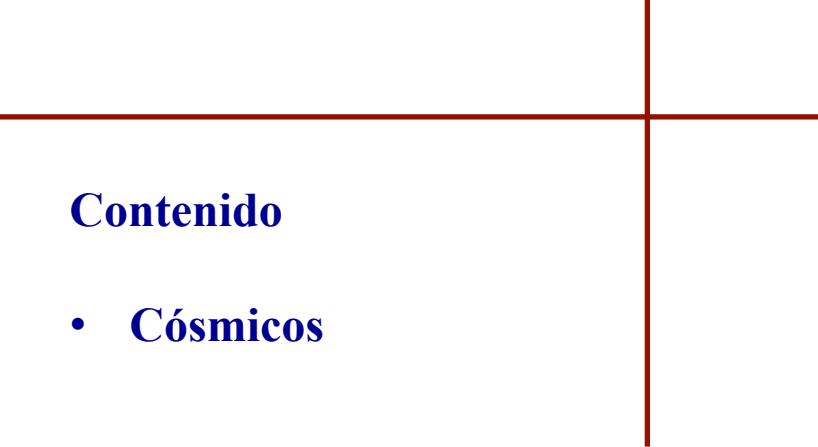


Reporte de Actividades

Mario Rodríguez Cahuantzi

01 de Junio de 2012

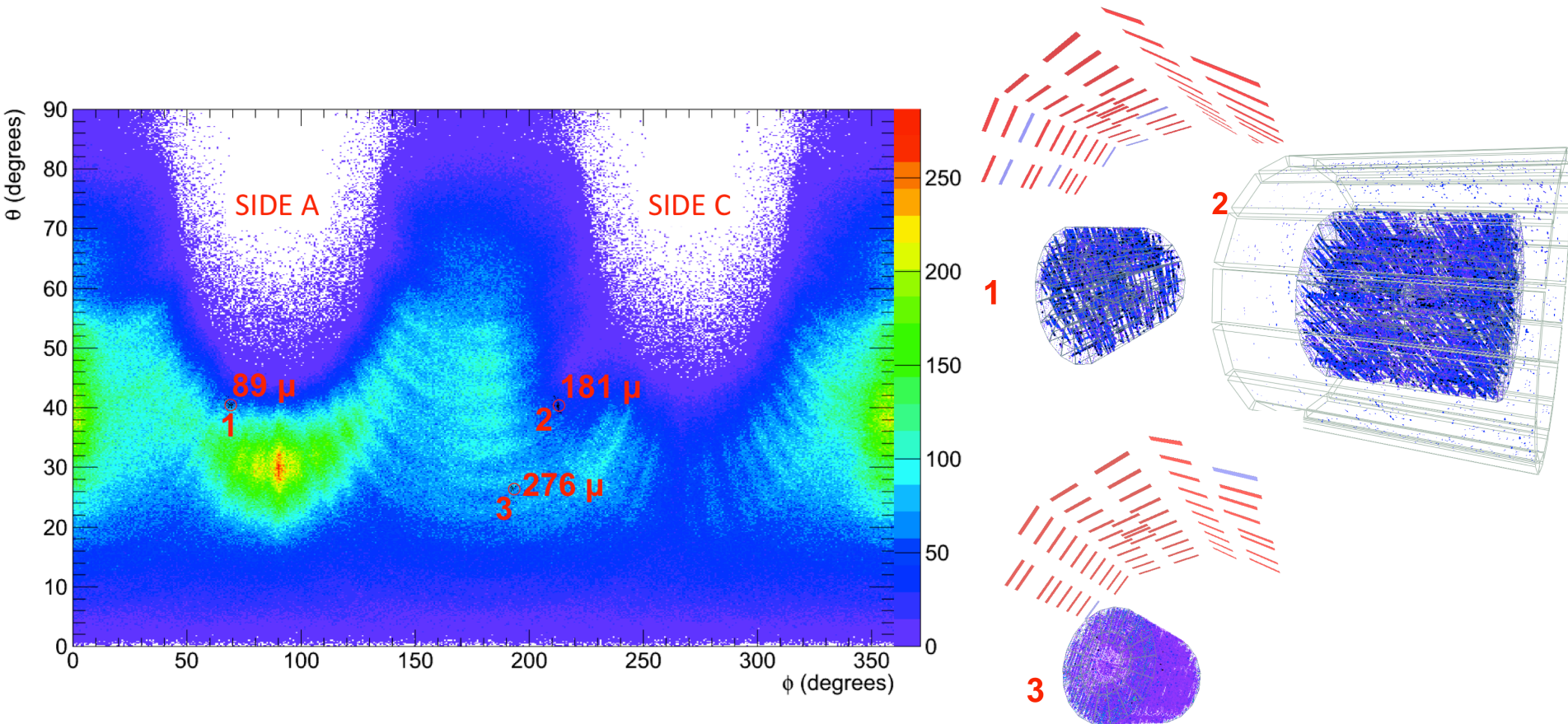


Contenido

- Cósmicos

□ Cósmicos

- Se agregó la información de ACORDE al árbol para el análisis de datos de 2010, 2011 y 2012 incluyendo la información del VZERO para BG rejection.
- Se mandaron las figuras para el artículo en CERN courier a Christine Sutton.



□ Cósmicos

Para los datos de 2012 ya existen algunas corridas reconstruidas. Se analizó el 92.40% de la estadística para estas corridas.

Run number	duration(hours)	L0b	rate L0b (Hz)	L2a	rate L2a (Hz)	Dead time	rate L2a/L0b
176661	0.446944444	48	0.033080634	17	0.011716058	0.354166667	0.354166667
176701	0.211944444	34	0.049635036	27	0.039416058	0.794117647	0.794117647
177580	0.361111111	38	0.035120148	17	0.015711645	0.447368421	0.447368421
177592	0.18	13	0.023423423	6	0.010810811	0.461538462	0.461538462
177601	0.949722222	117	0.036448598	69	0.021495327	0.58974359	0.58974359
