

R3B/EXL COMMON SIMULATION and DATA ANALYSIS WORKING GROUP

Why ?

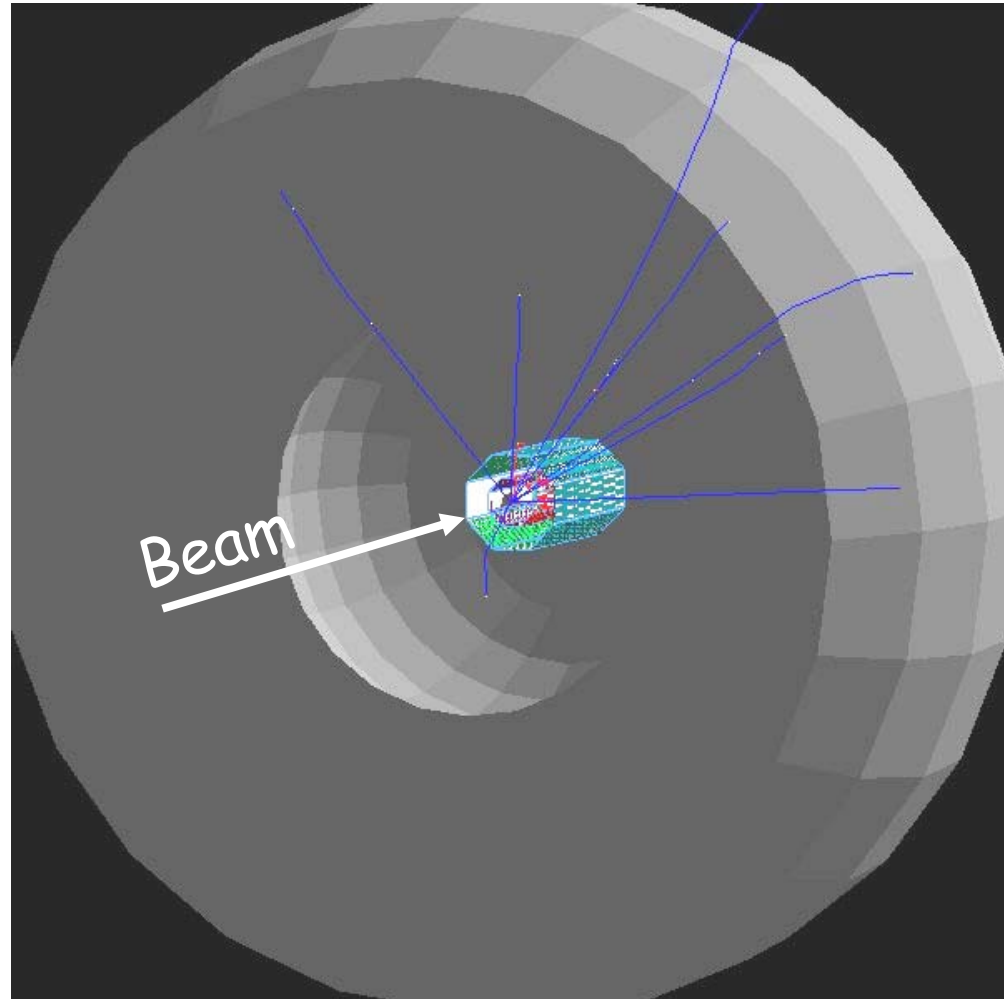
- ▶ Follow the NUSTAR PAC recommendations
 - ▶ Avoid work duplication
 - ▶ Enhance exchange/communication between the two collaborations
- 1st Meeting on the 04/05/05 @ GSI
- well received by the NUSTAR Board (05/05/05 @ GSI)

Main Common Activities

- **Choose a Simulation Framework :**

- Native GEANT4 combined with ROOT (used already by most of the collaborators and also by the AGATA collaboration)

<http://www.usc.es/genp/r3b/>



- **Other possible frameworks :**
 - **The Virtual Monte Carlo approach** (based on ROOT interfacing the MC and used by the CBM collaboration at GSI)
 - **The FADS/GOOFY framework** (used by the ATLAS collaboration is based on GEANT4 and has an interface to ROOT and even HBOOK)
 - ... others ?

