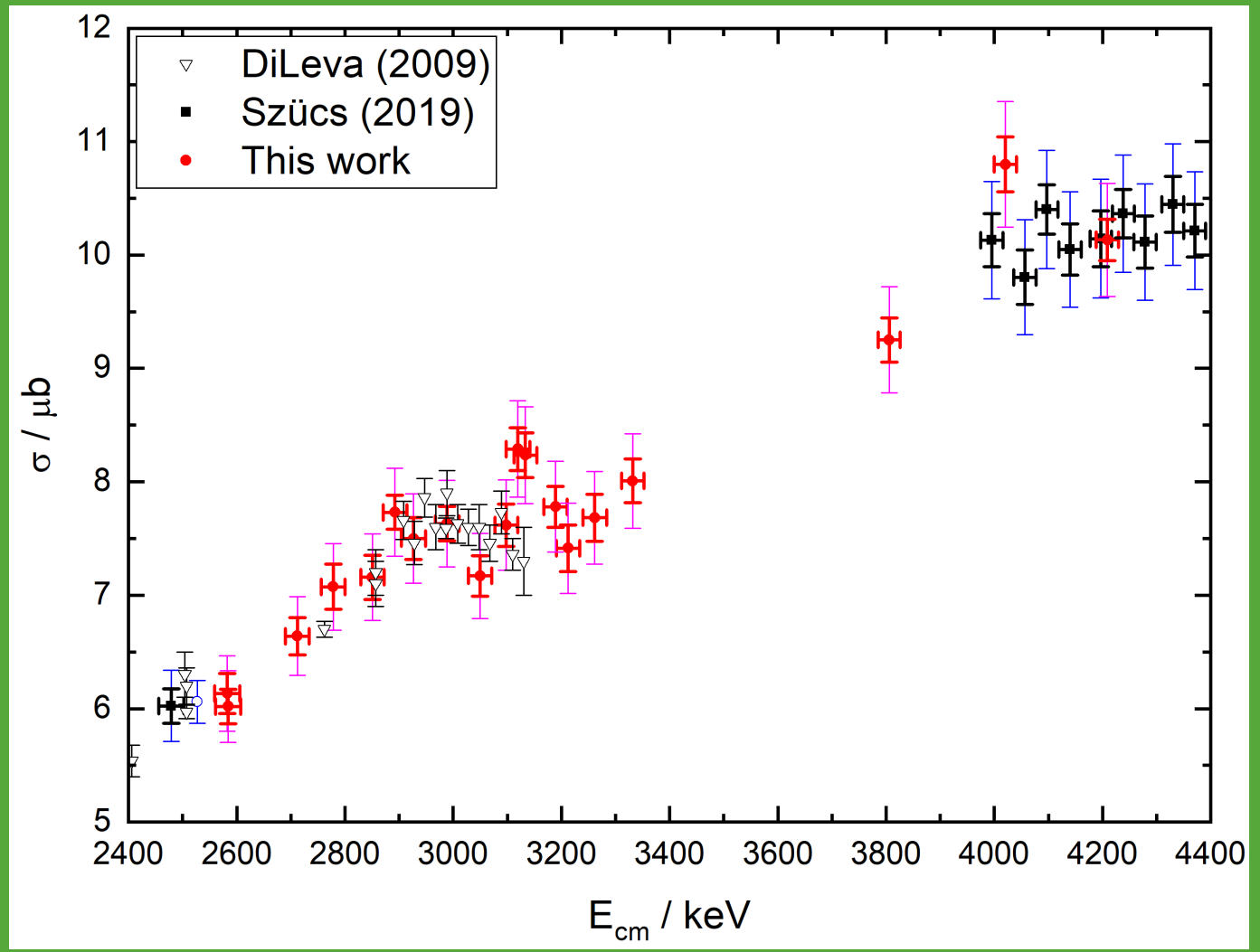
Experimental cross section of the 3He(α,γ)7Be reaction around E_{cm} = 3 MeV

Activation method

Thin windowed gas cell target
- Al catcher foil
- 100 mbar ^{3}He gas
- ~42 mm long gas cell

Cyclotron of Atomki
- E_α = 7 - 11 MeV
- Typical beam current: 0.5 pμA.
- Irradiation lengths: 12 - 24 hours

HPGe for activity determination
- 100% relative efficiency
- 10 cm lead shielding
- ~ 2 weeks of countings



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