177612	0.238611111	32	0.048632219	14	0.021276596	0.4375	0.4375
177620	0.460277778	59	0.040494166	14	0.009608785	0.237288136	0.237288136
177624	0.77	109	0.040415276	69	0.025583982	0.633027523	0.633027523
177671	1.6675	211	0.038121048	145	0.026196929	0.687203791	0.687203791
177681	0.284444444	34	0.03803132	24	0.026845638	0.705882353	0.705882353
177798	1.203333333	162	0.042597949	52	0.013673416	0.320987654	0.320987654
177799	0.676666667	81	0.034191642	56	0.023638666	0.691358025	0.691358025
179618	0.846111111	106	0.035738368	55	0.018543493	0.518867925	0.518867925
179621	1.390555556	180	0.036378335	172	0.03476152	0.955555556	0.955555556
179685	0.358333333						
179837	0.277777778	27	0.028571429	25	0.026455026	0.925925926	0.925925926
179858	2.938333333	346	0.034896621	321	0.032375189	0.927745665	0.927745665
179859	0.730833333	92	0.035755927	84	0.032646716	0.913043478	0.913043478
179918	4.371111111	588	0.039173884	547	0.036442372	0.930272109	0.930272109
179920	3.501666667	469	0.03898911	444	0.036910799	0.946695096	0.946695096

