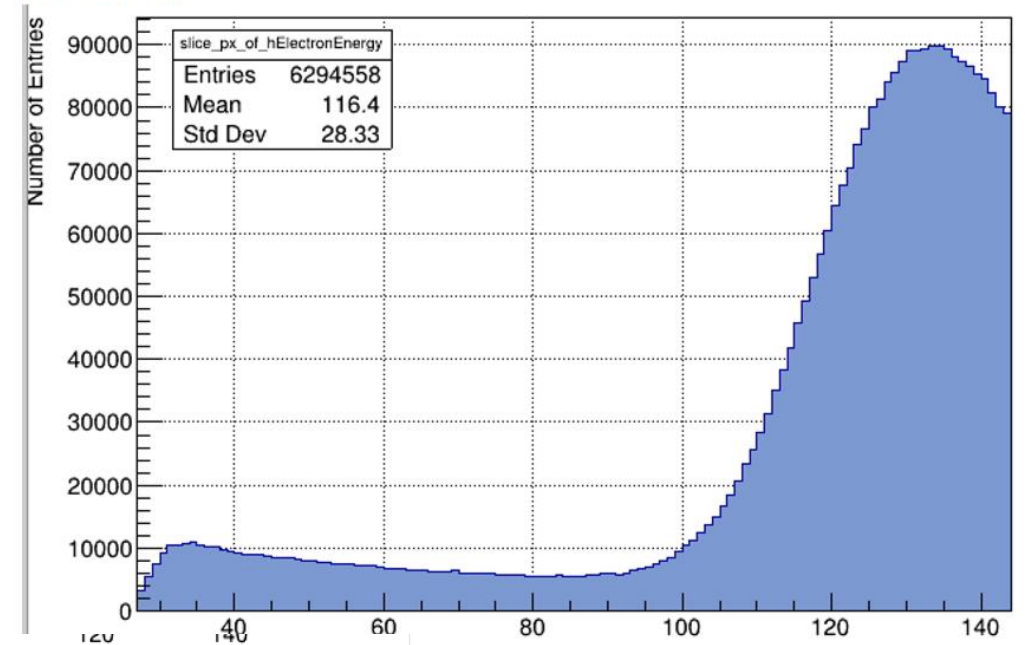
VETO Bottom: 100



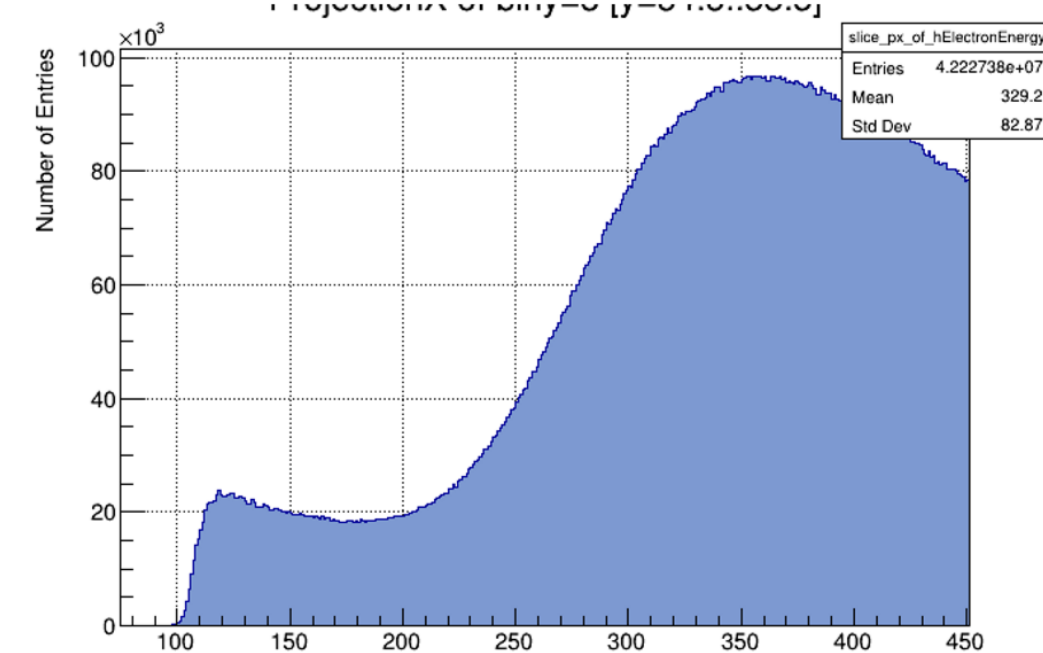
VETO RIGHT: 200



VETO TOP: 90



VETO LEFT: 200



# Pb-Au data



# Pb-Au data



- Au target and Pb on the veto
- Judith Vankeirsbilck will take it to PSI (she is travelling today)
- Can she give it to Klaus?

