

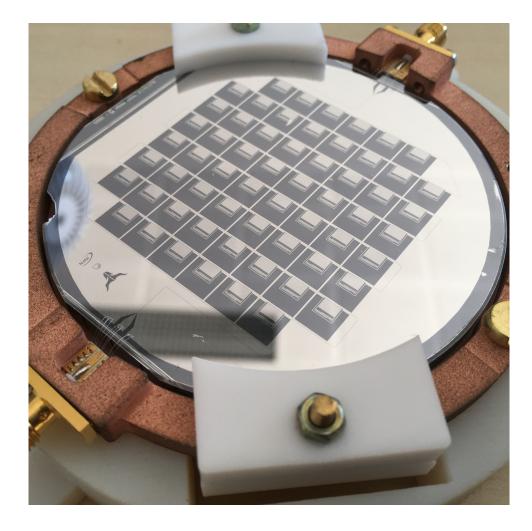


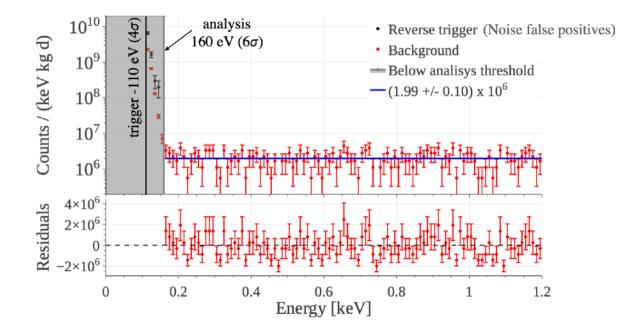
Conclusions (so far)

