

## EXP1904: Reference reaction - Analyzing #417

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

Analyzing # 459 (Открыта): Beam of 10Be

### Estimation of the 10Be beam trigger scale coefficient from experimental data

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

<b>Status:</b>	Открыта	<b>Start date:</b>	01/17/2020
<b>Priority:</b>	Нормальный	<b>Due date:</b>	
<b>Assignee:</b>	Ivan Muzalevsky	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
Make an estimation of the beam trigger scale coefficient from experimental data in the following way.  Obtain the numbers of beam triggers for the $^{10}\text{Be}$ cut reported in <a href="#">task 394</a> and compare them with those reported in <a href="#">task 412</a> . 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.			
<b>Related issues:</b>			
Related to Analyzing #412: Estimation of beam intensity from logbook		<b>Открыта</b>	<b>01/13/2020</b>

#### 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  $^{10}\text{Be}$  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