# Pb-Au data

16	58039	58070	nat Au thick	27.5 MeV/c	beam on gold without window 27.5 MeV/c beam on thick gold and some beam tuning happening at the same time
23	58097	58105	nat Au thick	27.5 MeV/c	window mounted, used by Marie for the Au efficiency at 6 MeV
25	58107	58107	nat Au thick	27.5 MeV/c	changed muon threshold
26	58108	58114	nat Au thick	27.5 MeV/c	Testing new threshold + slit optimization
27	58115	58141	50-nm Au (K023)	27.5 MeV/c	First transfer measurements
28	58146	58155	50-nm Au (K023)	27.5 MeV/c	Additional data after noise hunting, clock troubles
29	58156	58169	50-nm Au (K023)	27.5 MeV/c	fixed clock and after noise hunting
30	58170	58191	50-nm Au (K023)	28.0 MeV/c	
31	58192	58218	50-nm Au (K023)	27.0 MeV/c	
32	58221	58245	nat Au thick	27.5 MeV/c	
33	58246	58248	nat Au thick	27.5 MeV/c	After changing slightly the energy calibration based on gold
34	58249	58256	nat Au thick	?	low muon rate and tests to understand what's wrong – so some of those are bad runs
35	58257	58267	nat Au thick	27.5 MeV/c	Continue after restoring muon rates
...	.....	.....	.....	.....	.....

Run 58297: replaced Pb on veto with Au

Was Au again replaced after Ra with Pb?

64	60902	60904	thick Au in air	30 MeV/c	
65	60905	60908	thick Au in air	27.5 / MeV/c	checked the yield of gold xrays
66	60909	60934	thick Au in air	30 MeV/c	

# GEANT4





# Geant4

Copy number	Corresponding detector
0	Leuven 75%
1	Leuven 70%
2	Romanian 100% det1
3	Romanian 100% det2
4	IFIN Clover A
5	IFIN Clover B
6	IFIN Clover C
7	IFIN Clover D
8	REGE7023MIXE
9	BEGE3820a
10	BEGE3820b
11	REGE7023MuX
12	MINIBALL A
13	MINIBALL B
14	MINIBALL C

## Overview detectors muX

Name	Extra information	Owner	Contact person
BEGE3820	20% BEGe	MIXE PSI	<a href="mailto:michael.heiss@psi.ch">michael.heiss@psi.ch</a>
REGE9524	90% REGe coaxial	TUM	<a href="mailto:elizabeth.mondragon@tum.de">elizabeth.mondragon@tum.de</a>
BEGE3830	34% BEGe	TUM	<a href="mailto:elizabeth.mondragon@tum.de">elizabeth.mondragon@tum.de</a>
Leuven 70%	70% <u>HPGe</u>	KU Leuven	
Coax 5019	50% <u>SEGe</u> coaxial	JINR	<a href="mailto:d.zinatulina@gmail.com">d.zinatulina@gmail.com</a>
Tigress clover	4x ~38% = 152% (~221% with addback) TIGRESS clover	IFIN-HH Romania	<a href="mailto:razvan.lica@nipne.ro">razvan.lica@nipne.ro</a>
<u>Miniball</u>		KU Leuven	
IFIN det2 100%	100% coaxial	IFIN-HH Romania	<a href="mailto:razvan.lica@nipne.ro">razvan.lica@nipne.ro</a>
BEGE3820	20% BEGe	MIXE PSI	<a href="mailto:michael.heiss@psi.ch">michael.heiss@psi.ch</a>
IFIN det1 100%	100% coaxial	IFIN-HH Romania	<a href="mailto:razvan.lica@nipne.ro">razvan.lica@nipne.ro</a>
REGE7023	70% REGe coaxial	<u>muX</u> PSI	<a href="mailto:a.knecht@psi.ch">a.knecht@psi.ch</a>
Leuven 75%	70% <u>HPGe</u>	KU Leuven	
REGE7023	70% REGe coaxial	MIXE PSI	<a href="mailto:michael.heiss@psi.ch">michael.heiss@psi.ch</a>
Electro cooled	GC5019 ("Rasputin")	JINR	<a href="mailto:d.zinatulina@gmail.com">d.zinatulina@gmail.com</a>

# Geant4

- Length of the snout of Miniball?

