

1 – 1.5 h

- Preparation for proton beam with Pelletron
  1. Energy calibration with  $\gamma$  sources
  2. Background measurement

0.5 h

Group 1 ( $^{12}\text{C}$ , In-beam, 1 MeV)  
30 min. measurement (beam on)  
-> Save data, bring them to Conf. room

0.5 h

Group 2 ( $^{12}\text{C}$ , Activation, 1 MeV)  
30 min. (5+5+... 10+10+10) measurement  
(beam off)  
-> Save data, bring them to Conf. room

0.5 h

- Change proton energy  
from 1 MeV to 2 MeV

0.5 h

Group 3 ( $^{12}\text{C}$ , In-beam, 2 MeV)  
30 min. measurement (beam on)  
-> Save data, bring them to Conf. room

0.5 h

Group 4 ( $^{12}\text{C}$ , Activation, 2 MeV)  
30 min. (5+5+... 10+10+10,) measurement  
(beam off)  
-> Save data, bring them to Conf. room

0.5 h

- Change target from  $^{12}\text{C}$  to BN
- Change position of detector
- Background measurement

0.5 h

Group 5 (BN, In-beam, 2 MeV)

30 min. measurement (beam on)

-> Save data, bring them to Conf. room

0.5 h

Group 6 (BN, Activation, 2 MeV)

30 min. (5+5+,... 10+10+10,) measurement  
(beam off)

-> Save data, bring them to Conf. room

**Total time = 5 ~ 6 hours**

Maybe, on  
Wednesday

- Efficiency measurement for NaI detector with  $\gamma$  sources at the position of target

## Don't forget

- to record beam intensity time by time (every 5 min.?)
- to record beam on and off time,
- to save data
- to write everything on log-note  
(sometimes, data file are missed if something occurs)