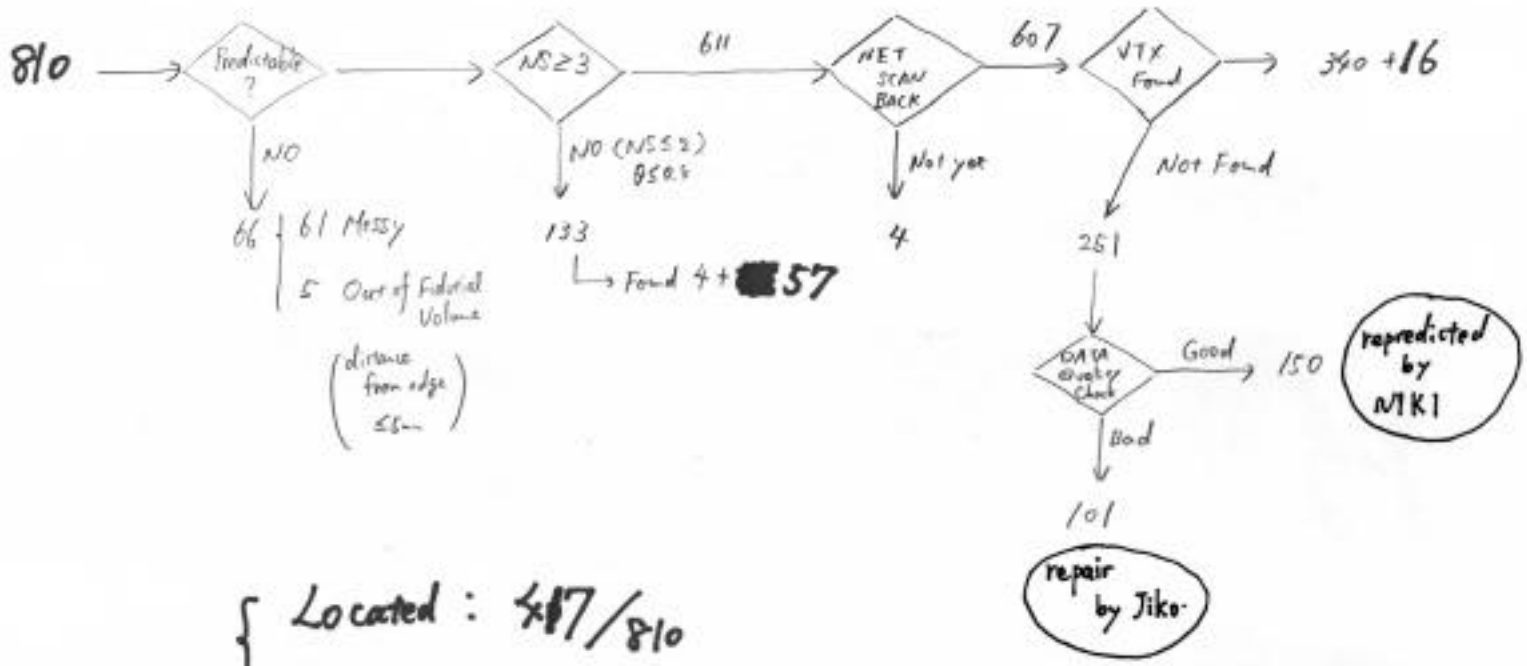
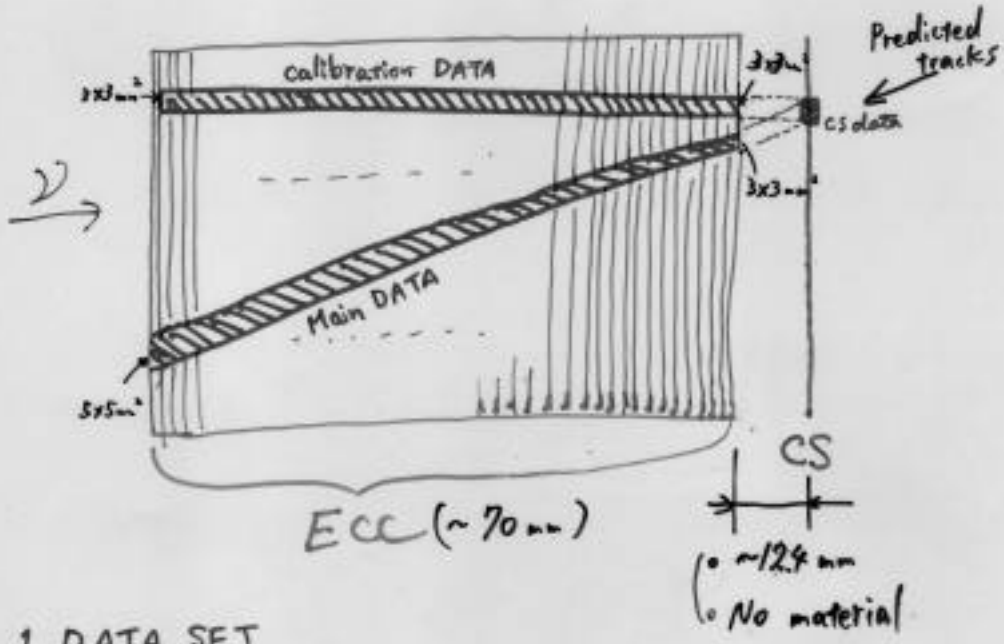
DONUT STATUS