GEANT4 + ROOT already used by Hispec/Despec :

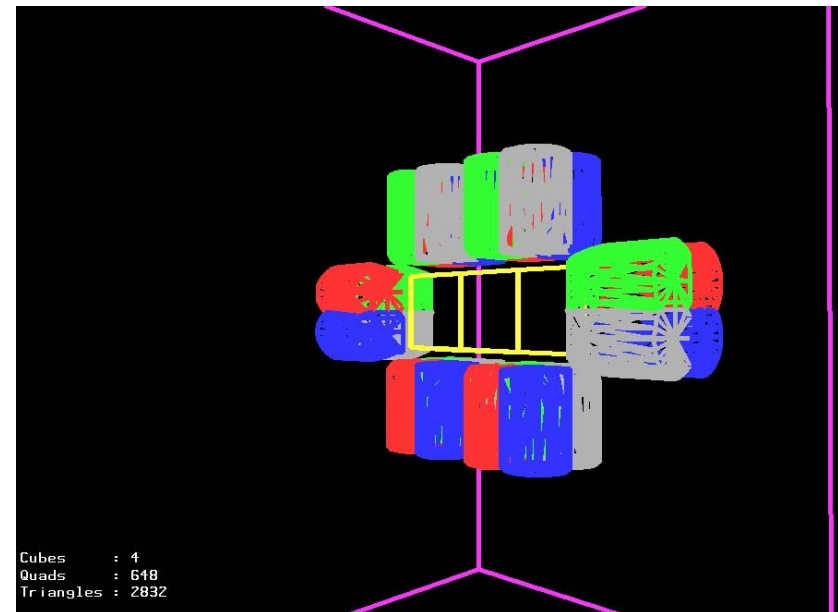
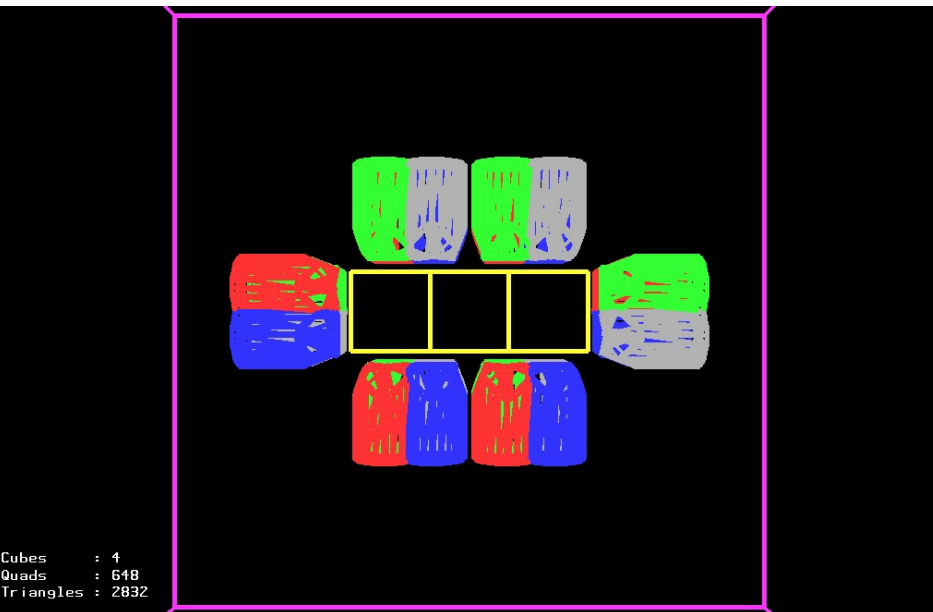
AGATA &

Calorimeter + Si Detectors

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Andrea Jungclaus : andrea.jungclaus@uam.es



- **Simulation Website -**

<http://www.usc.es/genp/r3b/>

- **Choose a tool for code-version control and maintenance**

- CVS or CVSweb

- ... others ?

