PHOTON ARRAY FOR STUDIES WITH RADIOACTIVE ON AND STABLE BEAMS

Status and next steps in simulations

IFJ PAN Kraków

IPN Lyon (France)

IPHC Strasbourg (France)

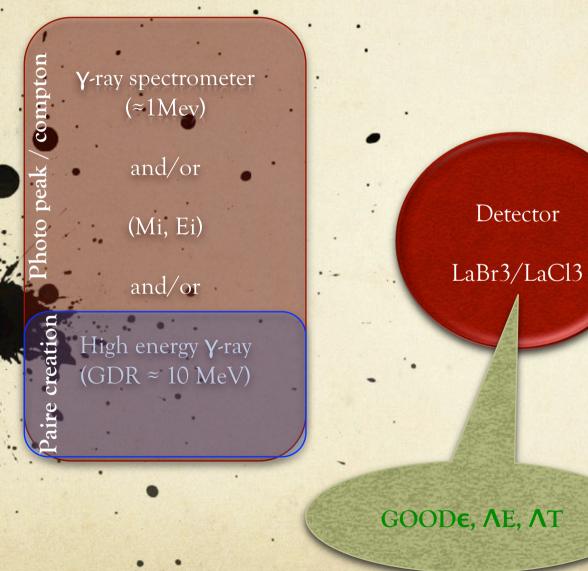
BARC and TIFR Mumbai (India):

University of York (UK)

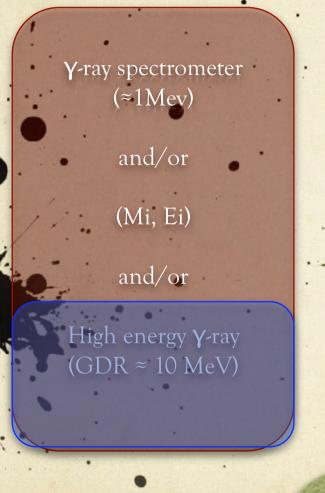


What we would like

Detector



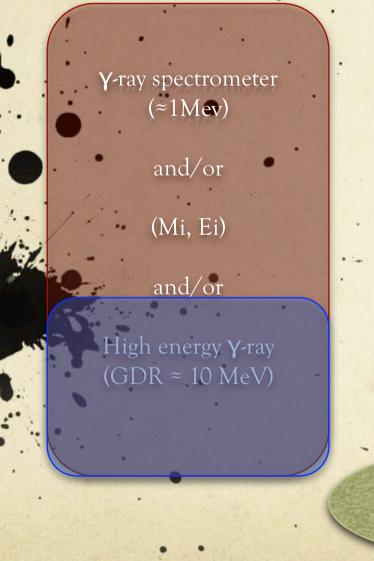
What we would like



<u>Efficiency</u> Depth ? Compact ? One or two layers ?

GOOD ϵ , ΛE , ΛT

What we would like



E resolution

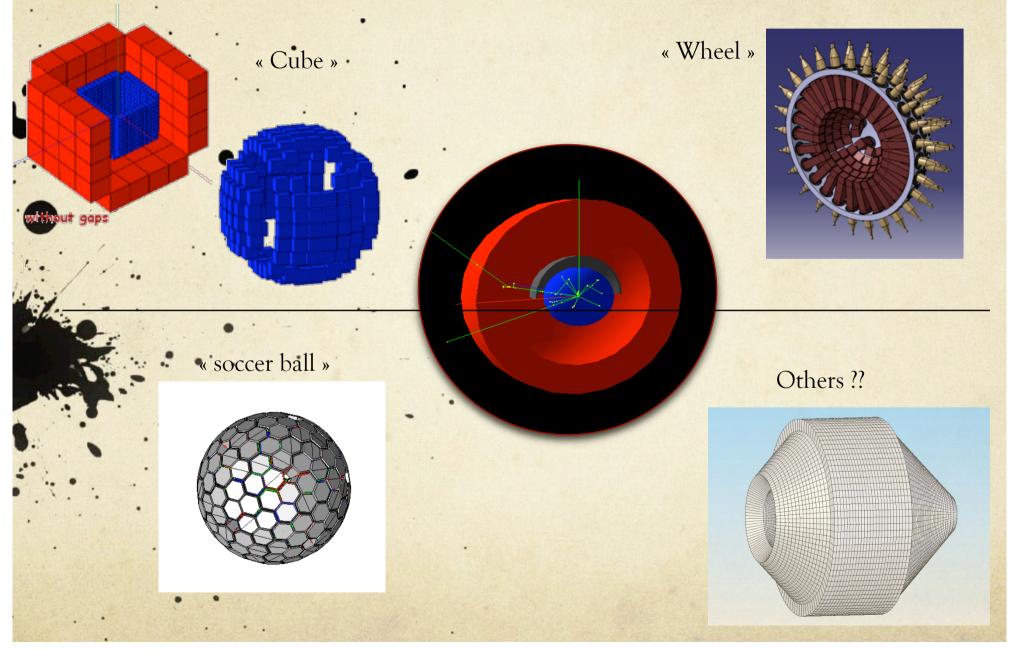
segmentation (pileup, Doppler)

