

EXP1904: Reference reaction - Analyzing #414

Analyzing # 397 (Открыта): Variation of the parameters

Offsets of the 3He telescope

01/13/2020 04:35 PM - Vratislav Chudoba

| | | | |
|--|-----------------|------------------------|------------|
| Status: | Открыта | Start date: | 01/13/2020 |
| Priority: | Нормальный | Due date: | |
| Assignee: | Ivan Muzalevsky | % Done: | 100% |
| Category: | | Estimated time: | 0.00 hour |
| Target version: | | | |
| Description | | | |
| Treat the data on thick target only and vary X and Y offsets of the ^3He detector system (consisting of 4 telescopes). We assume that the relative position of individual telescopes is fixed and corresponding to the drawing provided in task 293 . | | | |
| The offsets (in mm) should be varied in the following way: | | | |
| <ul style="list-style-type: none">• (-4,0), (-3,0), ..., (3,0), (4,0);• (0,-4), ..., (0,4); | | | |
| Provide mean values for peaks (from each telescope) corresponding to the population of the ground state in the form of the table. | | | |
| All other parameters should be the same as in the mother task. | | | |

History

#1 - 01/20/2020 11:53 PM - Ivan Muzalevsky

- % Done changed from 0 to 50

#2 - 04/21/2020 10:33 PM - Ivan Muzalevsky

| Offset of the detectors system along X axis, mm | ^9Li g.s. position 1 Tel [MeV] | ^9Li g.s. position 2 Tel [MeV] | ^9Li g.s. position 3 Tel [MeV] | ^9Li g.s. position 4 Tel [MeV] | ^9Li g.s. position [MeV] |
|---|---|---|---|---|-----------------------------------|
| +4 | 0.231 | 0.501 | -0.272 | 0.008 | 0.109 |
| +2 | 0.059 | 0.432 | -0.091 | 0.083 | 0.111 |
| 0 | -0.118 | 0.359 | 0.085 | 0.149 | 0.107 |
| -2 | -0.301 | 0.277 | 0.252 | 0.209 | 0.095 |
| -4 | -0.491 | 0.189 | 0.416 | 0.266 | 0.079 |

| Offset of the detectors system along Y axis, mm | ^9Li g.s. position 1 Tel [MeV] | ^9Li g.s. position 2 Tel [MeV] | ^9Li g.s. position 3 Tel [MeV] | ^9Li g.s. position 4 Tel [MeV] | ^9Li g.s. position [MeV] |
|---|---|---|---|---|-----------------------------------|
| +4 | -0.271 | 0.713 | 0.222 | -0.207 | 0.089 |
| +2 | -0.192 | 0.539 | 0.155 | -0.023 | 0.101 |
| 0 | -0.118 | 0.359 | 0.085 | 0.149 | 0.107 |
| -2 | -0.051 | -0.17 | 0.006 | 0.316 | 0.105 |
| -4 | 0.009 | -0.026 | -0.079 | 0.478 | 0.097 |

#3 - 04/27/2020 06:16 PM - Ivan Muzalevsky

- *Description updated*

#4 - 05/01/2020 04:38 PM - Vratislav Chudoba

- *% Done changed from 50 to 100*