Marco Vignati, LNGS, 20 March 2024

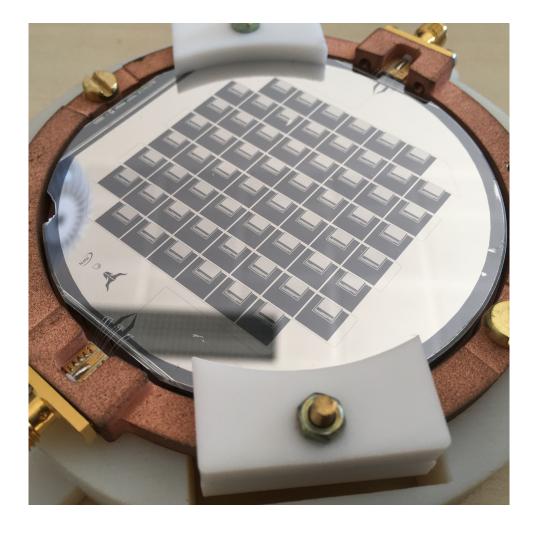


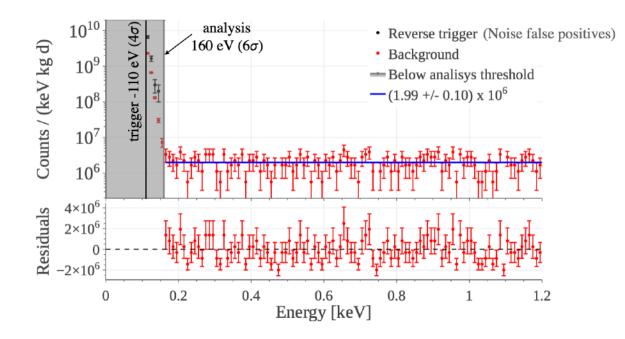
BULLKID works



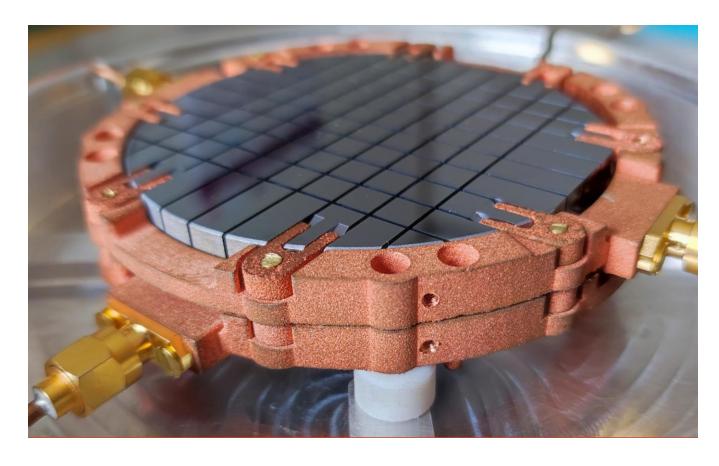


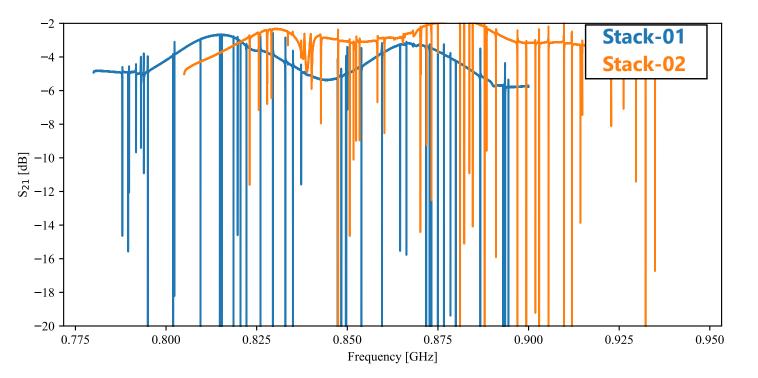
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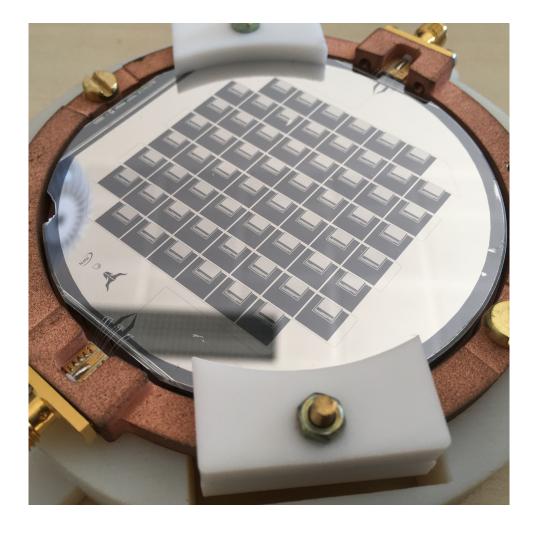


