

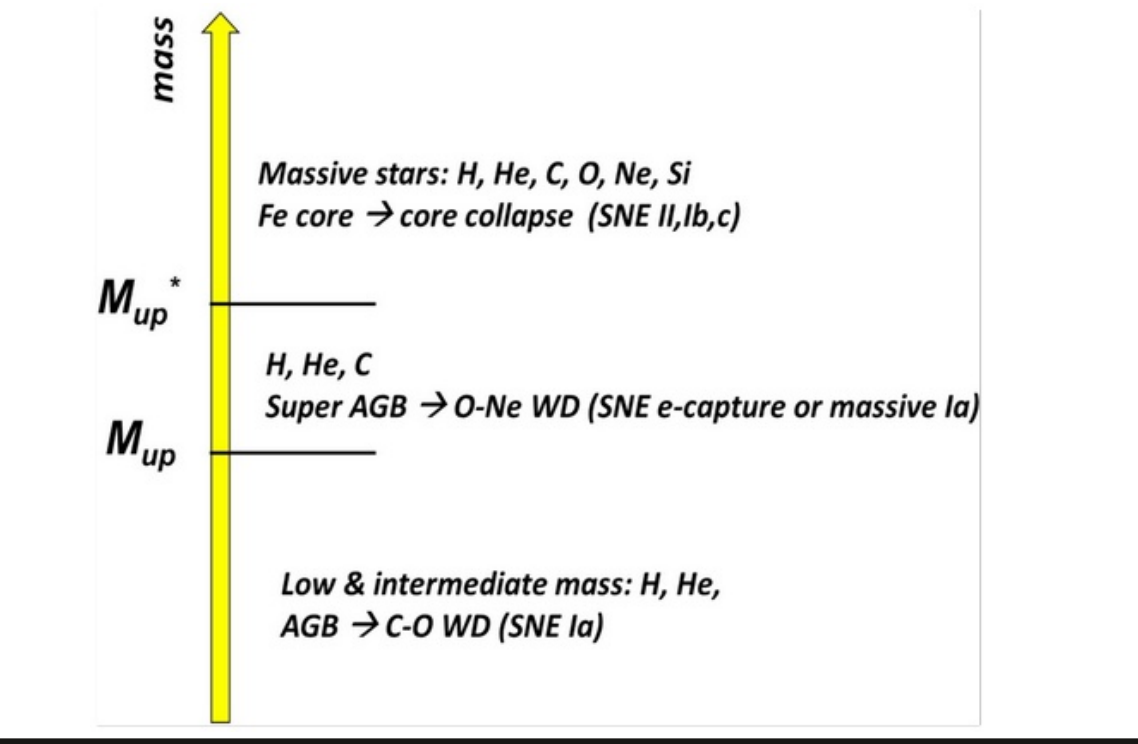
# Direct measurement of the $^{12}\text{C}+^{12}\text{C}$ reaction rate

