

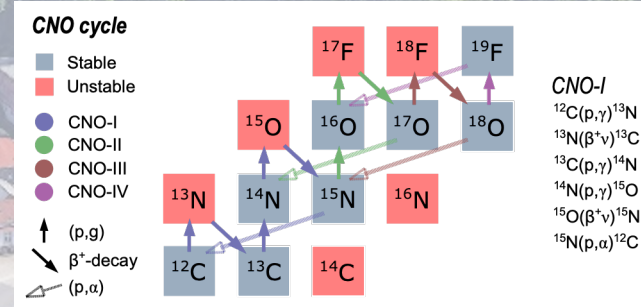
Investigation of excited states in ^{15}O at Agata and Felsenkeller

#314



What controls the evolution of massive stars?

➤ CNO-cycle



Which reaction dominates the lifetime of the cycle?

➤ $^{14}\text{N}(p,\gamma)^{15}\text{O}$

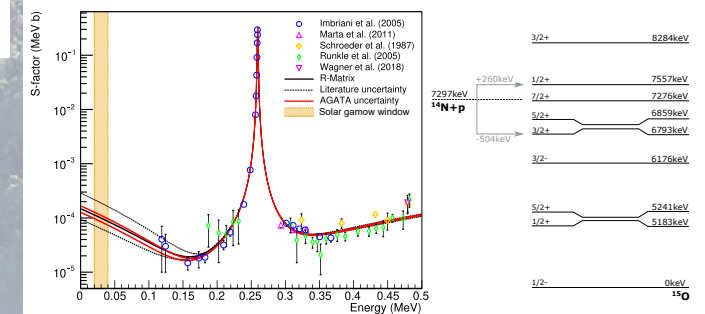
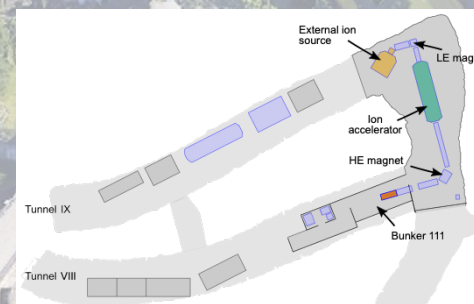
What is the main impact on the uncertainties?

➤ Lifetime of the 6.79 MeV excited state in ^{15}O $\Rightarrow$ sub-fs range

What we did?

➤ Two campaigns :

Dresdener Felsenkeller
(Germany)



Legnaro (Italy)
with
AGATA
 γ -tracking array