Structure of the Common group

Common Simulation and Data Analysis Working Group

Coordinator: Marc Labiche

... ?	ELise	EXL		R3B	Hispec/Despec	?...
	Coordinator: JM Udias	Coordinator: Angela Bracco Deputy: Oleg Kiselev		Coordinator: Hector Alvarez Deputy: M. Labiche	Coordinator: ?	
	?	Task Coordinators	Task	Task Coordinators	?	
		G. Colo + Madrid,Surrey,Basel	Theory input	J. Al-Kahlili + Madrid		
		O. Kiselev + GSI, UK	Recoil detector	M. Labiche + Mainz,Kurtchatov		
		O. Tengblad (?) + Orsay, Milano	γ calorimeter	H. Alvarez + UK,Madrid,Valencia,Cracow		
		D. Rohe (?)	Neutron detector	K. Boretzky		
		H. Weick (?)	Spectrometer	R. Lemmon		
		O. Kiselev	Test experiments	R. Lemmon (QFS) + Chalmers (Halo)		

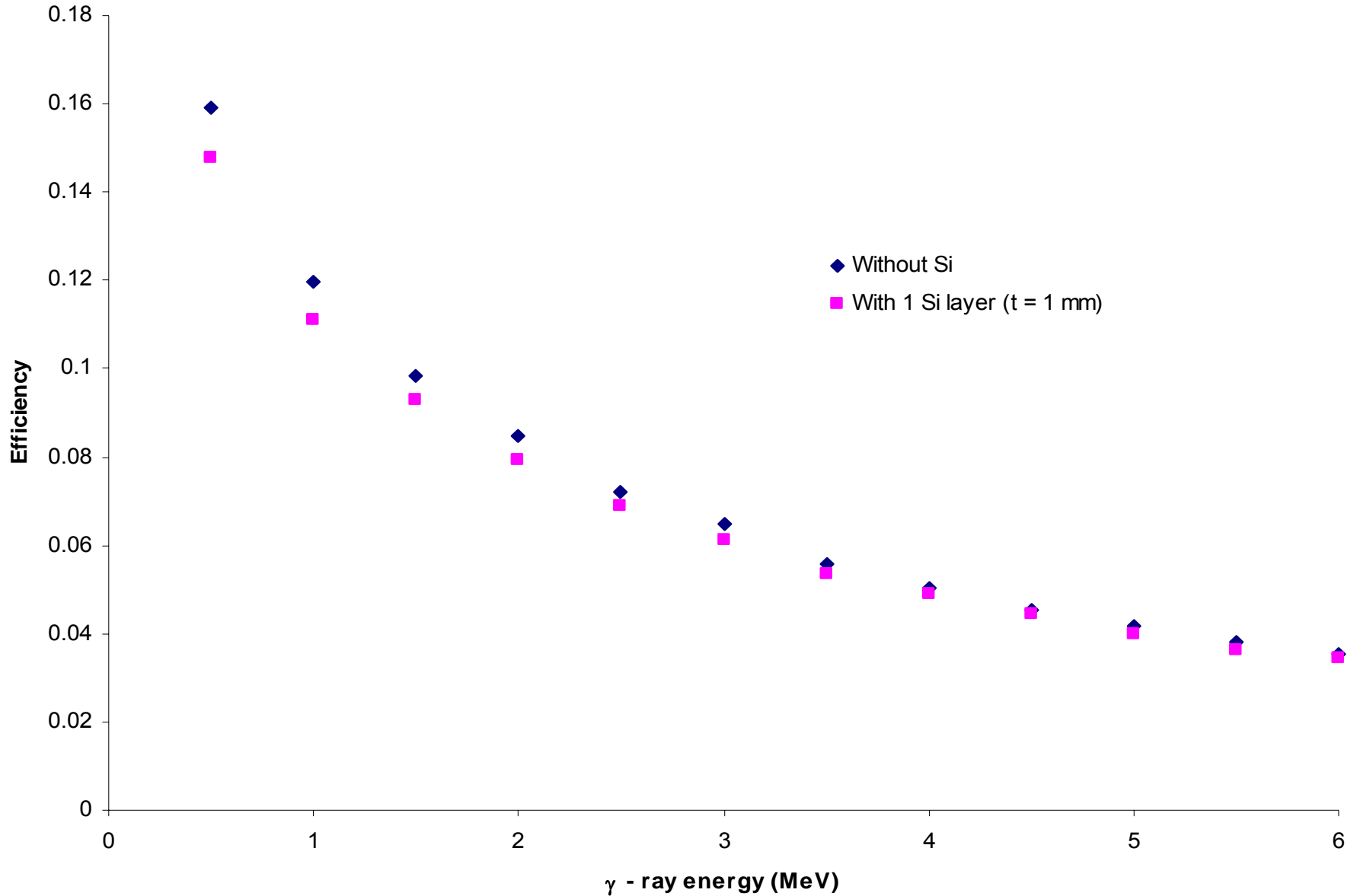
- **Next Meeting :**

- EXL/R3B collaboration meeting in Santiago (28-30/09/2005)
- SWG meeting on the Friday afternoon (To be confirmed)