ACORDE solo como lectura

Tiempo efectivo: 21 horas

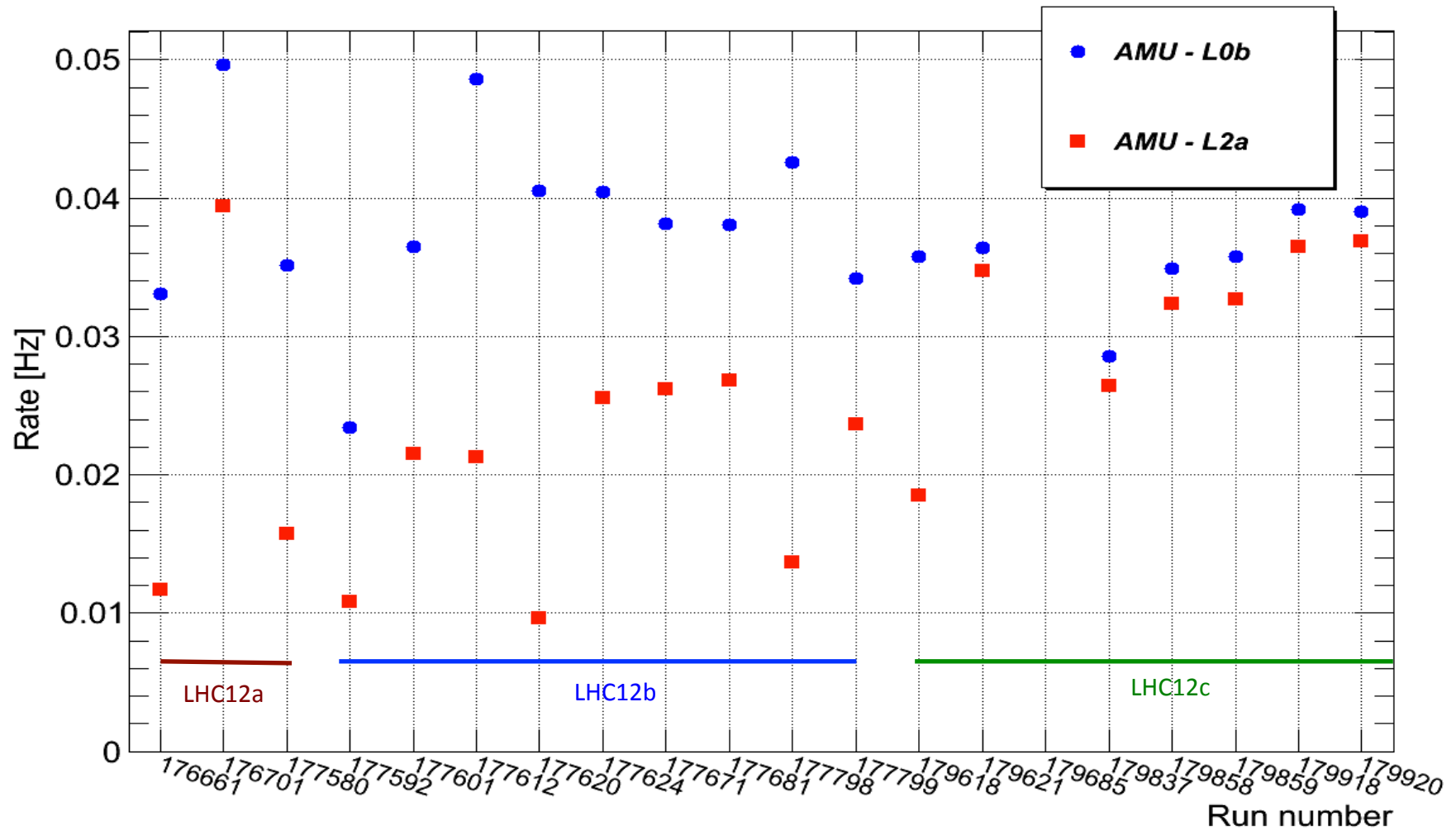
total de L0b: 2746

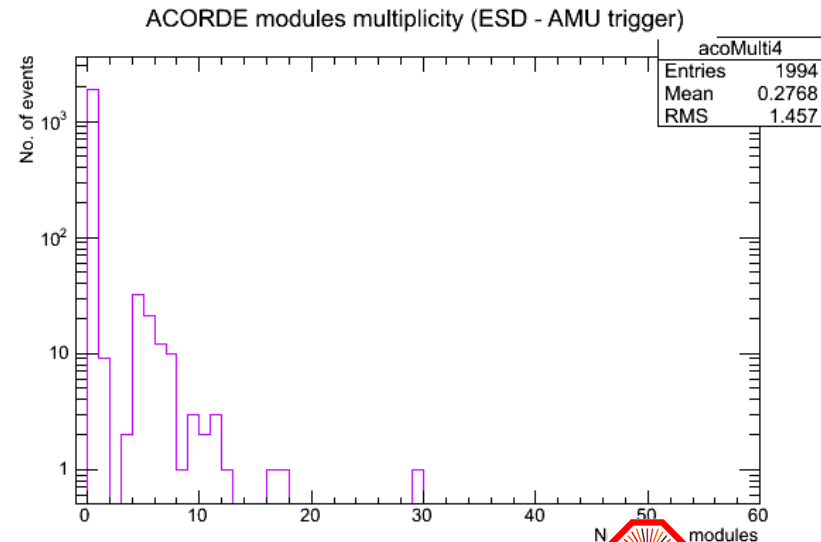