Located : 487/810

New ev : 73 → should be analyzed from now.

NETSCAN BACK Location DATA TAKING

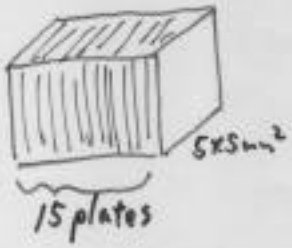


1 DATA SET

	Down stream	Up stream		
Main DATA	3x3 →	5x5 mm²	(48 ~ 60 plates)	833 mm²
Calibration DATA	3x3 →	3x3 mm²	(48 ~ 60 plates)	540 mm²
CS	3.6 x 2.6 mm²		(1 plates)	~18 mm²
			97 ~ 121 plates	~1390 mm²

⇕

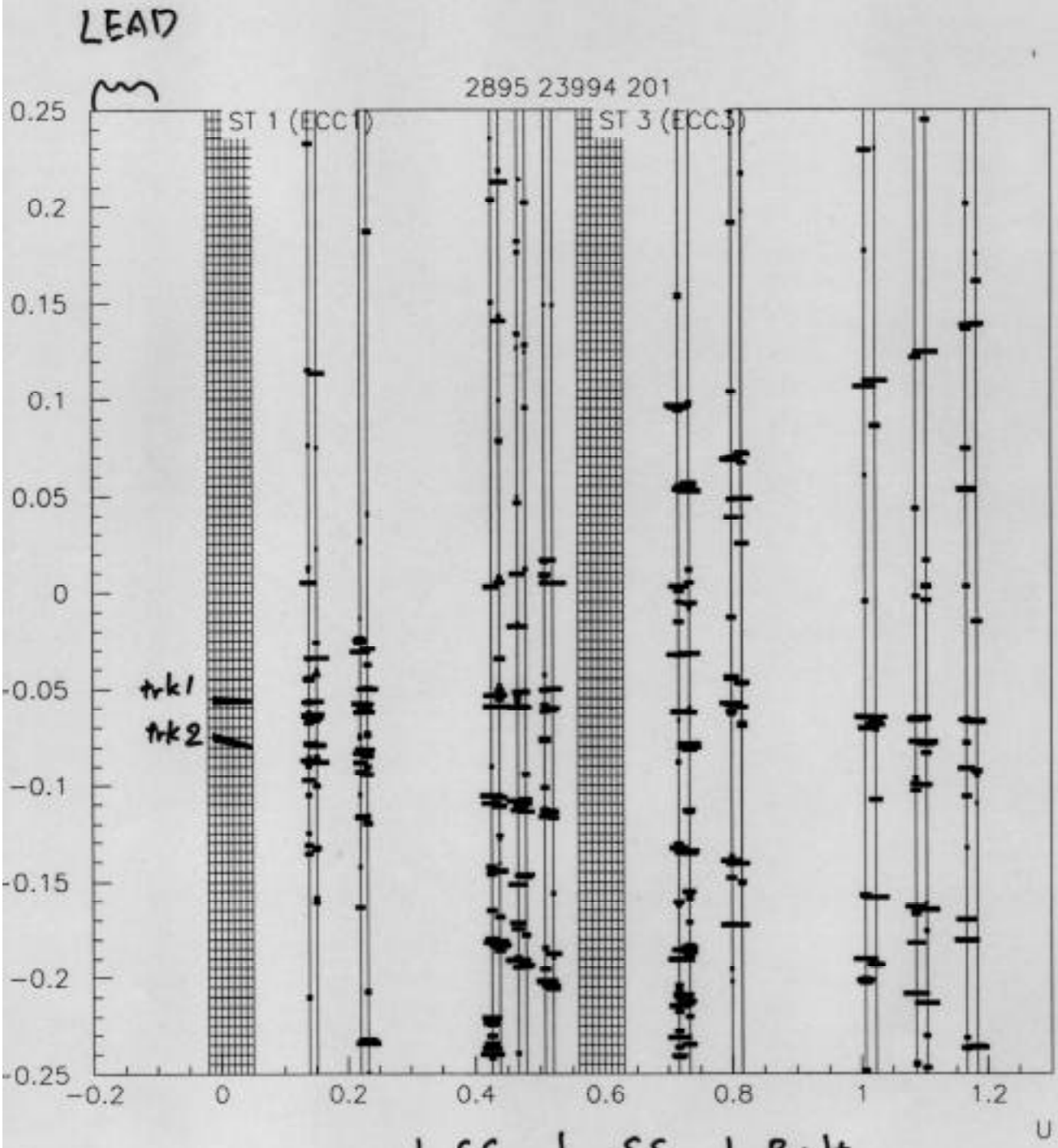
Normal NETSCAN DATA



375 mm²

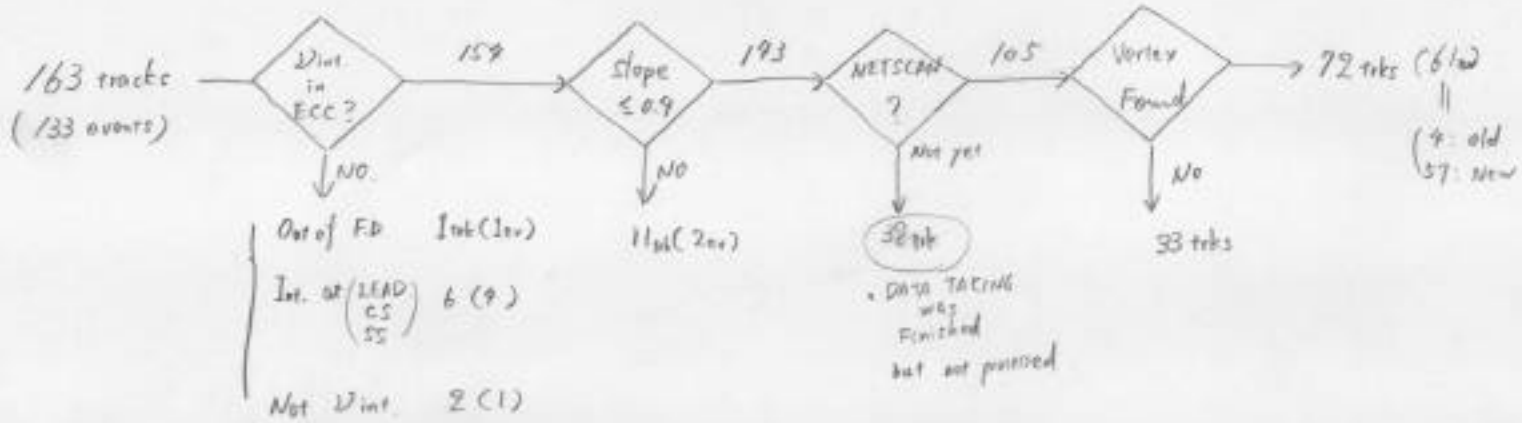
~4 times larger

LEAD int. (example)



