

## EXP\_6Be - Developing #433

Developing # 430 (Открыта): Simulations

### ER simulation macro

01/30/2020 05:19 PM - Vratislav Chudoba

<b>Status:</b>	Открыта	<b>Start date:</b>	01/30/2020
<b>Priority:</b>	Нормальный	<b>Due date:</b>	
<b>Assignee:</b>	Konstantin Limarev	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
<p>Basing on the example of already working simulation of EXP1904 prepare macro for simulation of this experiment. We will consider binary reaction</p>			
${}^6\text{Li} + p \rightarrow {}^6\text{Be} + n$			
<p>with immediate decay of <math>{}^6\text{Be} \rightarrow {}^4\text{He} + p + p</math>.</p>			
<p>Simulation macro sim_digi.C for EXP1904 may be found in</p>			
<p>expertroot/macro/EXP1904_H7/sim</p>			
<p>branch</p>			
<p>406_exp1904_h7_sim</p>			
<p>The geometrical setup should be constructed according to the <a href="#">last paper on <math>{}^6\text{Be}</math></a>.</p>			
<p>For the beginning:</p>			
<ul style="list-style-type: none"><li>• there is no beam detector;</li><li>• the setup consists of two identical telescopes;</li><li>• the diameter of the beam may be taken as 1 mm;</li><li>• the direction of the beam coincidence with the Z-axis in the laboratory system;</li></ul>			