A06: Strong interactions beyond the neutron dripline (Part 1)

Investigation of the ⁴n system by measuring ⁸He(p,pα)⁴n at large momentum transfer

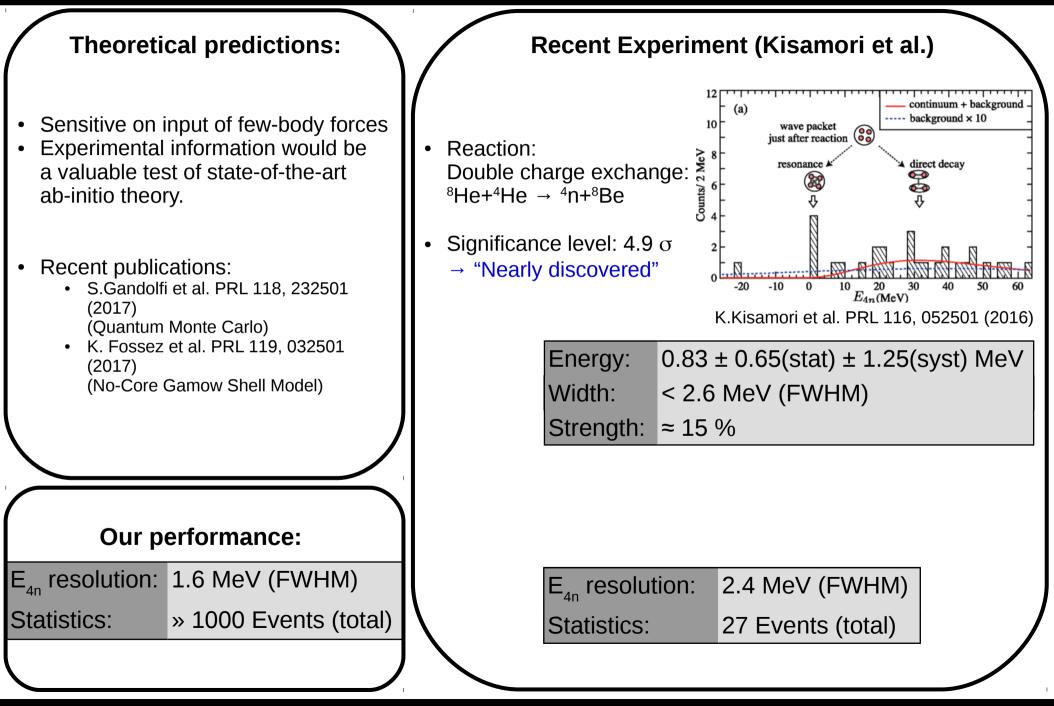
Fabia Schindler

05.10.2017 SFB Workshop Budenheim



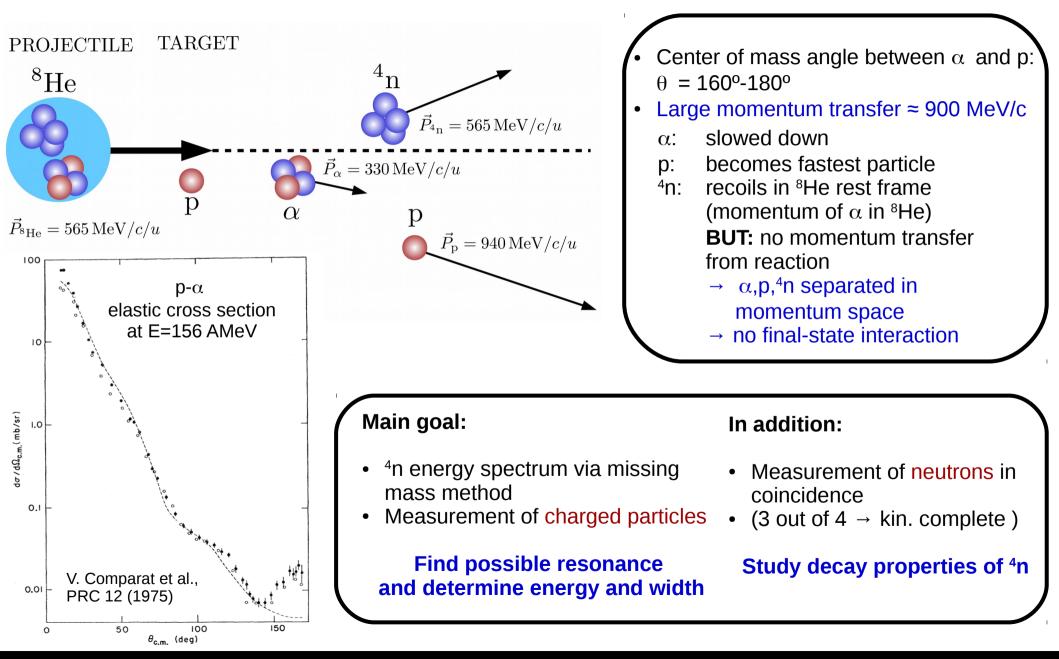


Do four neutrons form a resonant state?



Do four neutrons form a resonant state?