	CS	SS	Result
trk1	2	1	つきぬけ
trk2	2	1	つきぬけ

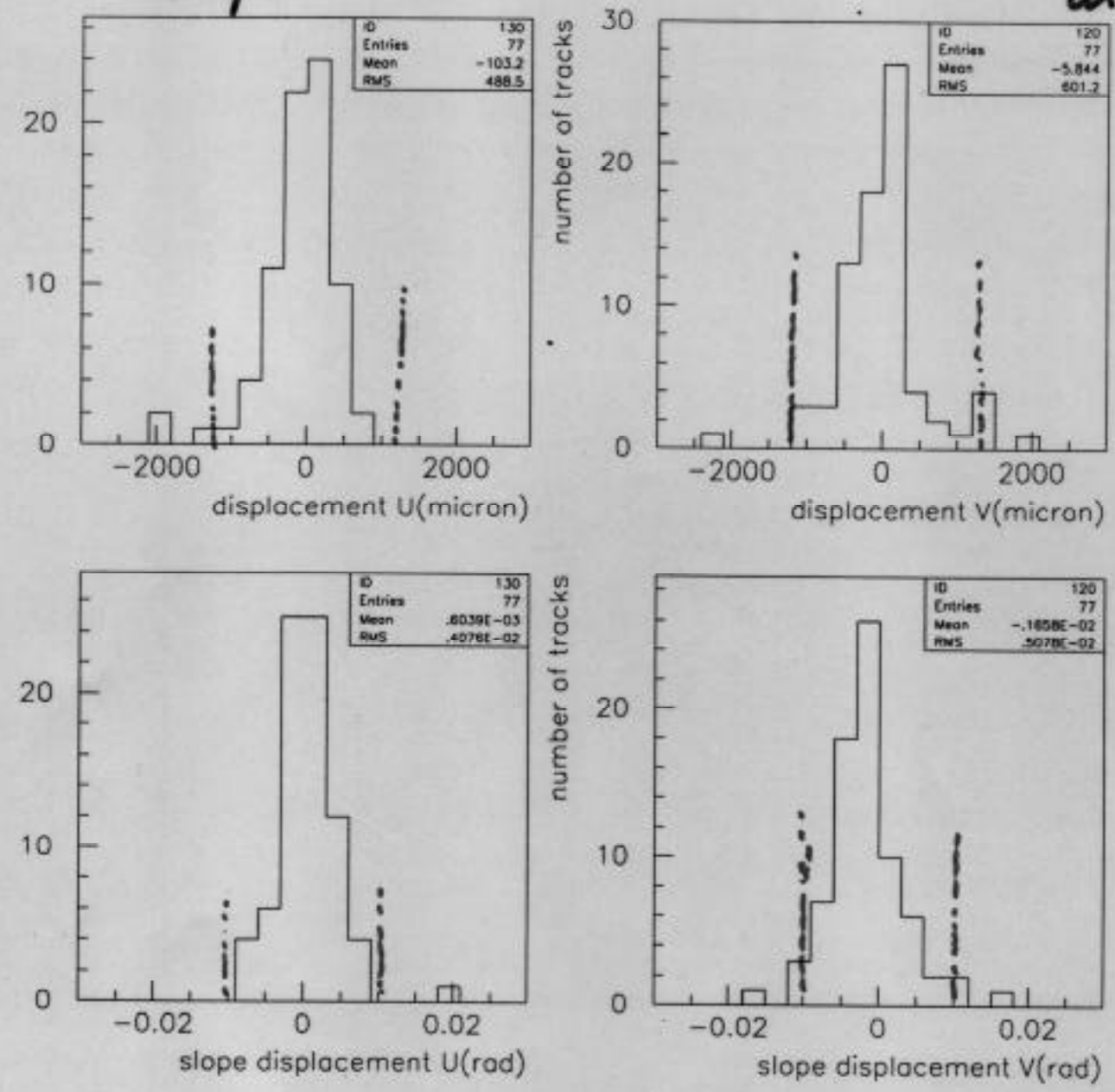
DONUT NETSCAN BACK LOCATION



Not yet found event

33 tracks —
- Bad Prediction 19 → should be repredicted (Vittorio)
- Messy events 2 (caused by Event categorized)
- No candidate in CS (CS damage etc.) 4 → should be searched in SS plate.
- Not connected to SS 2 → should be rechecked
- Bad alignment in ECC 6 (caused by big local distortion)

Slope at CS.



