# News

### LIME under test: stability

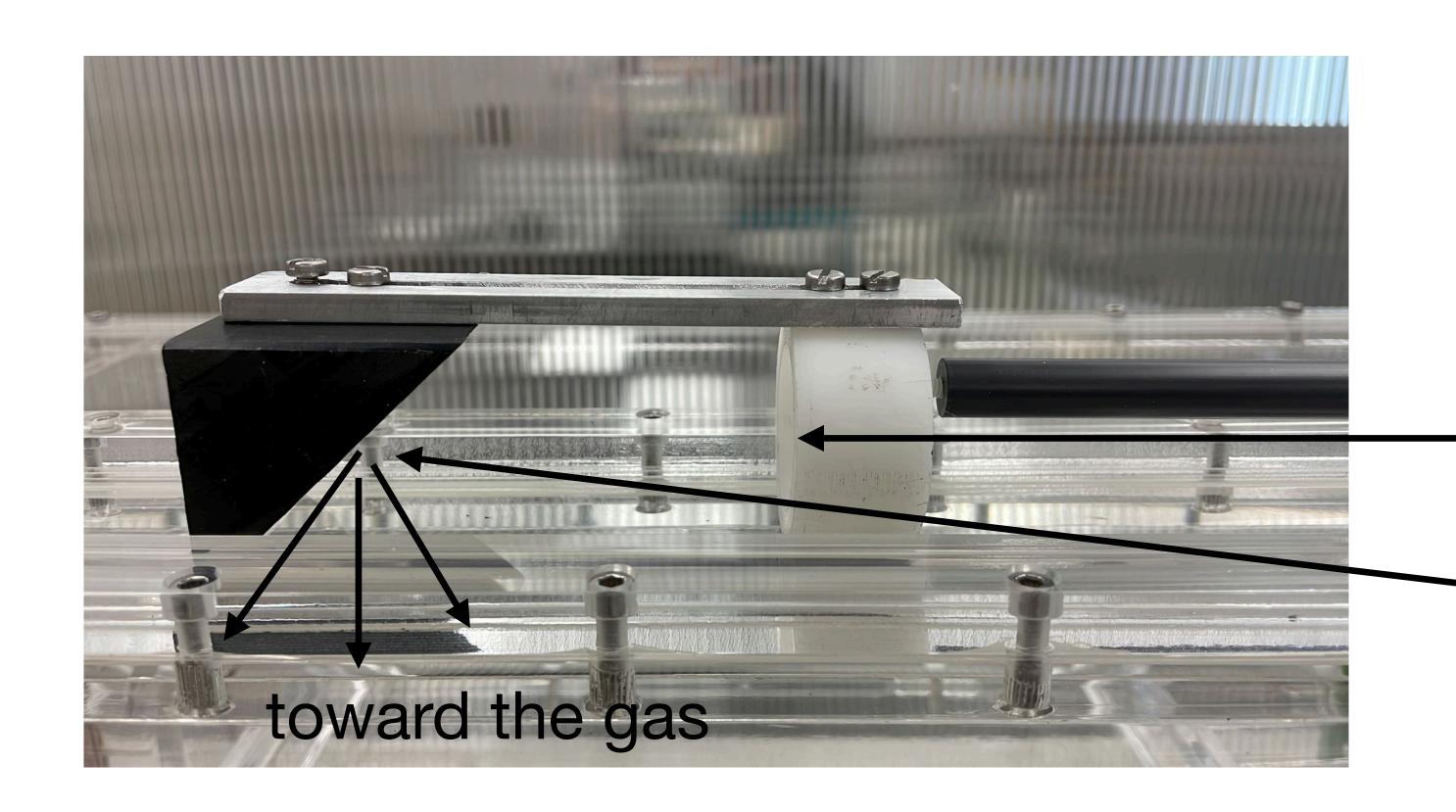
In the last two weeks, LIME was kept continuously under test;

An automatic procedure takes pedestal and 55Fe runs, both with long and short exposure;

Giovanni and Rita are looking at the data and start the analysis of pedestals;