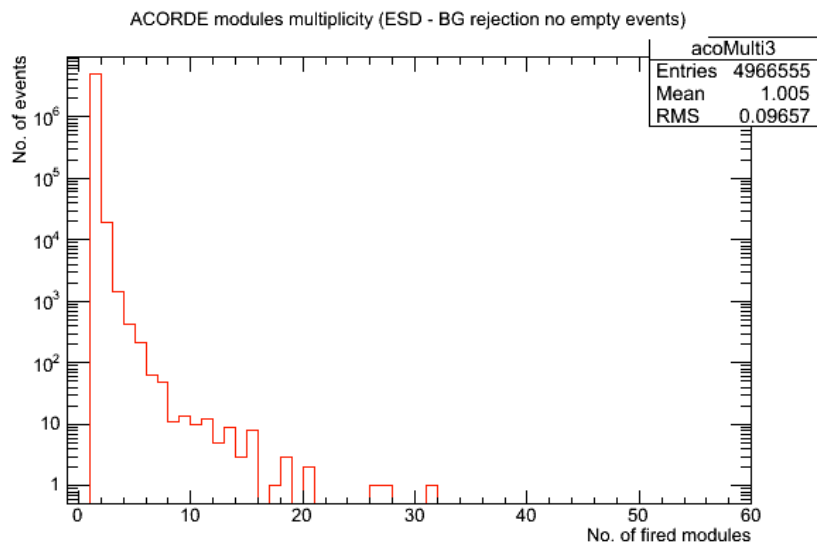
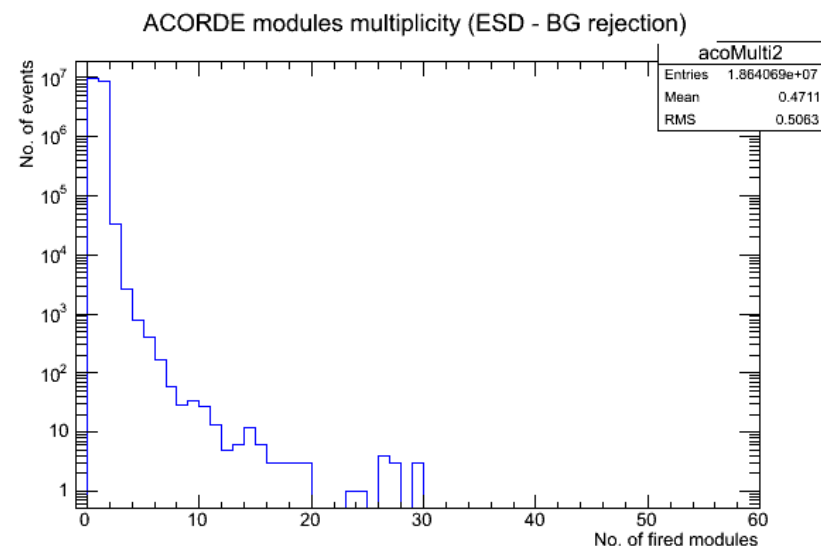
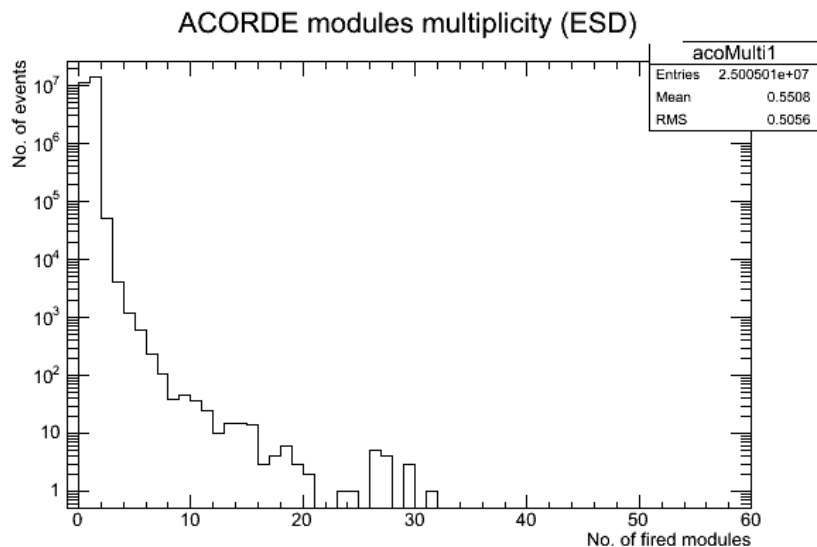
total de L2a: 2158

