

EXP1904: Reference reaction - Analyzing #395

Analyzing # 436 (Открыта): Reference reaction: Data analysis

Analyzing # 459 (Открыта): Beam of 10Be

Beam energy

11/14/2019 02:07 PM - Vratislav Chudoba

Status:	Открыта	Start date:	11/14/2019
Priority:	Нормальный	Due date:	
Assignee:	Ivan Muzalevsky	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
Provide the 1D plot with the distribution of the reconstructed beam energy (in MeV)			
- reconstructed directly from ToF; - reconstructed for the (x,y,0) plane (center of the target plane);			
Provide parameters used for the reconstruction in the comment.			

History

#1 - 11/15/2019 09:51 AM - Ivan Muzalevsky

- Description updated
- % Done changed from 0 to 100

#2 - 11/15/2019 10:00 AM - Ivan Muzalevsky

Andrey Fomichev wrote:

Ivan, could you please indicate units for Energu scale.

As it was asked in the issue description, all energies are in MeV

#3 - 04/23/2020 12:51 AM - Vratislav Chudoba

- Description updated
- Parent task changed from #393 to #459

#4 - 04/23/2020 01:06 AM - Vratislav Chudoba

- Project changed from EXP1904 to EXP1904: Reference reaction

#5 - 04/27/2020 08:51 PM - Ivan Muzalevsky

parameters used for the reconstruction:

- ToF time constant: 68.475 ns
- ToF distance: 12320 mm
- thickness of the materials used for the reconstruction of the beam energy in the target plane in form of table

order	material
1	Si

Energy of ^{10}Be (MeV) in the second ToF plane (calculated from the ToF without reducing by the beam det energy deposits)

Screenshot%20from%202020-04-27%2020-49-53.png

Energy of the ^{10}Be (MeV) at the central target plane (calculated by ToF and reduced by the energy deposit in the 630 microns of Si)

Screenshot%20from%202020-04-27%2020-48-53.png