

EXP1904: Reference reaction - Analyzing #417

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

Analyzing # 459 (Открыта): Beam of ^{10}Be

Estimation of the ^{10}Be beam trigger scale coefficient from experimental data

01/17/2020 09:37 AM - Vratislav Chudoba

Status:	Открыта	Start date:	01/17/2020
Priority:	Нормальный	Due date:	
Assignee:	Ivan Muzalevsky	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
Make an estimation of the beam trigger scale coefficient from experimental data in the following way. Obtain the numbers of beam triggers for the ^{10}Be cut reported in task 394 and compare them with those reported in task 412 . Integrals calculated using the " 412 " method are not exact but numbers should be comparable at a reasonable degree. As a result, hypothesis of the employed scale coefficient 16x256 should be verified. Results for all three expositions should be reported in one comment.			
Related issues:			
Related to Analyzing #412: Estimation of beam intensity from logbook			Открыта 01/13/2020

History

#1 - 01/17/2020 09:37 AM - Vratislav Chudoba

- Related to Analyzing #412: Estimation of beam intensity from logbook added

#2 - 01/17/2020 09:56 AM - Ivan Muzalevsky

Result

It was verified that the beam trigger scale coefficient is 16x256.

Thick target

10745948 beam triggers
52874603 other triggers (2,3,4,5)

which corresponds to 44.068.277.611 particles

Thin target

1673150 beam triggers
7699524 other triggers (2,3,4,5)

which corresponds to 6.860.921.924 particles

Empty target

5264861 beam triggers
19964277 other triggers (2,3,4,5)

which corresponds to 21.584.834.933 particles

#3 - 01/18/2020 08:41 AM - Ivan Muzalevsky

- Status changed from *Открыта* to *Закрыта*
- % Done changed from 0 to 100

#4 - 04/24/2020 02:05 AM - Vratislav Chudoba

- Project changed from *EXP1904* to *EXP1904: Reference reaction*
- Subject changed from *Estimation of the beam trigger scale coefficient from experimental data* to *Estimation of the ^{10}Be beam trigger scale coefficient from experimental data*
- Parent task changed from #393 to #459

#5 - 04/24/2020 02:05 AM - Vratislav Chudoba

- Related to Analyzing #412: *Estimation of beam intensity from logbook added*

#6 - 05/01/2020 12:52 PM - Ivan Muzalevsky

- Status changed from *Закрыта* to *Открыта*
- % Done changed from 100 to 50

#7 - 05/02/2020 02:30 AM - Vratislav Chudoba

- % Done changed from 50 to 100