#### LIME under test: low energy x rays

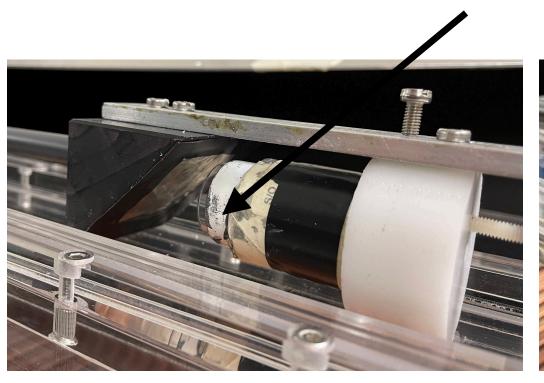
Following the indications from Cristina, we are trying to produce some low energy (i.e. < 6 keV) X ray to test LIME;

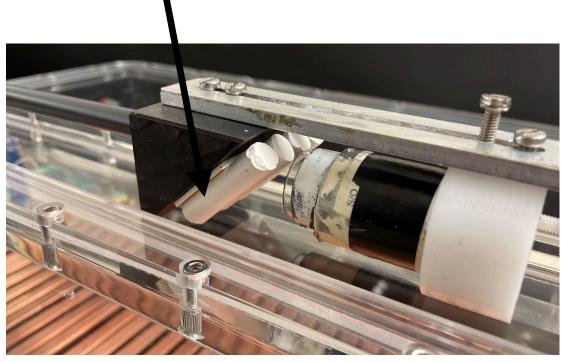


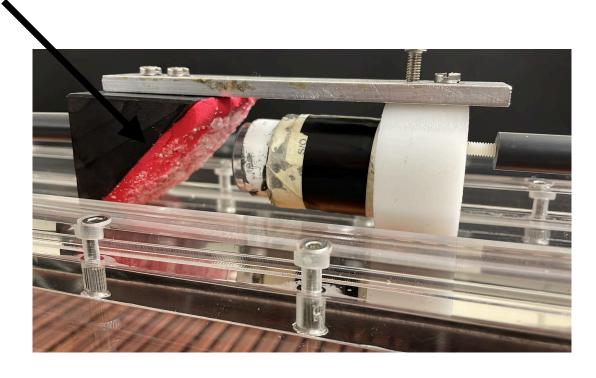
Roberto prepared a trolley able house the 740 MBq <sup>55</sup>Fe source to irradiate a target

#### LIME under test: low energy x rays

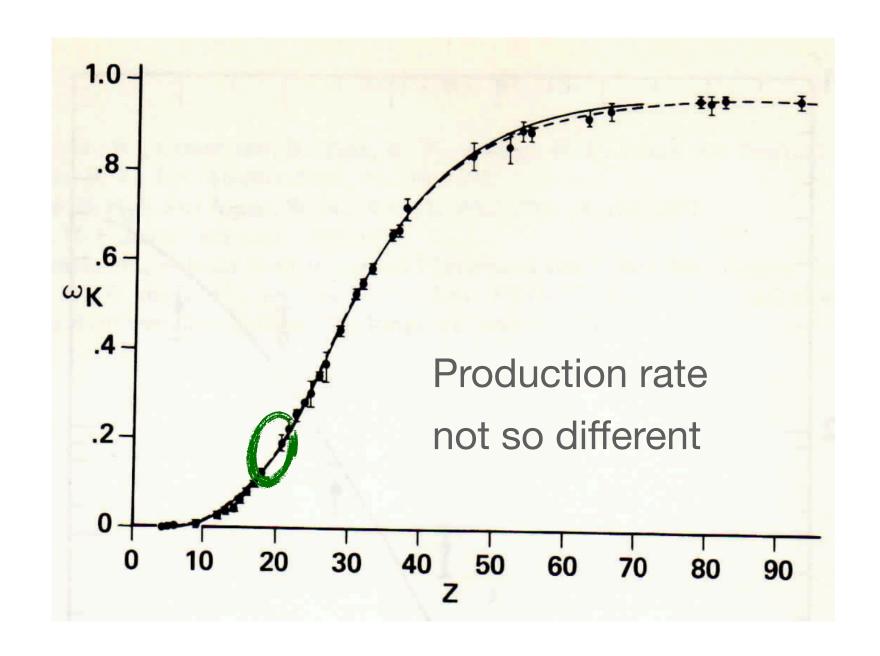
We tried Titanium, gypsum (Ca), salt (CI)