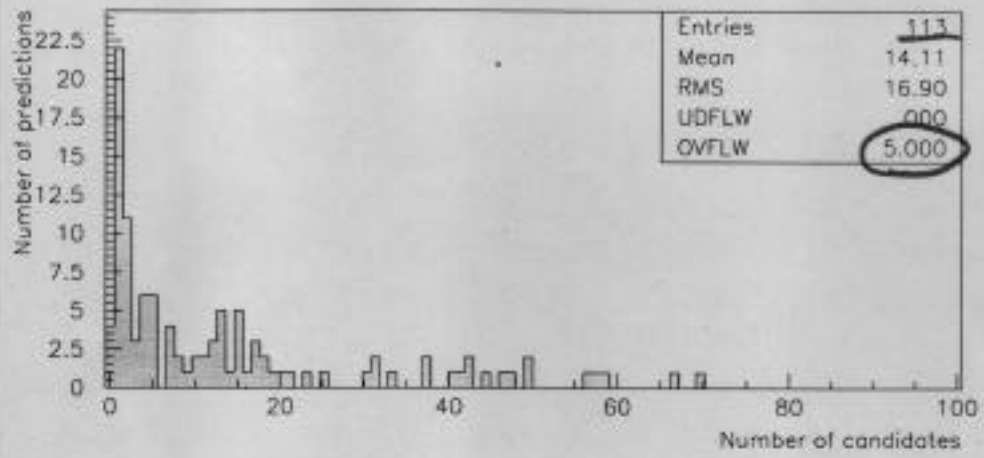
→ 1st. selection at CS

$\Delta U (\Delta V) \leq 1300 \mu$

$\Delta \theta_u (\Delta \theta_v) \leq 0.01$

Number of candidate tracks

for each event.



