C. Domingo-Pardo, C. Guerrero, J.L. Taín. (everybody is welcome to join)



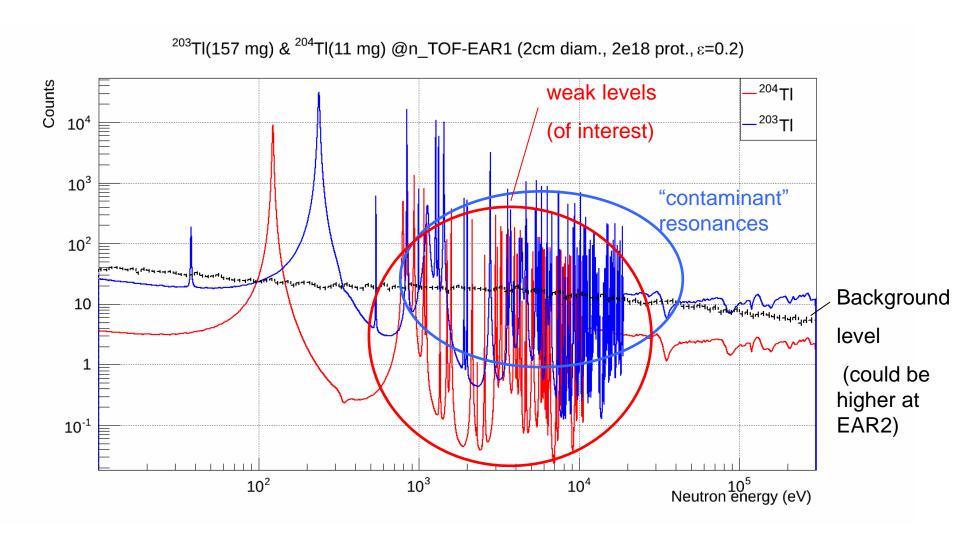






- Motivation : the  ${}^{204}\text{TI}(n,\gamma)$  case
- Origin of background with C<sub>6</sub>D<sub>6</sub> TEDs
- An alternative approach for TEDs with improved peak-to-background ratio
- Preliminary simulations
- Conclusions & Outlook

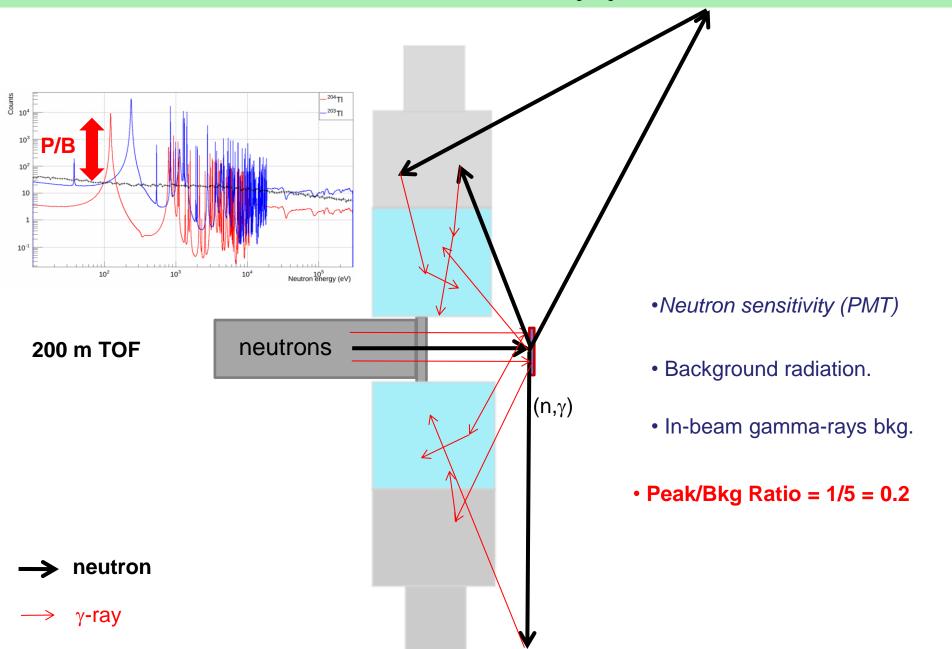
#### Motivation: measurements in large background conditions



• The measurement of small samples, low CSs or weak resonances is challenged by the peak/background ratio, which depends both on the experimental conditions and on the detection system used.

- Motivation : the <sup>204</sup>TI(n,γ) case
- Origin of background with C<sub>6</sub>D<sub>6</sub> TEDs
- An alternative approach for TEDs with improved peak-to-background ratio
- Preliminary simulations
- Conclusions & Outlook

#### Origin of background using conventional C<sub>6</sub>D<sub>6</sub> TEDs



- Motivation : the <sup>204</sup>TI(n,γ) case
- Origin of background with C<sub>6</sub>D<sub>6</sub> TEDs
- An alternative approach for TEDs with improved peak-to-background ratio
- Preliminary simulations
- Conclusions & Outlook