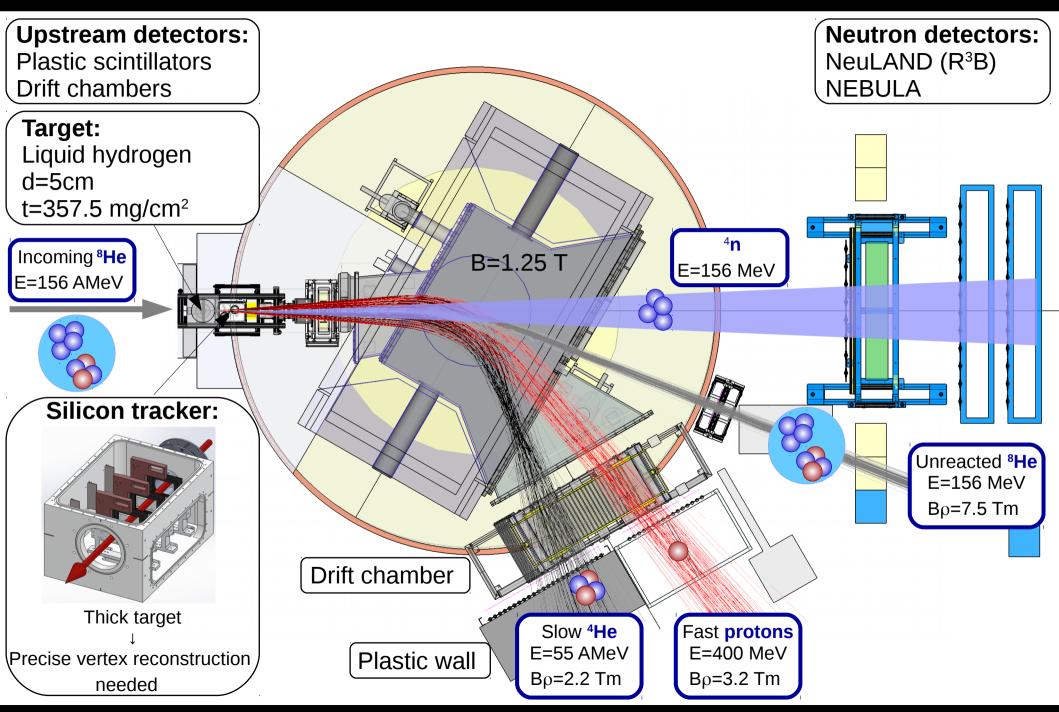
Our Experiment: ⁸He(p,pα)⁴n @ 156 AMeV



Fabia Schindler, TU-Darmstadt, AG Aumann/Scheit

SFB Workshop 2017 Budenheim

Setup: SAMURAI at RIKEN

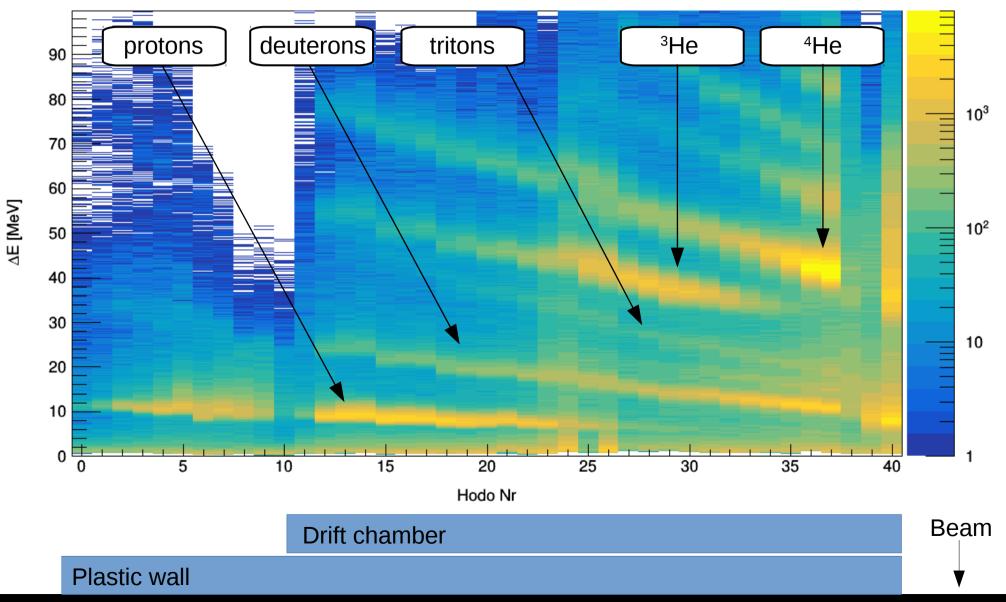


Fabia Schindler, TU-Darmstadt, AG Aumann/Scheit

SFB Workshop 2017 Budenheim

! News !

- Experiment was done... and a success! (26.06-02.07)
- Detectors and people are back home.
- Teaser: Preliminary fragment ID from plastic-wall data:



Fabia Schindler, TU-Darmstadt, AG Aumann/Scheit

SFB Workshop 2017 Budenheim

Thank you for your attention!