eventos analizados con trigger AMU: 1994

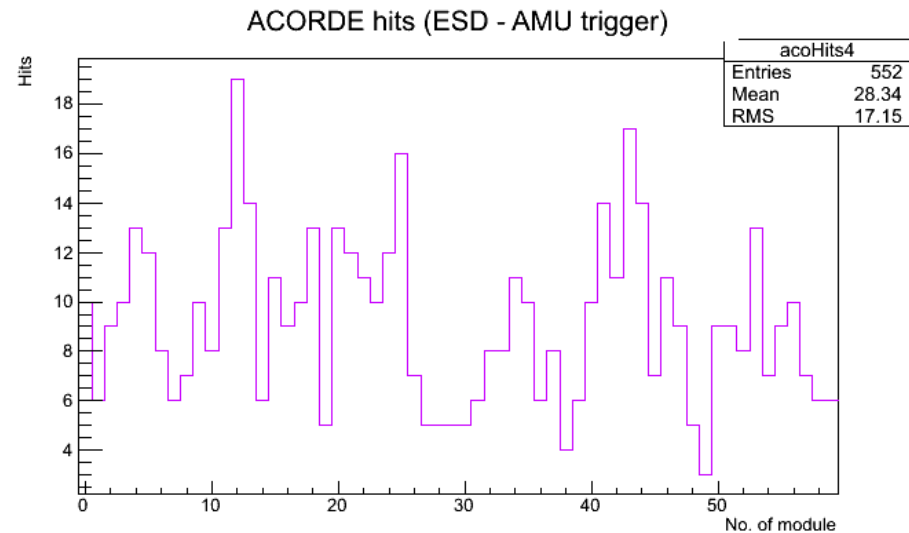
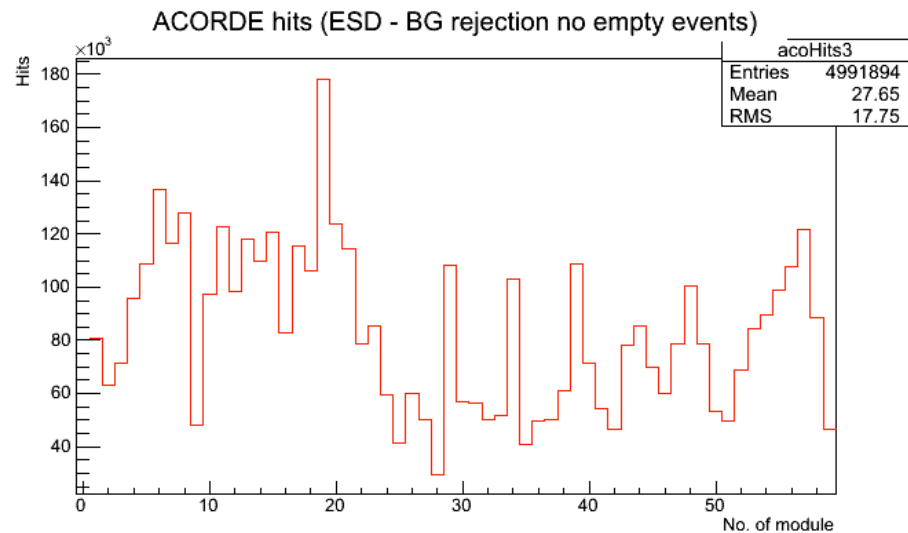