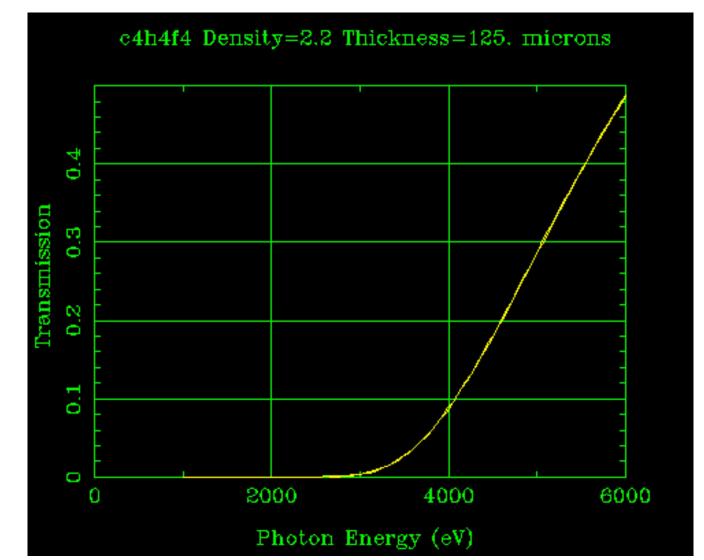


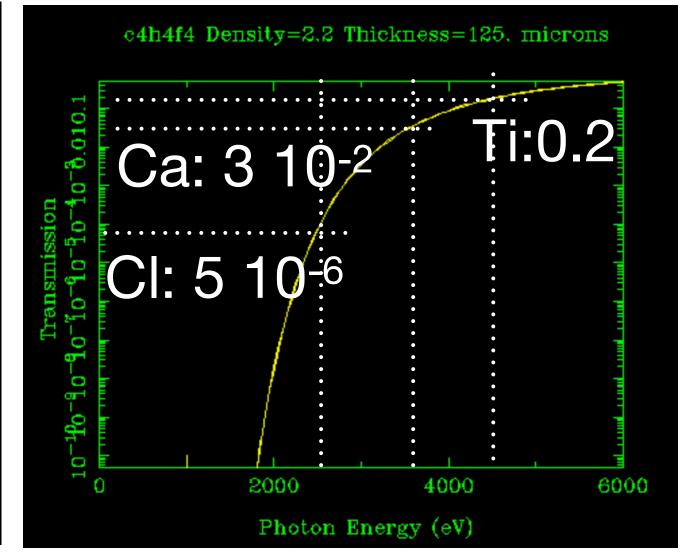




Elemento	Energia do raio X (keV)	
Si $K_{\alpha,\beta}$	1,74	
s K <sub>α,β</sub>	2,31	
Cl $K_{\alpha,\beta}$	2,62	z=17
ккα	3,31	
Ca Kα	3,69	z=20
Ti Kα	4,51	z=22



