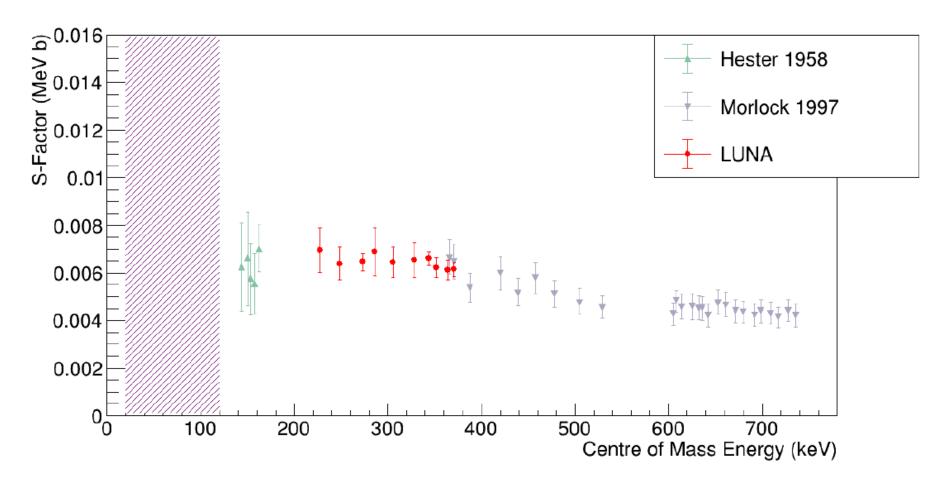# $^{16}O(p,\gamma)^{17}F$

R. Depalo

Prompt-gamma results

Full analysis report available on gsbox: https://gsbox.lngs.infn.it/f/65796824

Fit and extrapolation

Chloë Hebborn (MSU) is willing to perform a theoretical calculation and fit.

She proposed a frequentist analysis (chi-square minimization) in the first instance and extend it to a Bayesian analysis if necessary. She could start on the S-factors already available (prompt gamma) and add the results from activation later on.

She would like to be helped by a post-doc and possibly an UG student (starting in August).

She made a recollection of previous fit in literature (especially Iliadis et al. PRC 2022) and made some preliminary calculations for the radiative capture cross sections, using a single-particle potential to generate the bound state wavefunction.

Jakub and David available for R-matrix