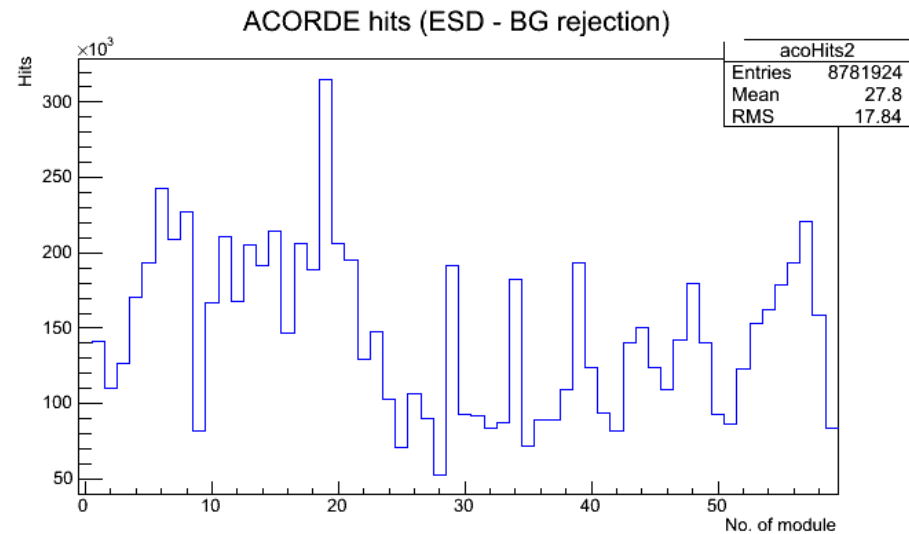
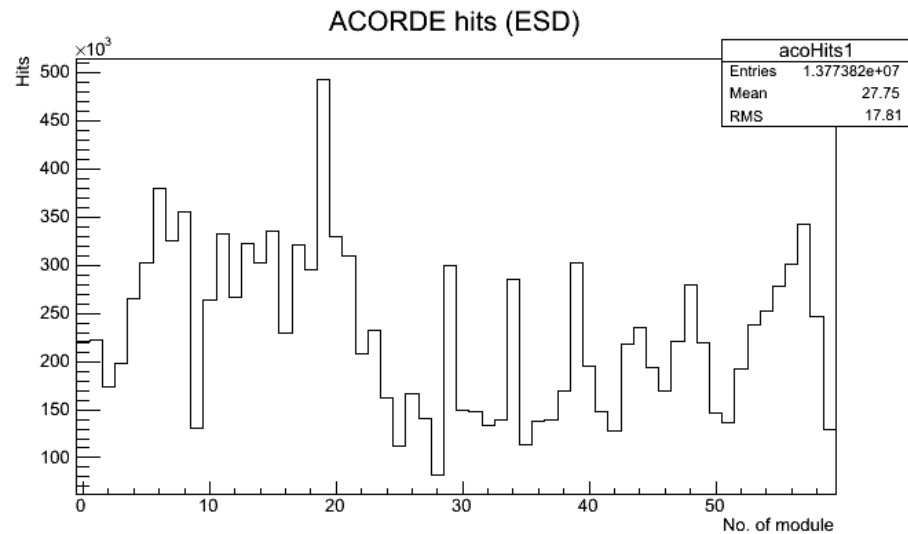