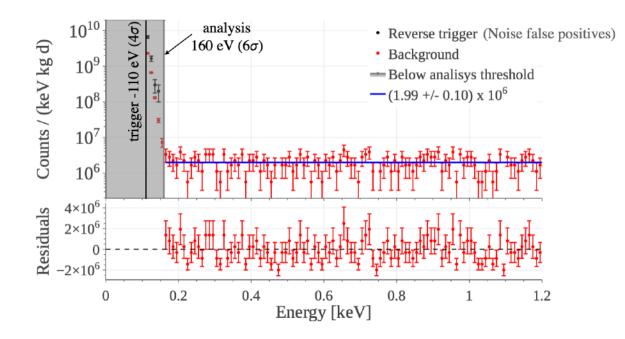
Stacking works



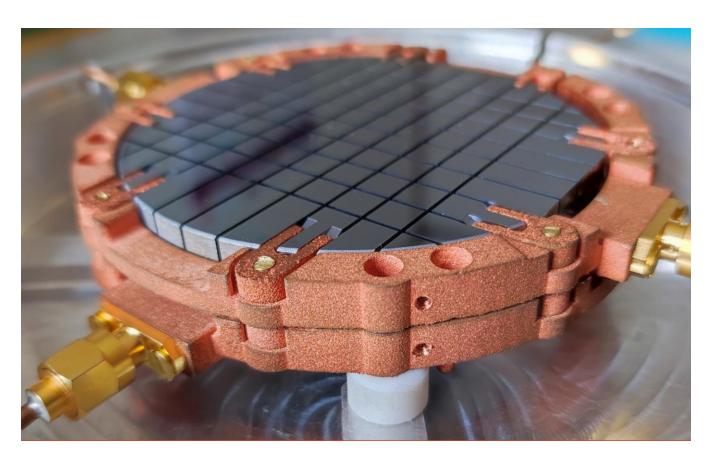


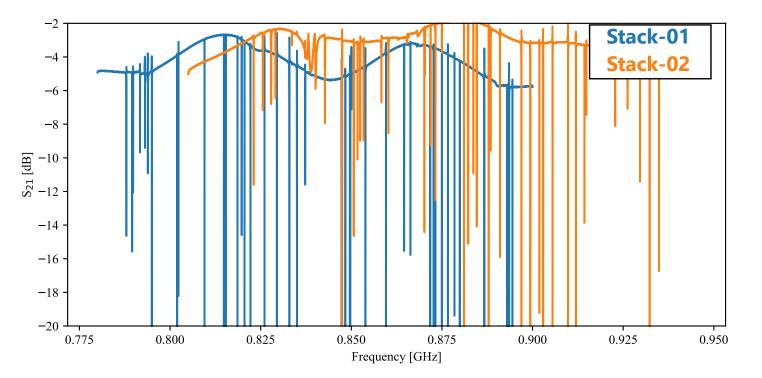
BULLKID works



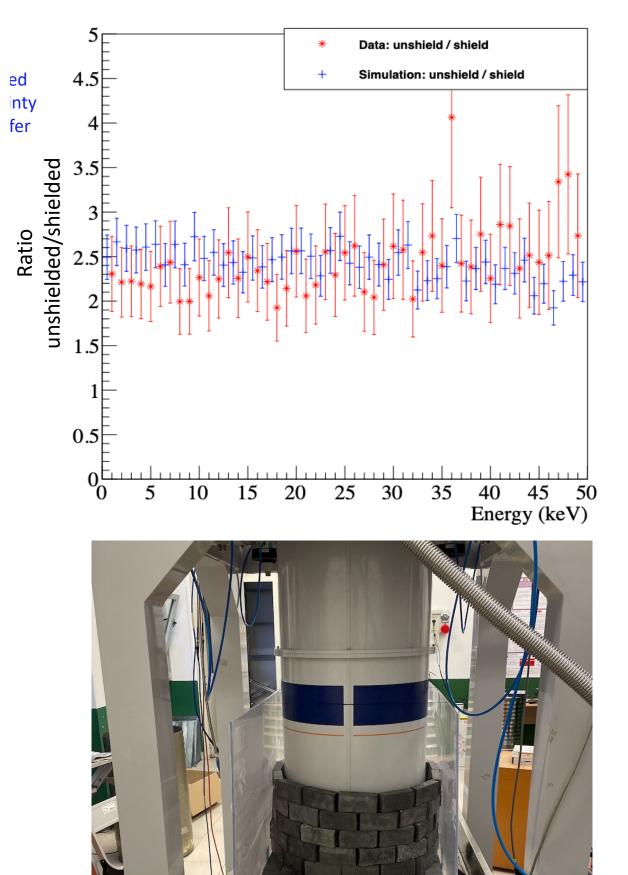