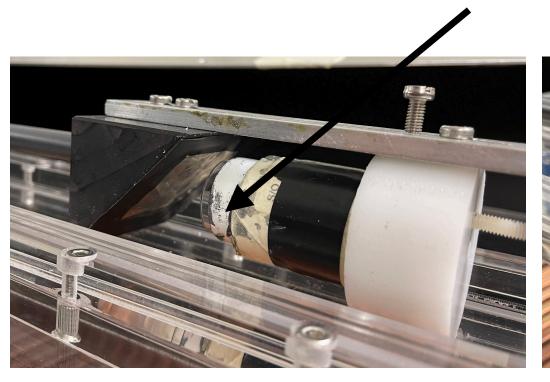


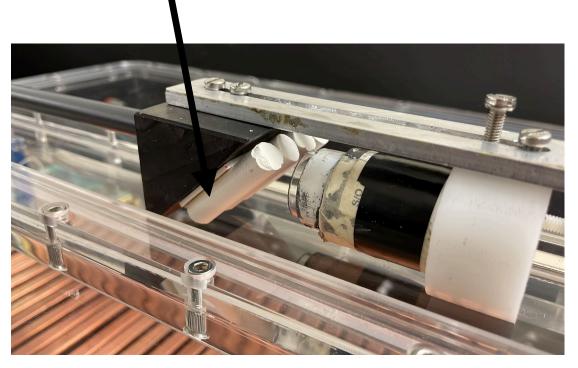


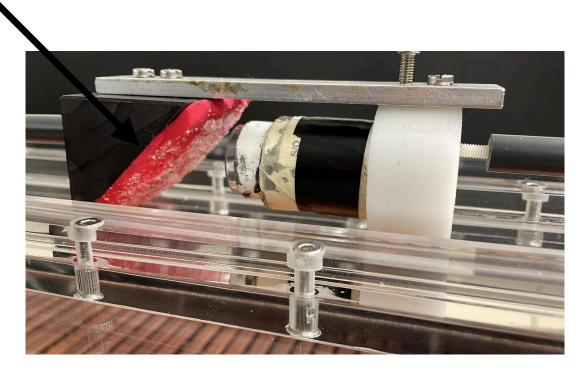
Very different probability of entering the 125

## LIME under test: low energy x rays

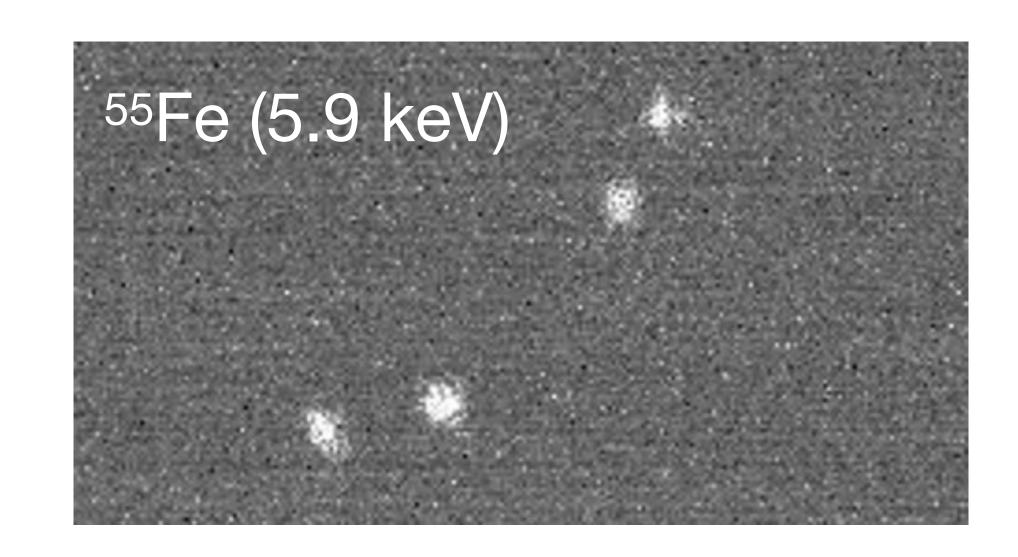
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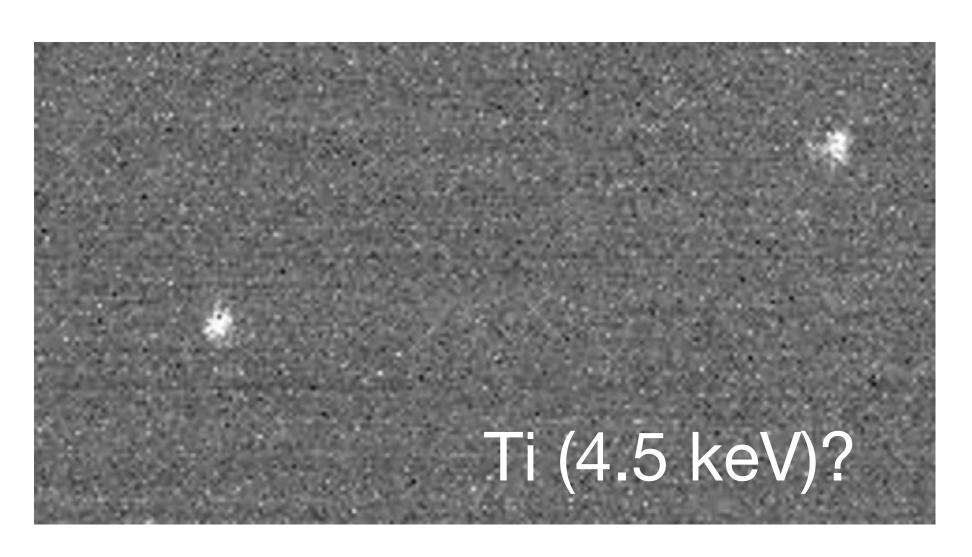