Rate of ACORDE



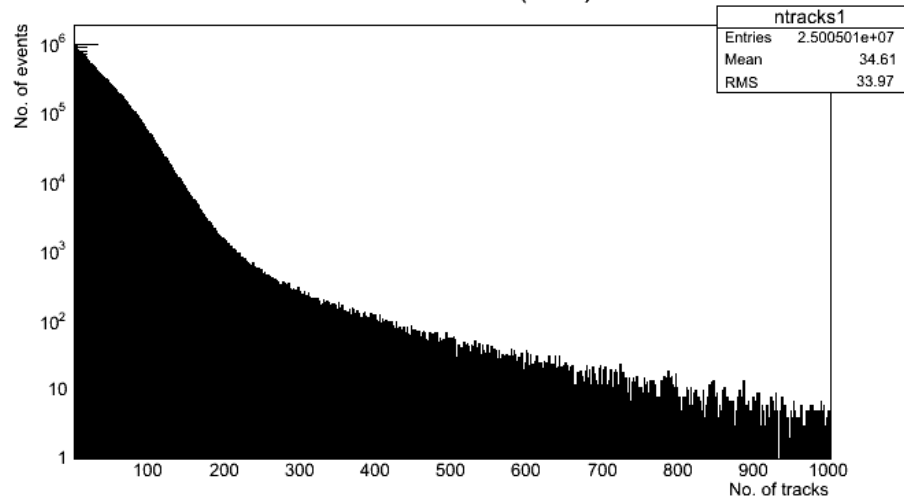


□ Cósmicos

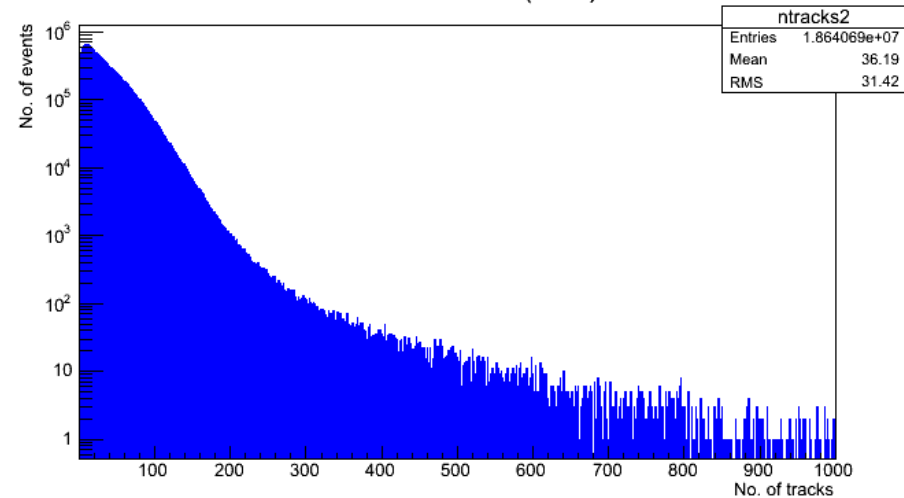


□ Cósmicos

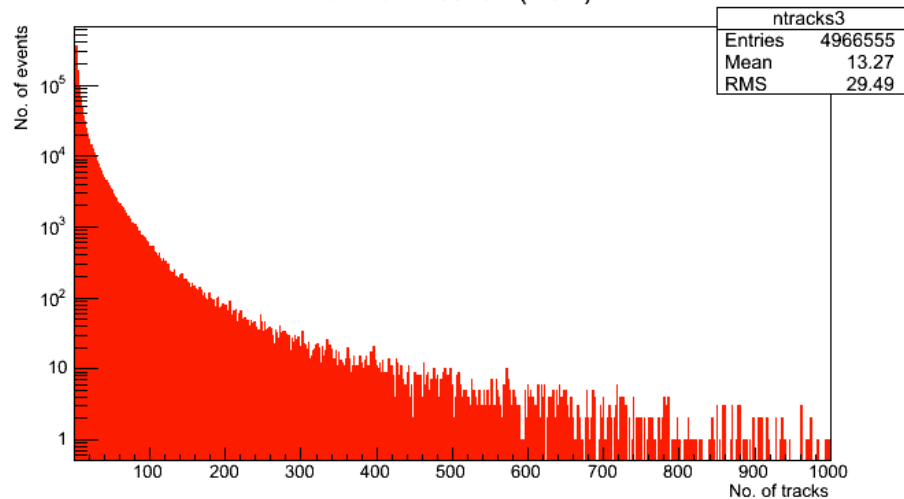
track distribution (ESD)



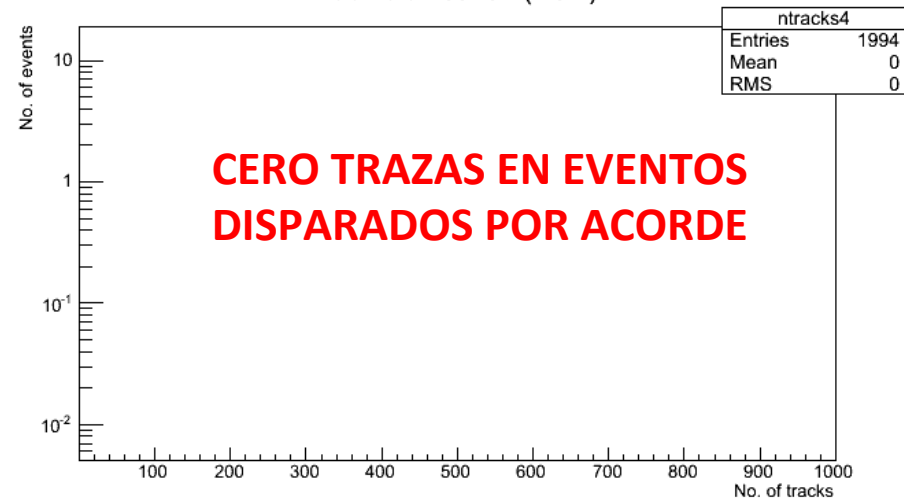
track distribution (ESD)