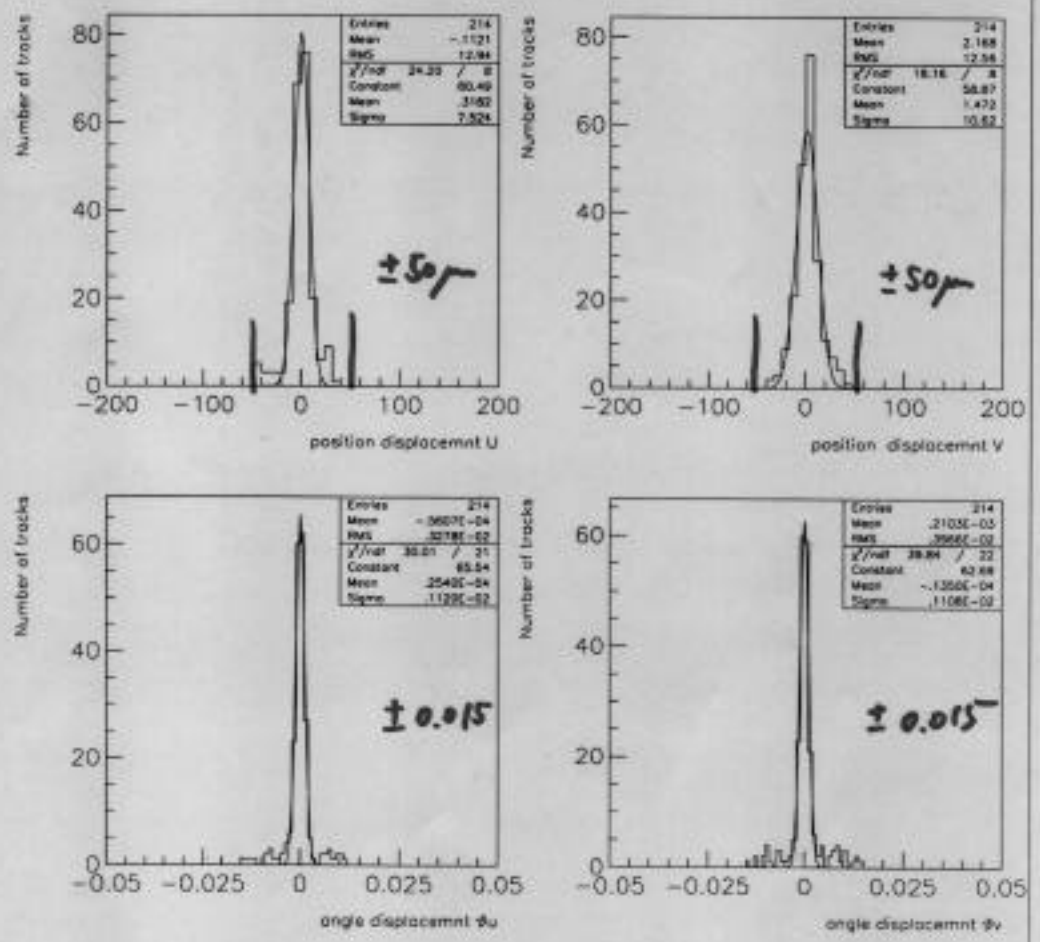
– condition –

- $\theta_u \leq 10$ mrad
- $\theta_v \leq 10$ mrad
- $u \leq 1300\ \mu$
- $v \leq 1300\ \mu$

CS−SS connection