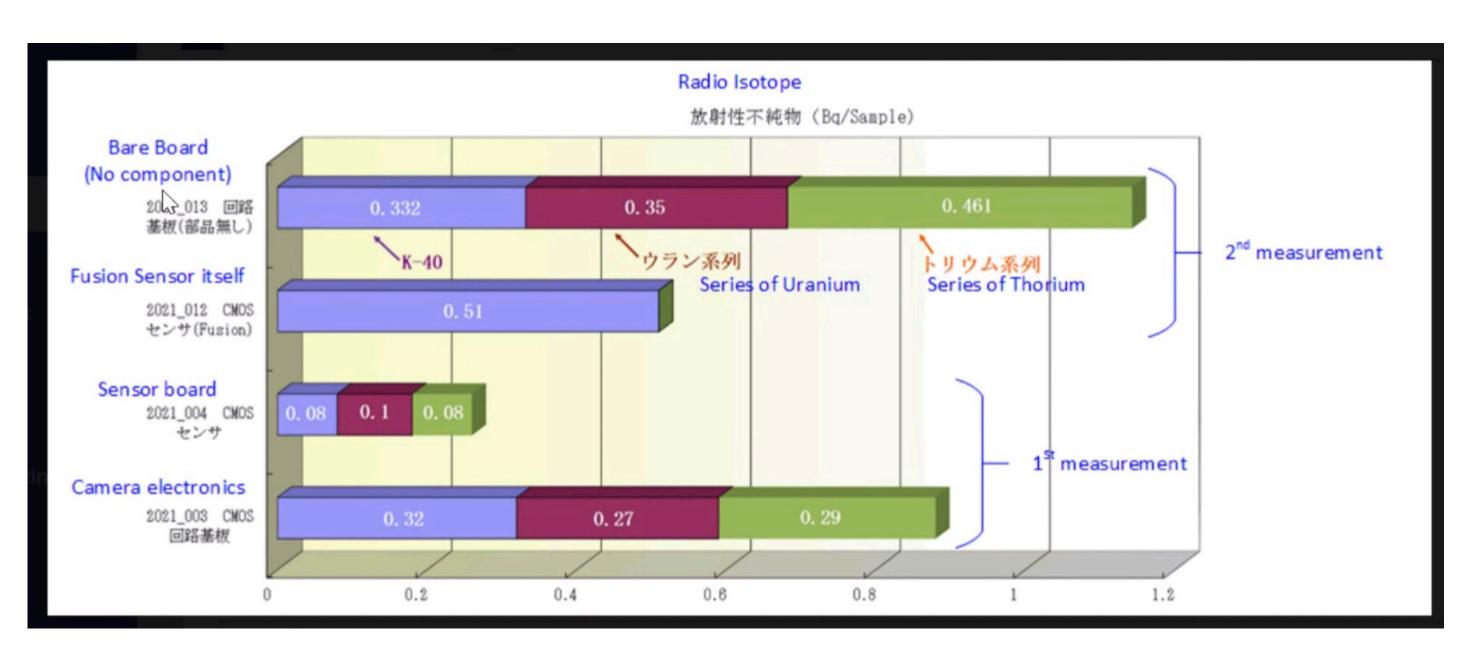


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#### Low rad CMOS



We had a first meeting this morning with R&D Hamamatsu office;

They confirm presence of K in their sensors.

They are interested in finding a way to reduce radioactivity in their sensor; Next week we are going to test a not-cooled solution, while they will check the activity in glasses and support (packaging) of the sensor