Reconstruction

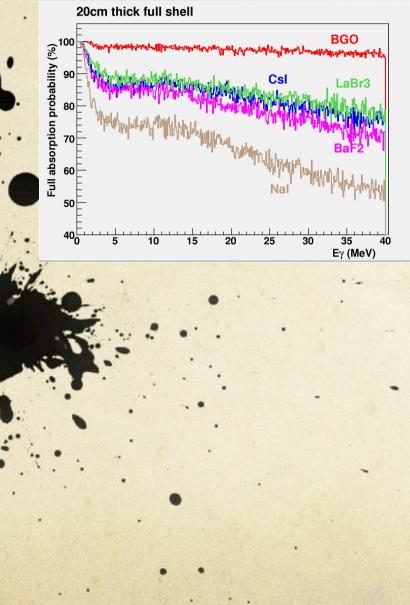
« addback » or clusterisatrion

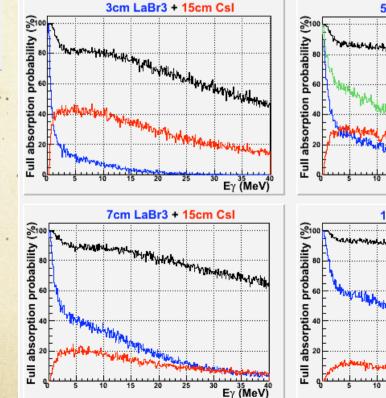
GOOD**ε**, **Λ**Ε, **Λ**Τ

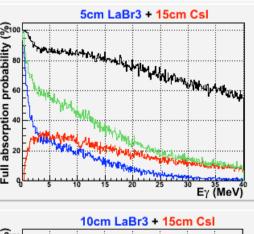
Different configurations

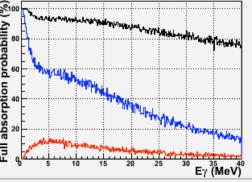


What has been done so far: $\boldsymbol{\varepsilon}$ (M $\boldsymbol{\gamma}$ = 1)(mainly but not only)





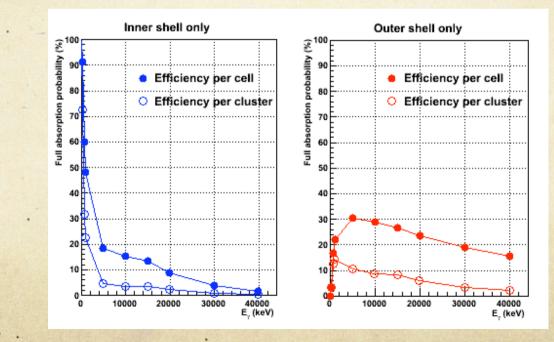




Conclusions on efficiency

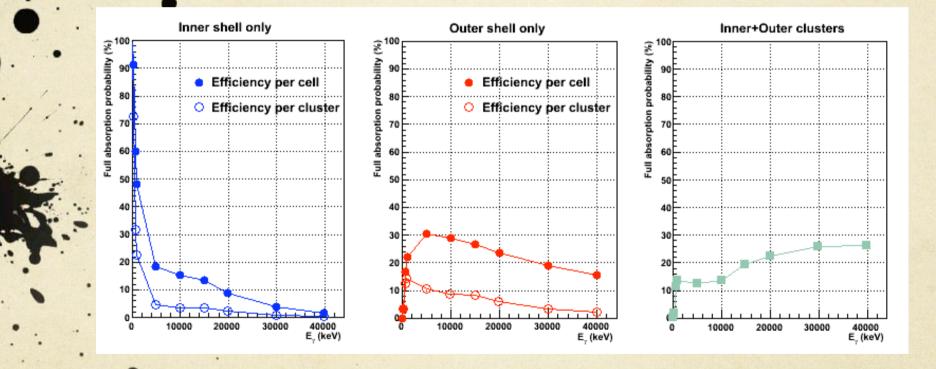
Different configurations have been compared : synthetize $\varepsilon(e\gamma, M\gamma = 1)$ (Ref: the ideal case) $\varepsilon(e\gamma, M\gamma = 1)$ with volume normalization

Full addback versus singles

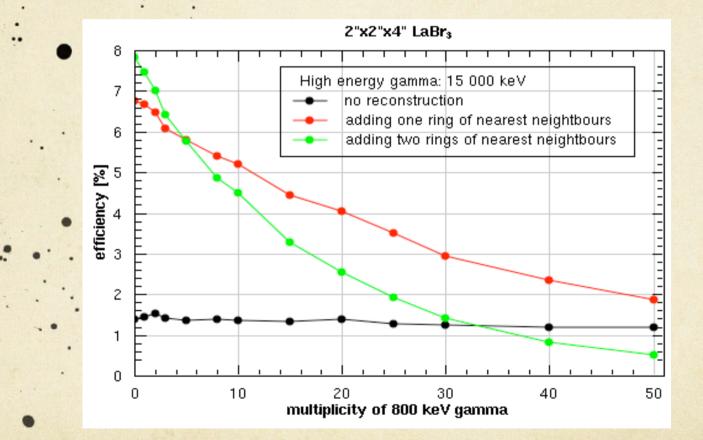


Reconstruction : first studies (GDR versus filter)

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Conclusions / discussions

Work to be continued for high multiplicity Answers in one year ?