EXP. = e872
RUN = 3186
EVENT = 06199
Version= 30201
MOD = 731
CS−period = 11
emulsion type

cs−ss



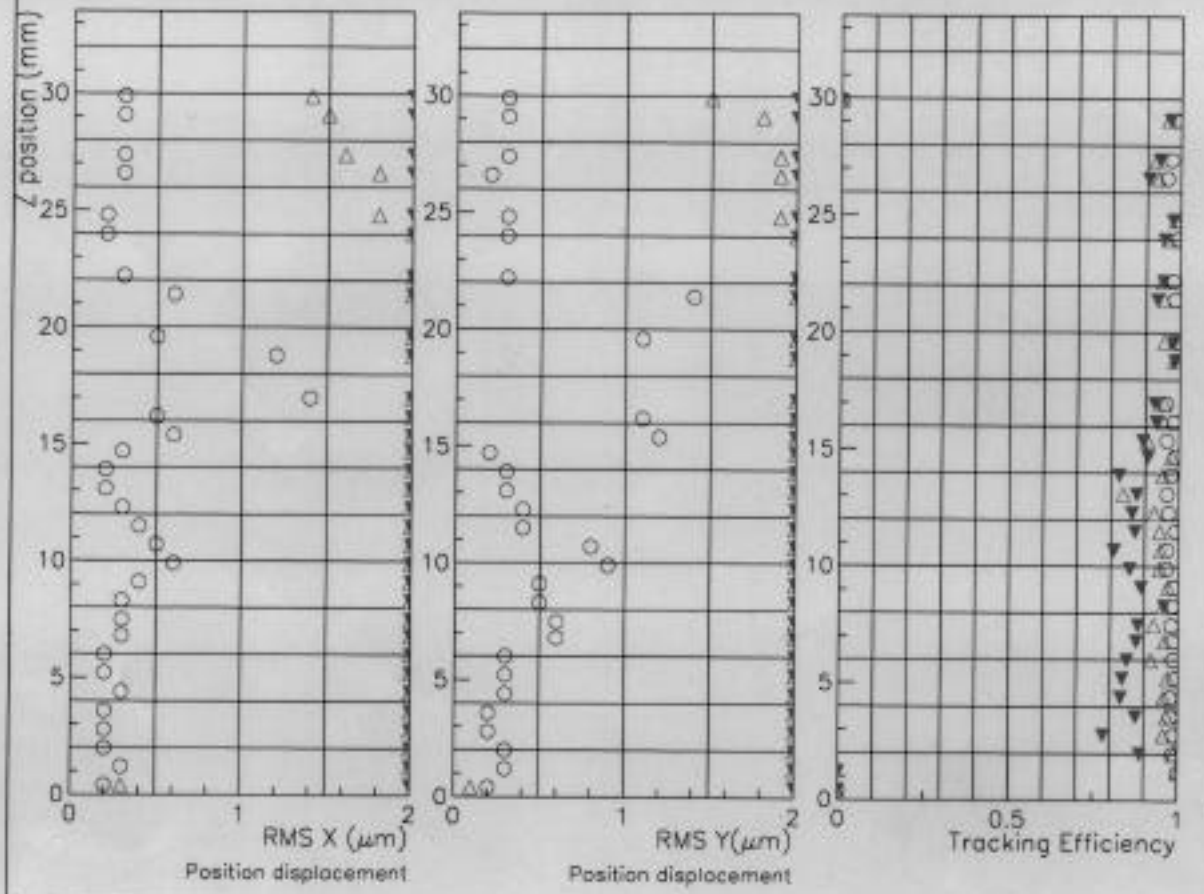
Tracking Characteristics (Summary)