Stacking works





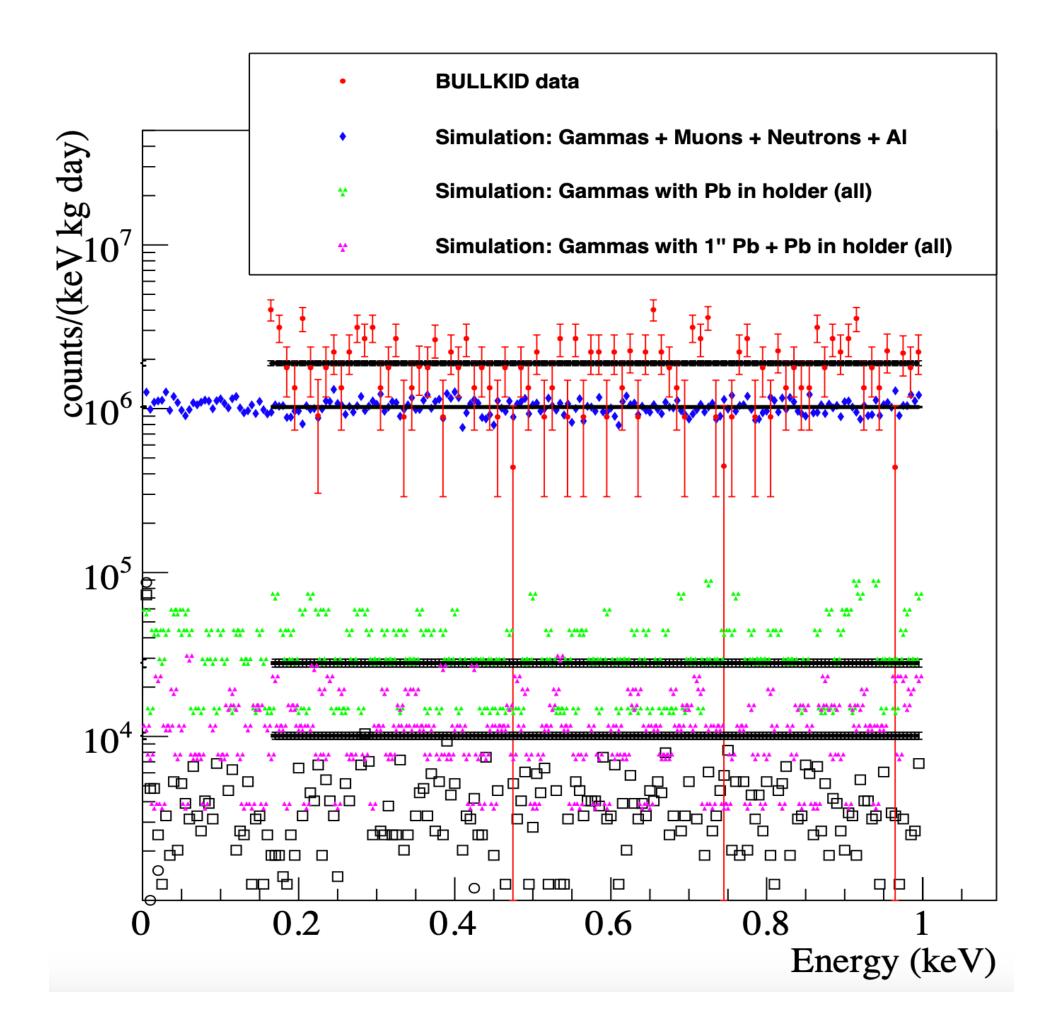
Agreement with simulations



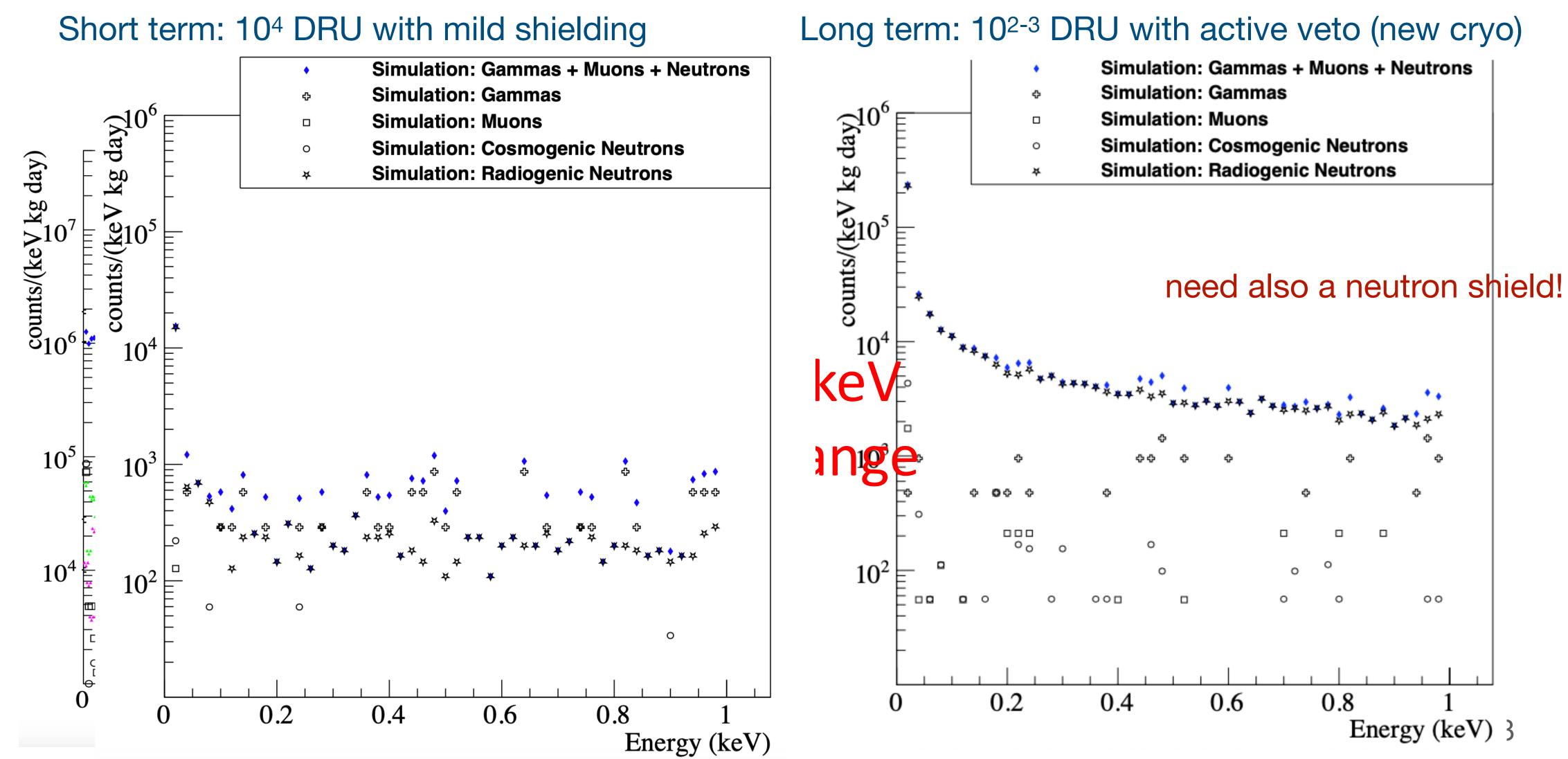
Backgrounds, bkgs, bkgs at Sapienza

Backgrounds, bkgs, bkgs at Sapienza