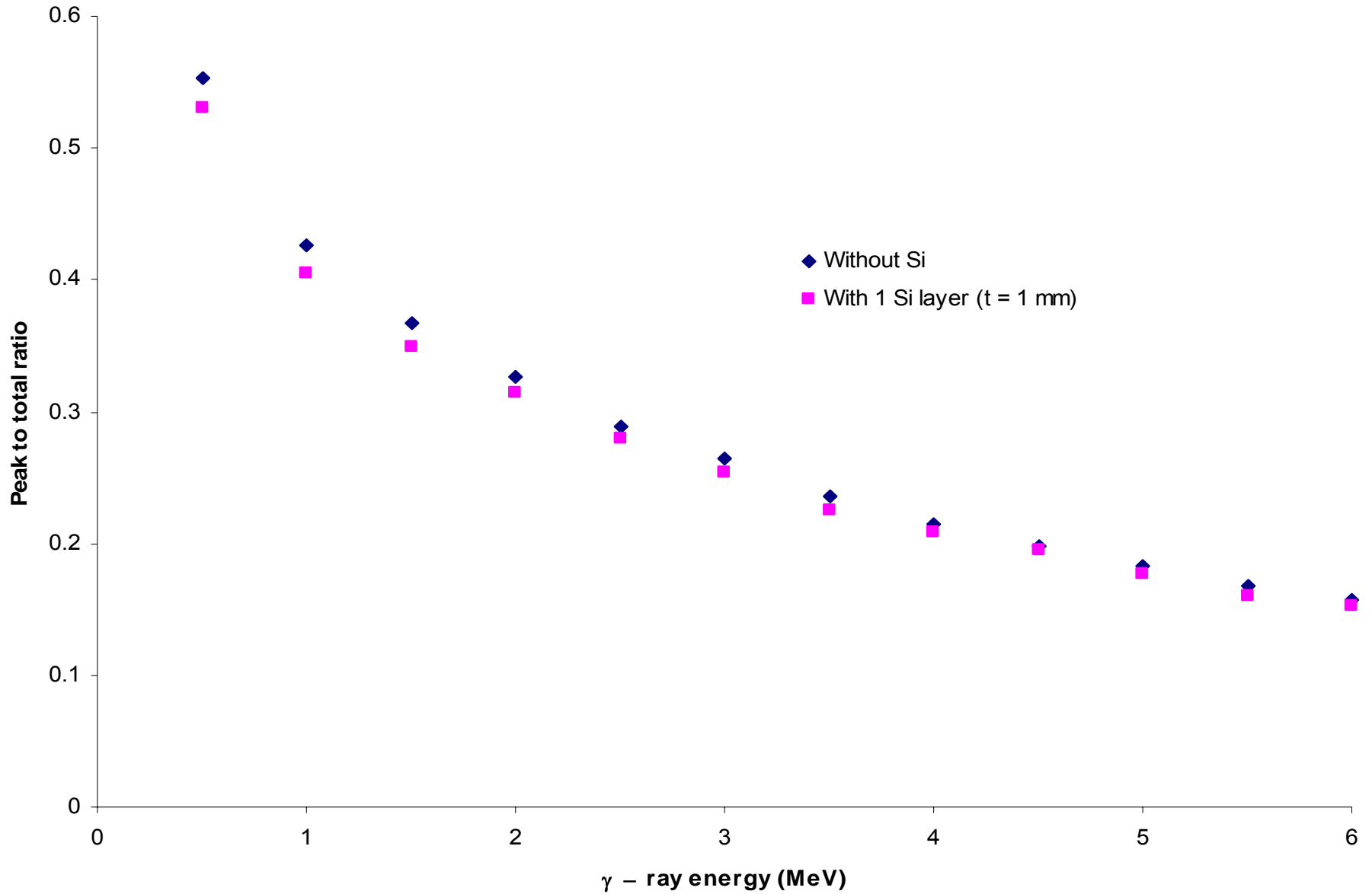
- **Mailing-list :**

NUSTAR-SIMULATION@gsi.de

Photopeak efficiency of six clovers with and without Si detectors



Peak to total ratio of six clovers with and without Si detectors



Photopeak efficiency of six clovers without Si detectors