Riccardo Maria Gesuè<sup>1</sup> for the LUNA collaboration

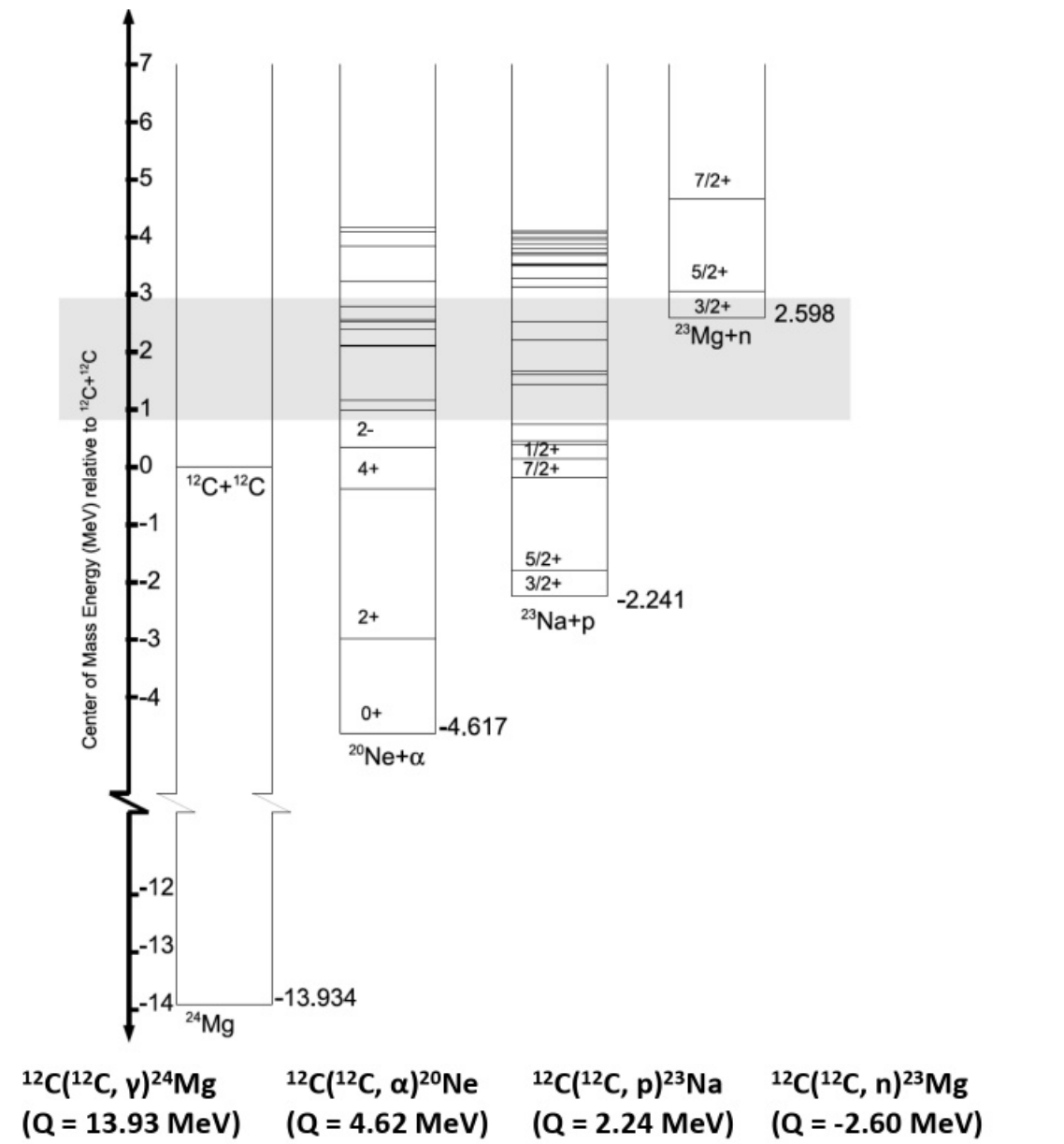
<sup>1</sup> Gran Sasso Science Institute, INFN LNGS

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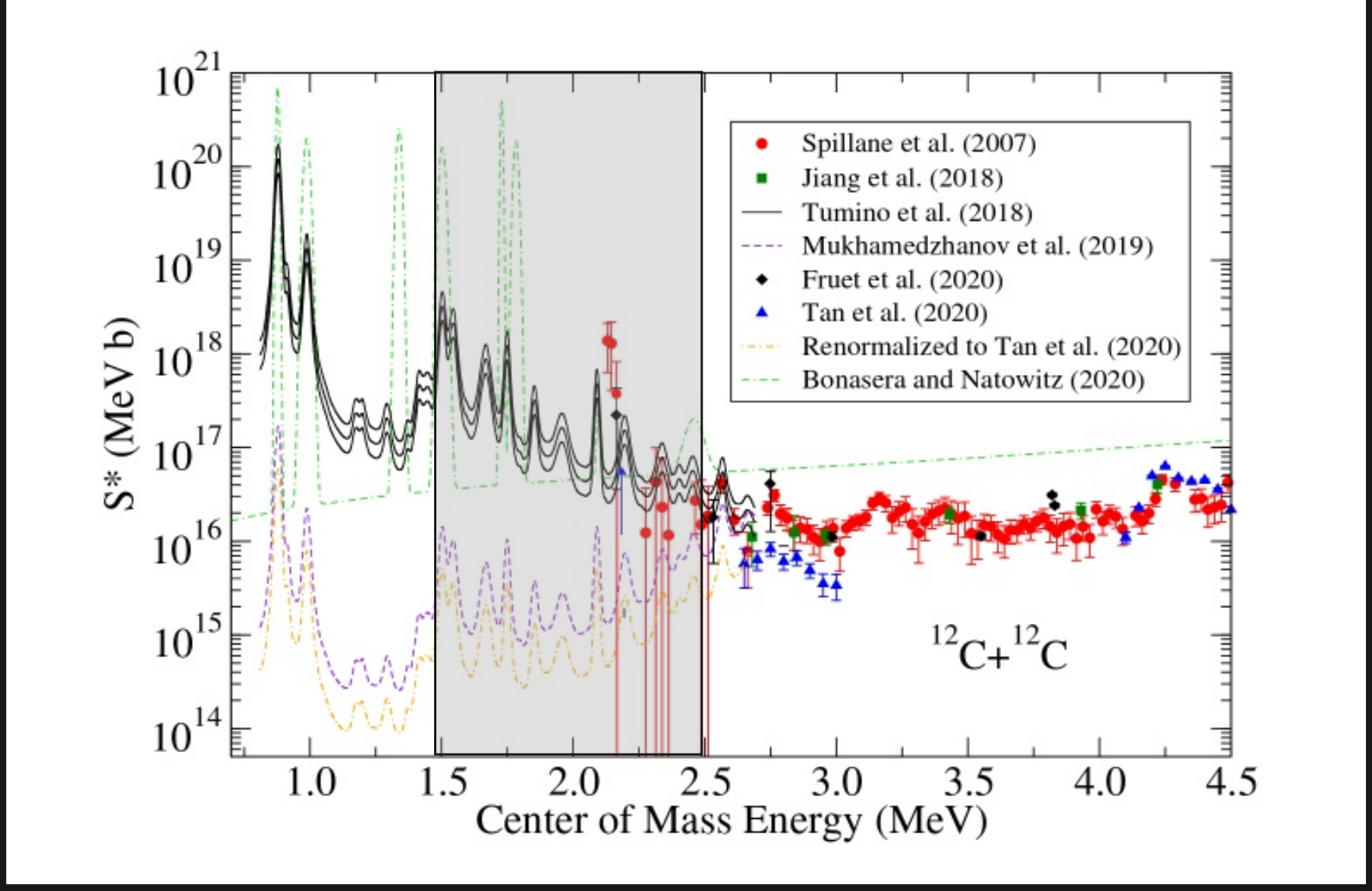
## Astrophysical motivations