Short term: 10⁴ DRU with mild shielding



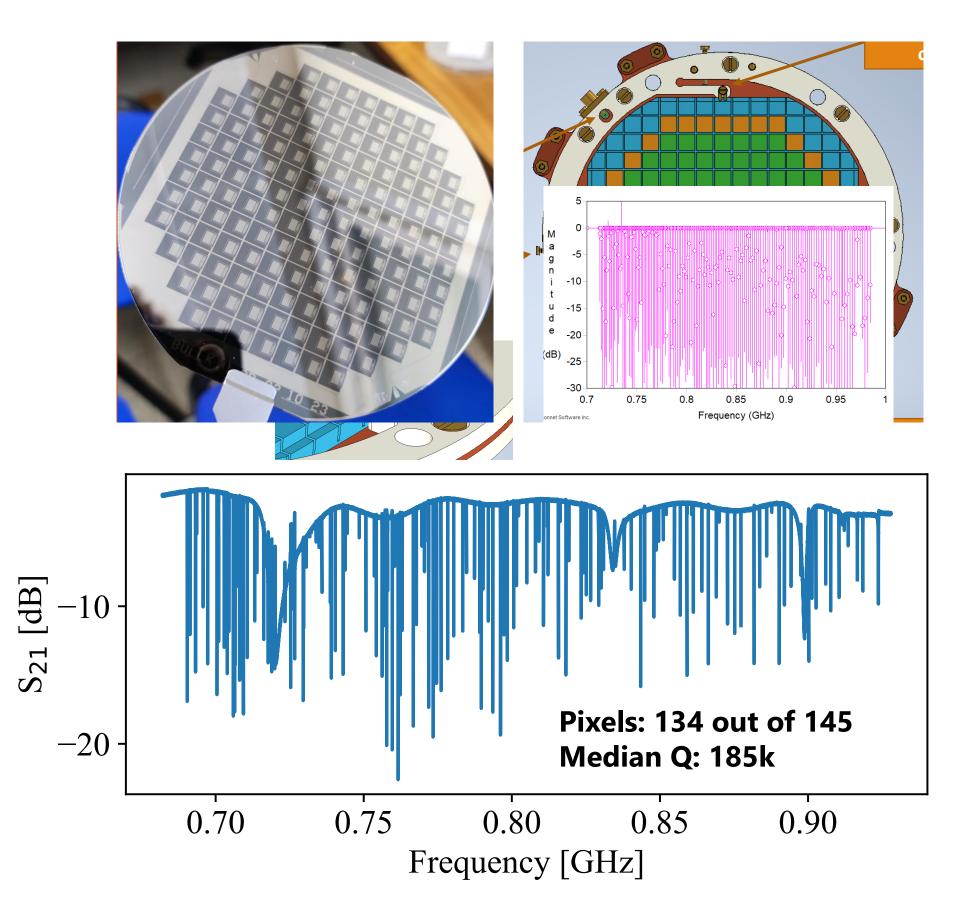
Backgrounds, bkgs, bkgs at Sapienza



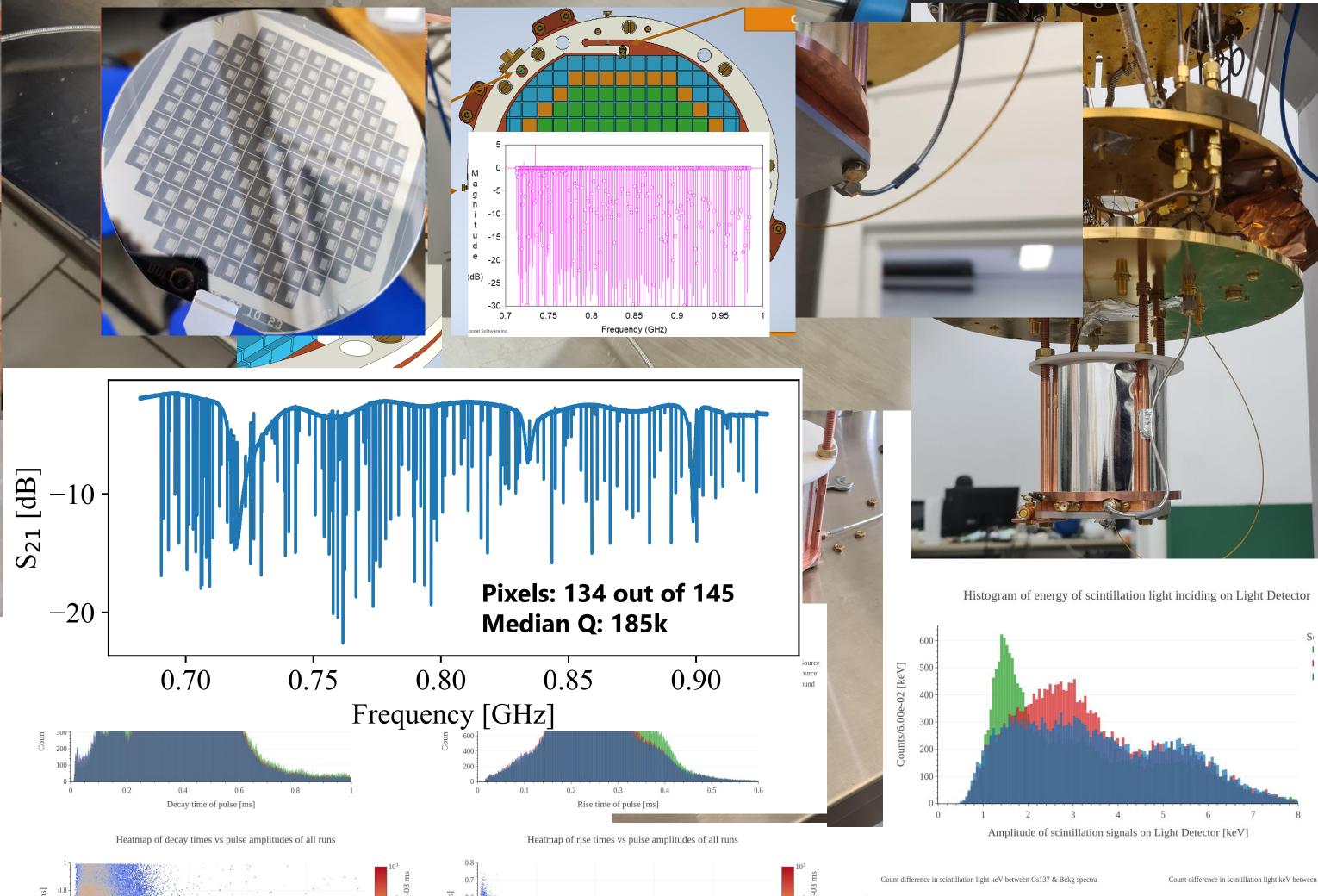
Towards the final experiment