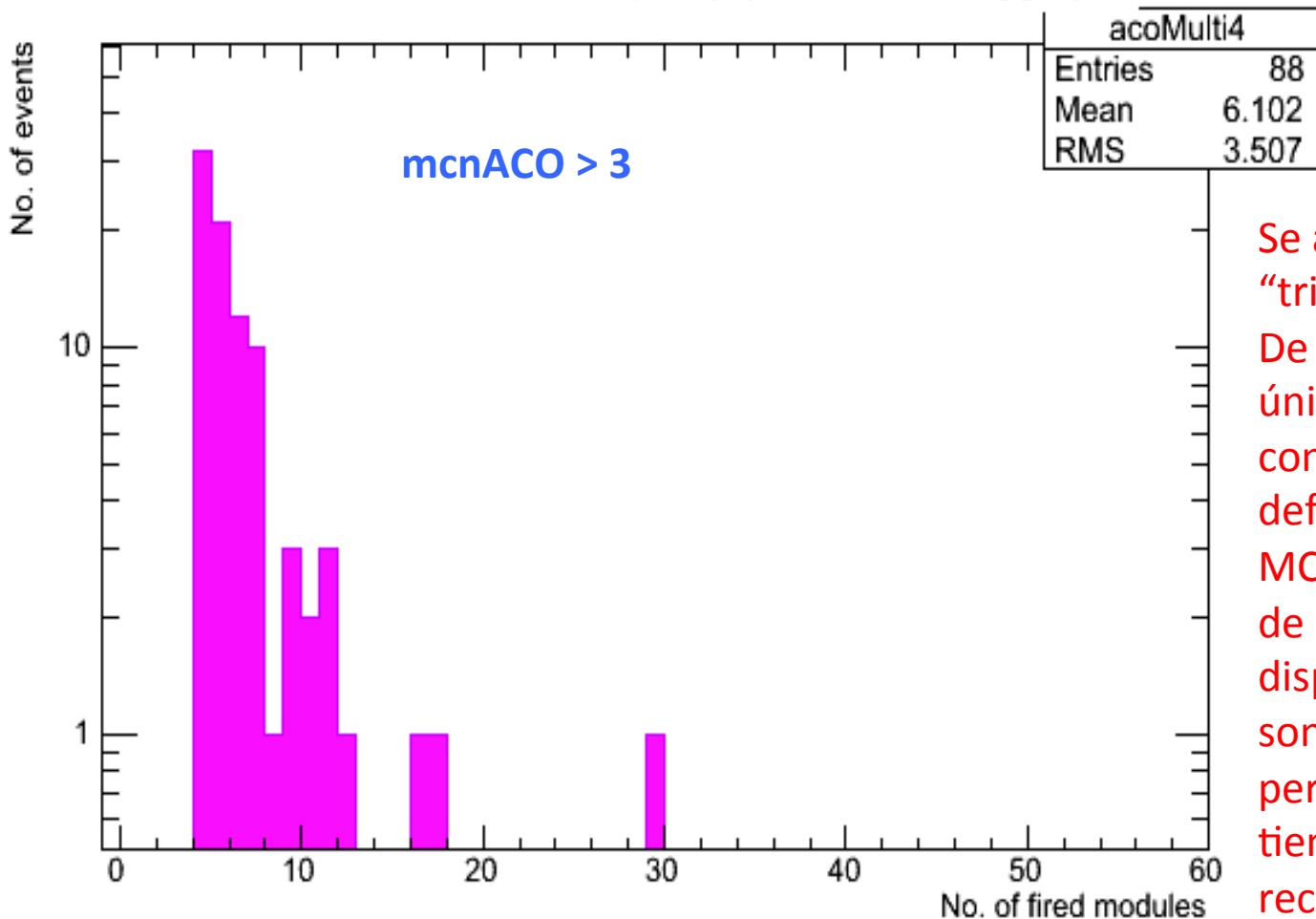
track distribution (ESD)



track distribution (ESD)



ACORDE modules multiplicity (ESD - AMU trigger)



Se analizaron 1999
"triggers" de ACORDE.
De los cuales
3nicamente 88 cumplen
con la condici3n que se
defini3 en la electr3nica
MCN=4 → s3lo el 4.4%
de los eventos
disparados por ACORDE
son "buenos" ?? →
pero ninguno de ellos
tiene traza alguna
reconstruida.

Evgeny

- ACORDE alignment (needed to trigger ACORDE in coincidence with TOF):
 - ✓ 0AMU threshold temporary set to 1-fold coincidence
 - ✓ 0ASL-0AMU delay measured
 - ✓ 0AMU seem to arrive after all other L0 inputs (2 bc delay)
 - ✓ Difficult to align with SMAQ -> correlation plots (see Roman's talk)

<https://indico.cern.ch/conferenceDisplay.py?confId=186487>

□ Comentarios finales

Faltan escanear los 88 eventos disparados por ACORDE.

Alrededor del 96 % de los eventos disparados por ACORDE al parecer son vacíos.

¿cuál es el siguiente paso?