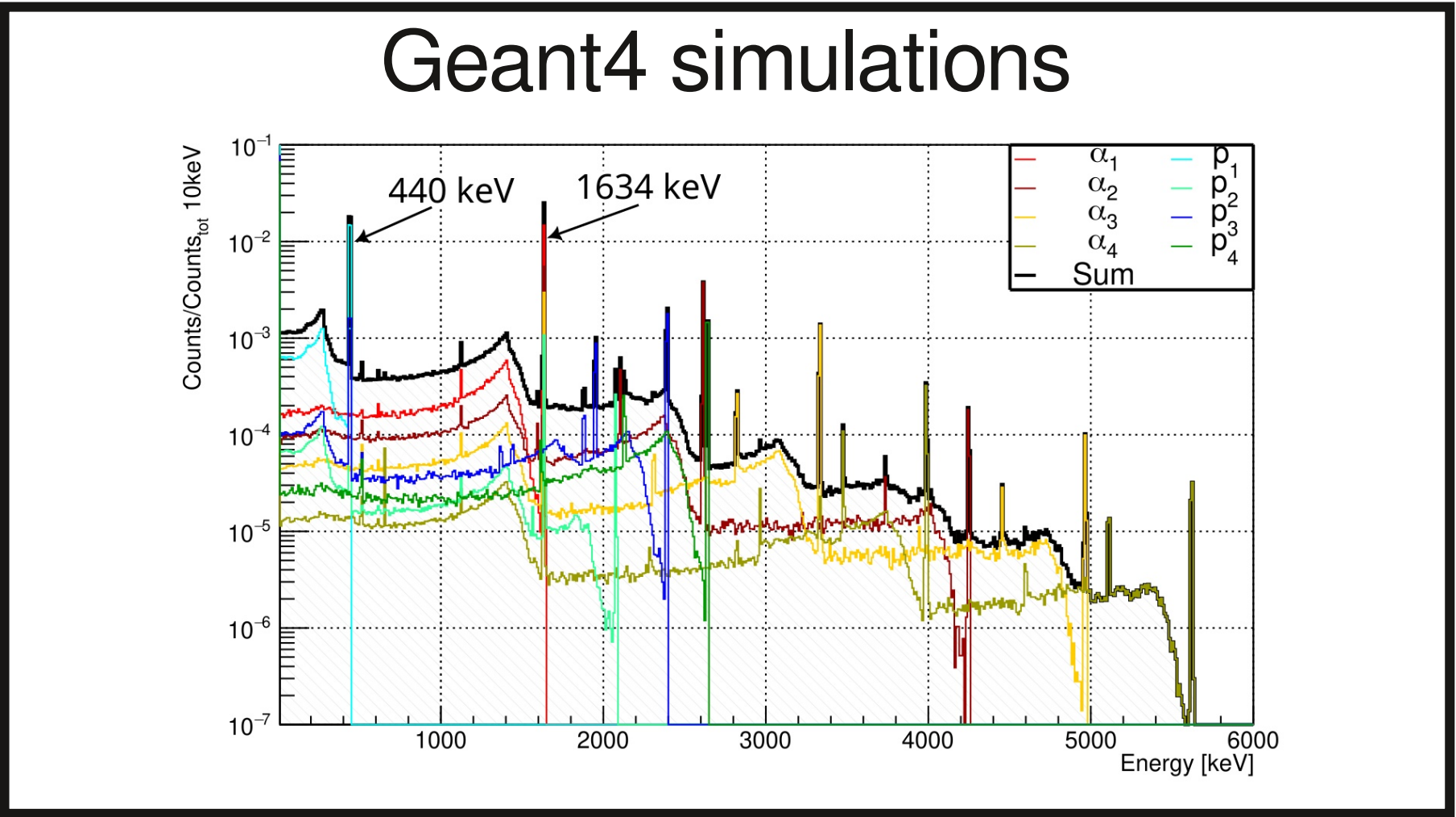
## The $^{12}\text{C}+^{12}\text{C}$ reaction