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10 cm wafers on track



ds the final experiment

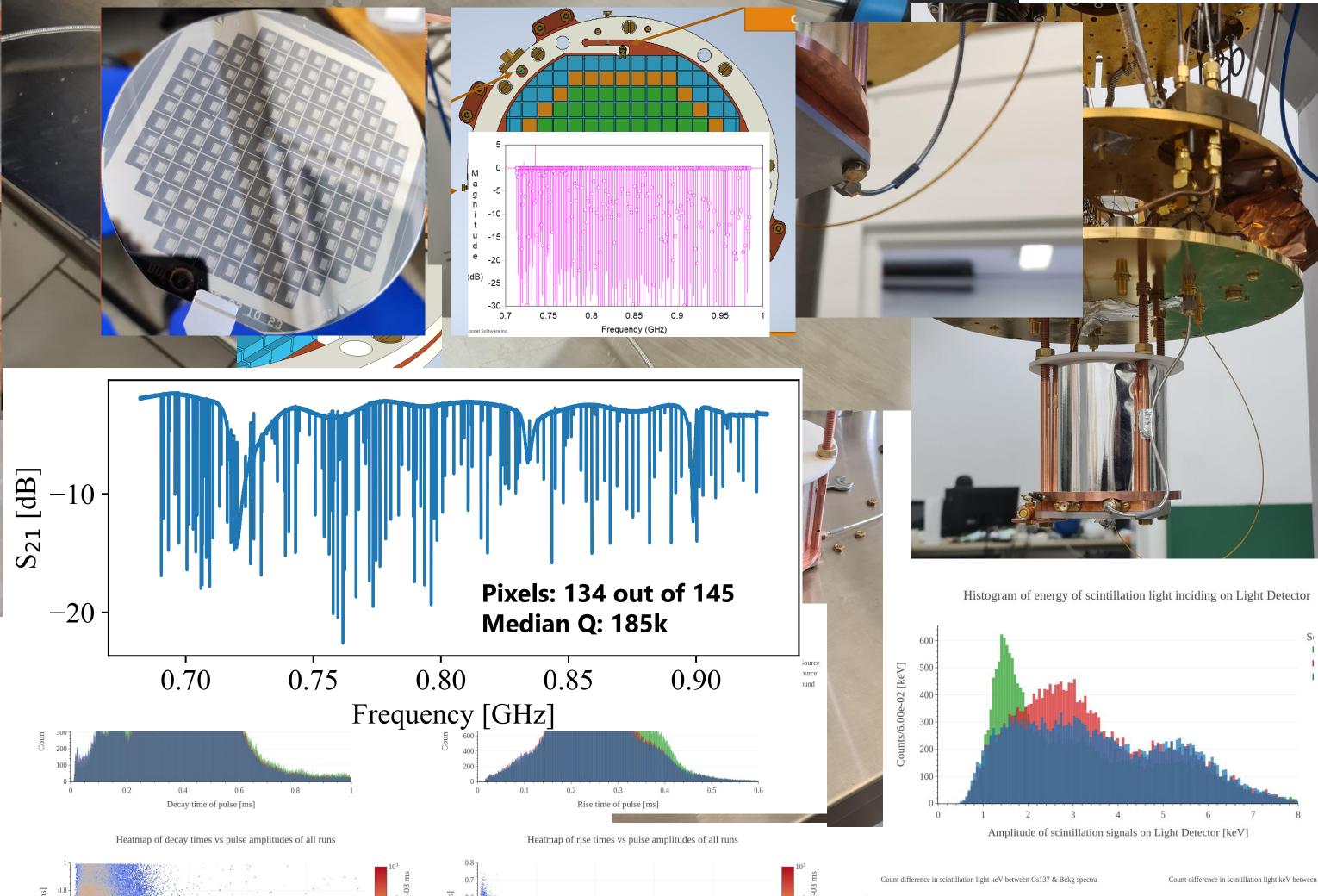


ers on track

WECP-20

Veto 8x less threshold need R&D

