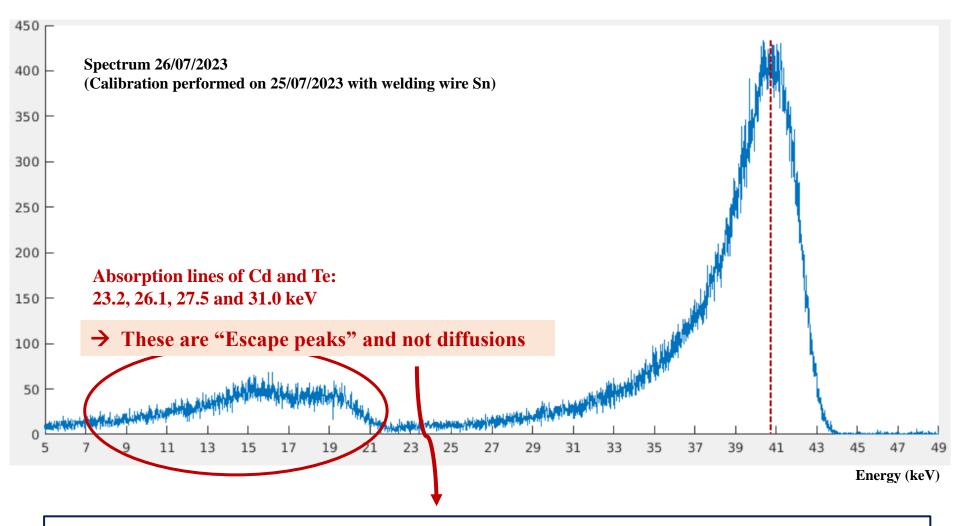
## **Réunion ThomX**

2 octobre 2023

Ligne X

## Come back to the first X-ray spectrum with the CdTe spectro



To be confirmed with another spectrum acquired with our 3 systems of slits sufficiently closed to allow only the beam to pass, BUT, already, if they were diffusions in this spectrum, they should also be visible between 20 and 30 keV

 $\rightarrow$  I think there is not or very little of diffusions in this spectrum  $\rightarrow$  possible to exploit it

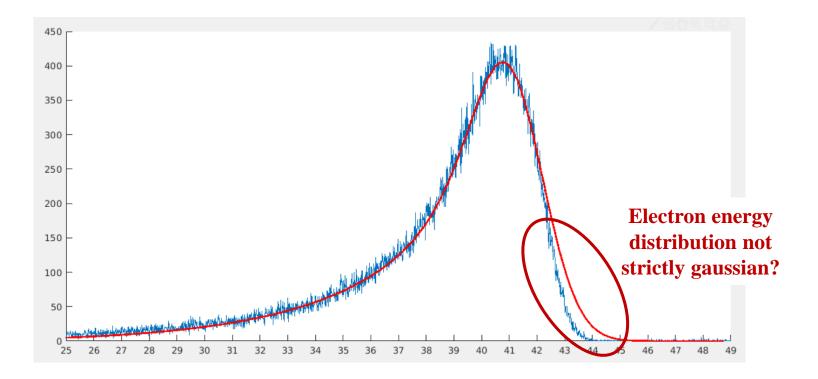
## Fit of the spectrum

## Hypotheses

\* GAUSSIAN distributions for e- energy, laser energy (rms totally negligible), e- divergence, laser divergence

\* LASER transv. size = 60  $\mu$ m (  $\rightarrow$  div laser = 1.4 mrad )

\* The detector was ON-AXIS ( CdTe 5x5 mm at 10.5 m from the IP)



Fit of the spectrum

Hypotheses

\* GAUSSIAN distributions for e- energy, laser energy (rms totally negligible), e- divergence, laser divergence

\* LASER transv. size = 60  $\mu$ m (  $\rightarrow$  div laser = 1.4 mrad )

\* The detector was ON-AXIS ( CdTe 5x5 mm at 10.5 m from the IP)