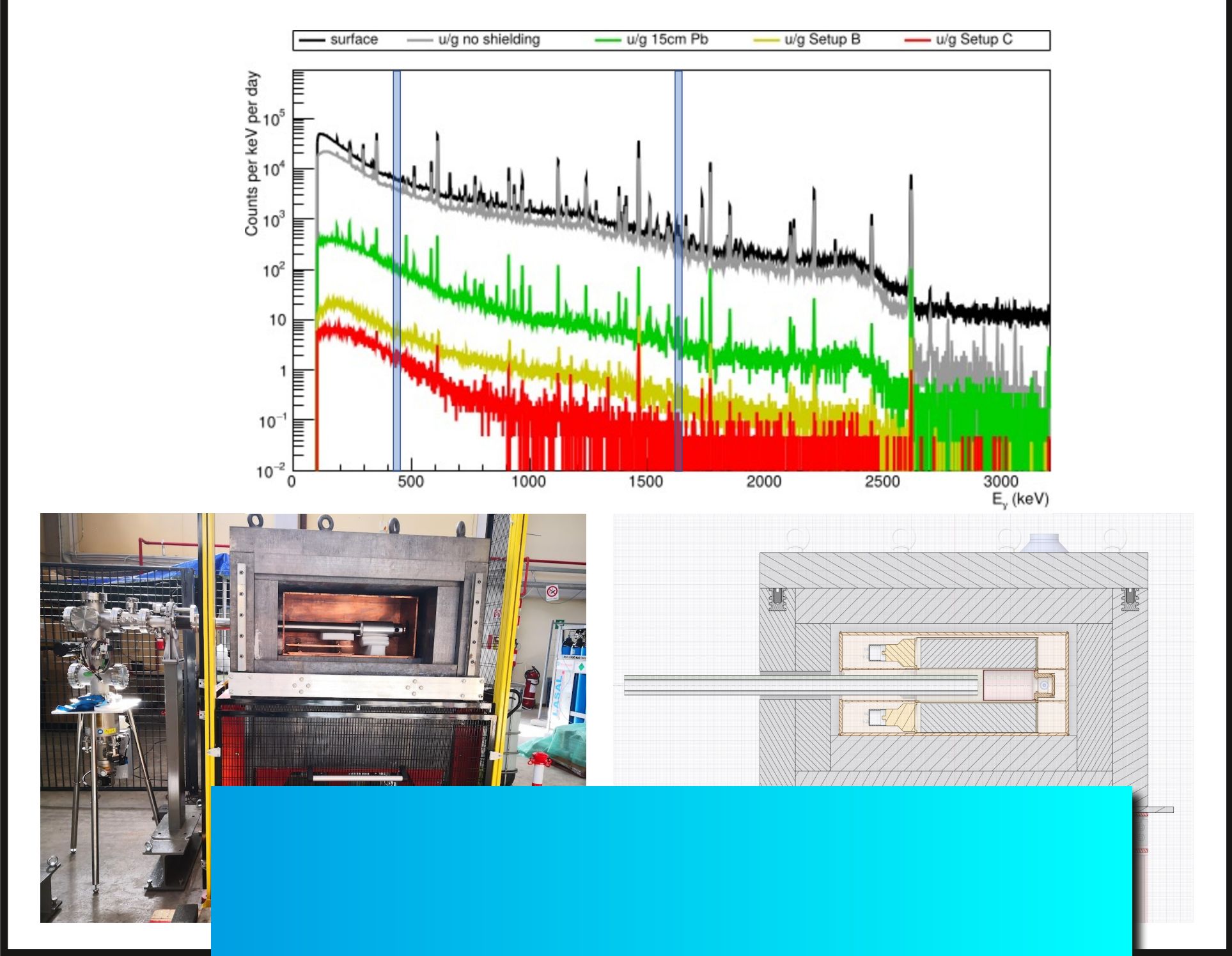
## State of the art



## Geant4 simulations



## Experimental setup



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