ds the final experiment

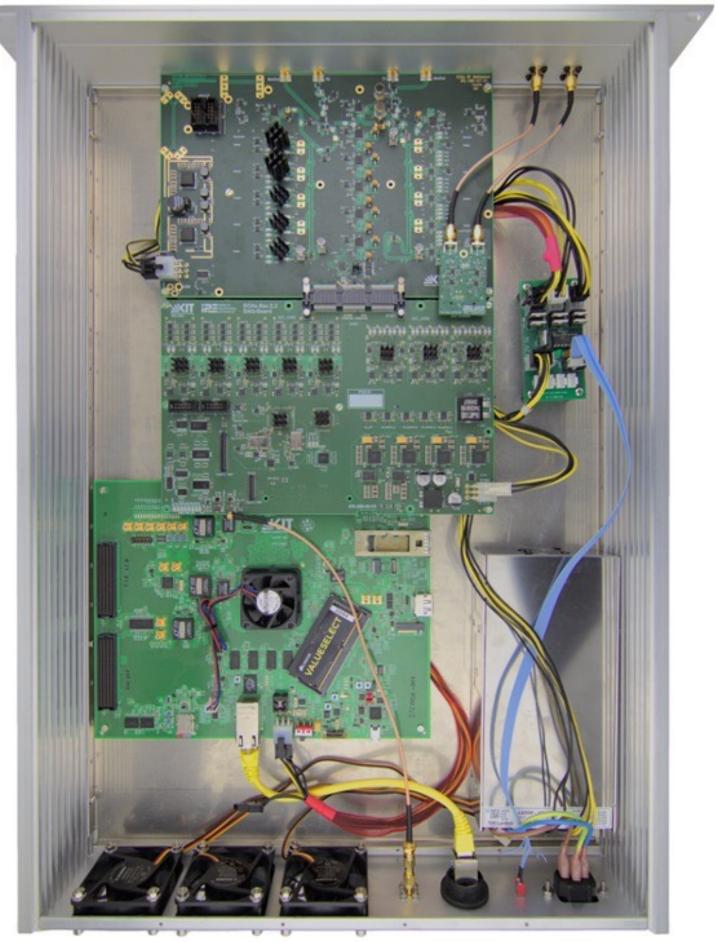


ers on track

WECP-20

Veto 8x less threshold need R&D

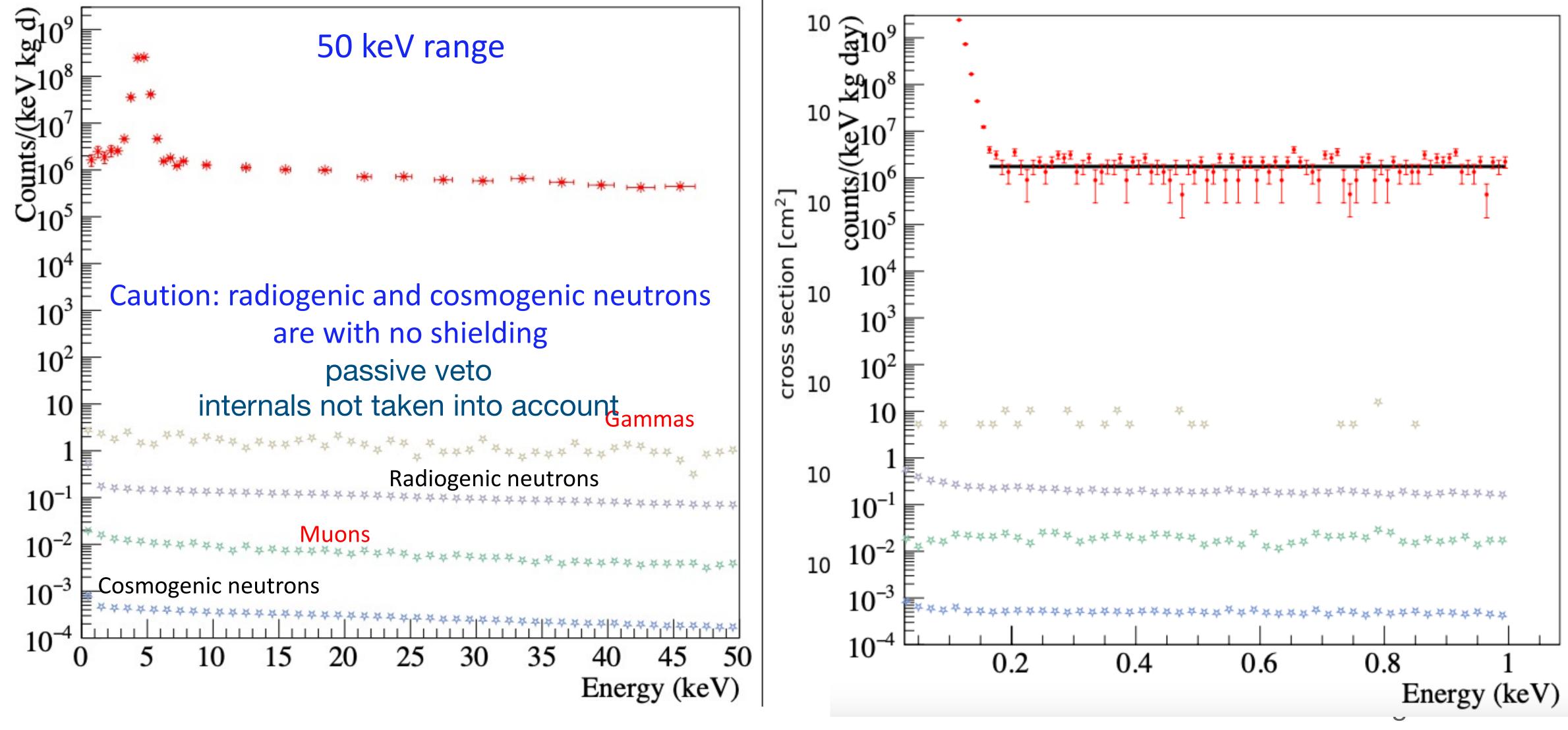
New electronics Tests will start tomorrow!



BULLKID / Vignati - 4

Count difference in scintillation light keV between Co60 & Bckg spectra

Backgrounds and sensitivity at Gran Sasso



Target: 1-10⁻² DRU depending on threshold

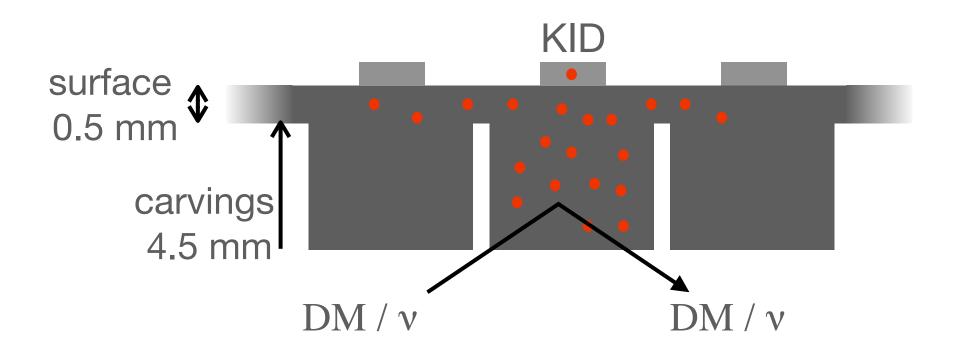




R&D on BULL-KID? Baseline is secured but the lower the threshold the better

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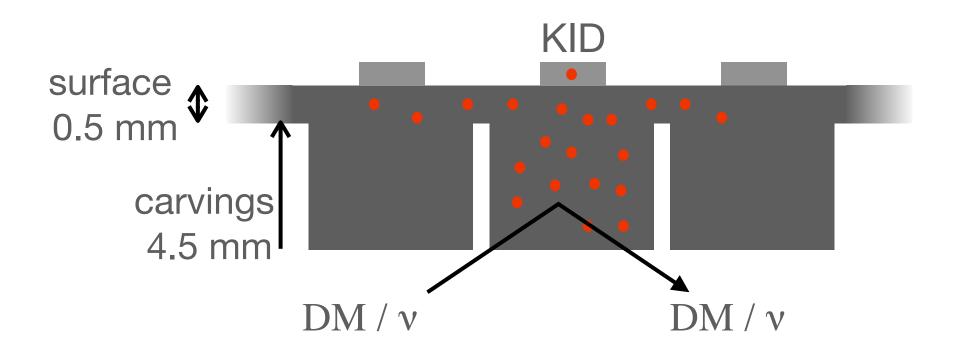
Deeper carvings: front blades? 0.25 mm with etching?





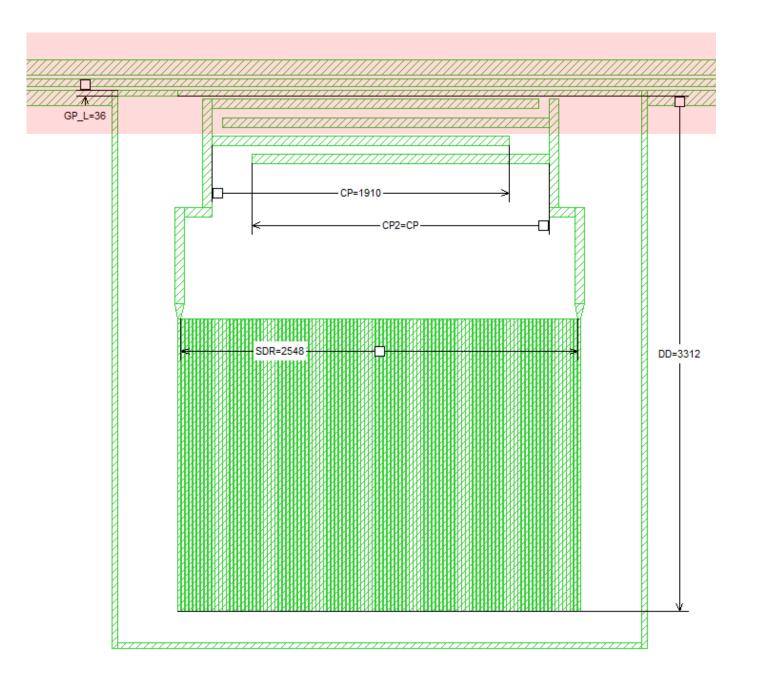
R&D on BULL-KID? Baseline is secured but the lower the threshold the better

Deeper carvings: front blades? 0.25 mm with etching?





New KID designs? Moving to AlTiAl?



BULLKID / Vignati - 6

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.and more to come!

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Colaboratiogen Work packagen

- Questions:
 - Which objectives for the demonstrator?

NGS Cryc

Cryo vetu

KID R&D

- Which background for the experiment?
- Schedule/strategy is becoming important:
 - By-monthly online update from all WGs
 8 May 3-5 PM
 - Write the CDR -> Due in June
 - Meeting in September (week 38 in Pisa/ Elba?)
 - LNGS Scientific committee in October