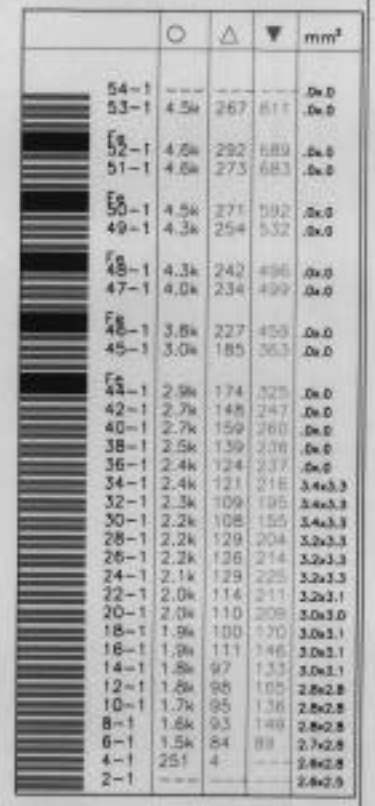
e872 Slip event

RUN=2990 EVENT=09199 MODULE=4

Before Alignment

○ θ<0.1rad
△ 0.1<θ<0.2rad
▼ θ>0.2rad





	○	△	▼	mm²
54-1	---	---	---	.0x.0
53-1	4.5k	267	611	.0x.0
Fe				
52-1	4.6k	292	689	.0x.0
51-1	4.6k	273	683	.0x.0
Fe				
50-1	4.5k	271	592	.0x.0
49-1	4.3k	254	532	.0x.0
Fe				
48-1	4.3k	242	496	.0x.0
47-1	4.0k	234	499	.0x.0
Fe				
46-1	3.6k	227	459	.0x.0
45-1	3.0k	185	363	.0x.0
Fe				
44-1	2.9k	174	325	.0x.0
42-1	2.7k	148	247	.0x.0
40-1	2.7k	159	260	.0x.0
38-1	2.5k	139	226	.0x.0
36-1	2.4k	124	237	.0x.0
34-1	2.4k	121	216	3.4x3.3
32-1	2.3k	109	195	3.4x3.3
30-1	2.2k	108	155	3.4x3.3
28-1	2.2k	129	204	3.2x3.3
26-1	2.2k	126	214	3.2x3.3
24-1	2.1k	129	225	3.2x3.3
22-1	2.0k	114	211	3.2x3.1
20-1	2.0k	110	209	3.0x3.0
18-1	1.9k	100	170	3.0x3.1
16-1	1.9k	111	146	3.0x3.1
14-1	1.8k	97	133	3.0x3.1
12-1	1.8k	95	105	2.8x2.8
10-1	1.7k	95	136	2.8x2.8
8-1	1.6k	93	149	2.8x2.8
6-1	1.5k	84	89	2.7x2.8
4-1	251	4	---	2.8x2.8
2-1	---	---	---	2.8x2.9

Tracking Characteristics (Summary)

e872

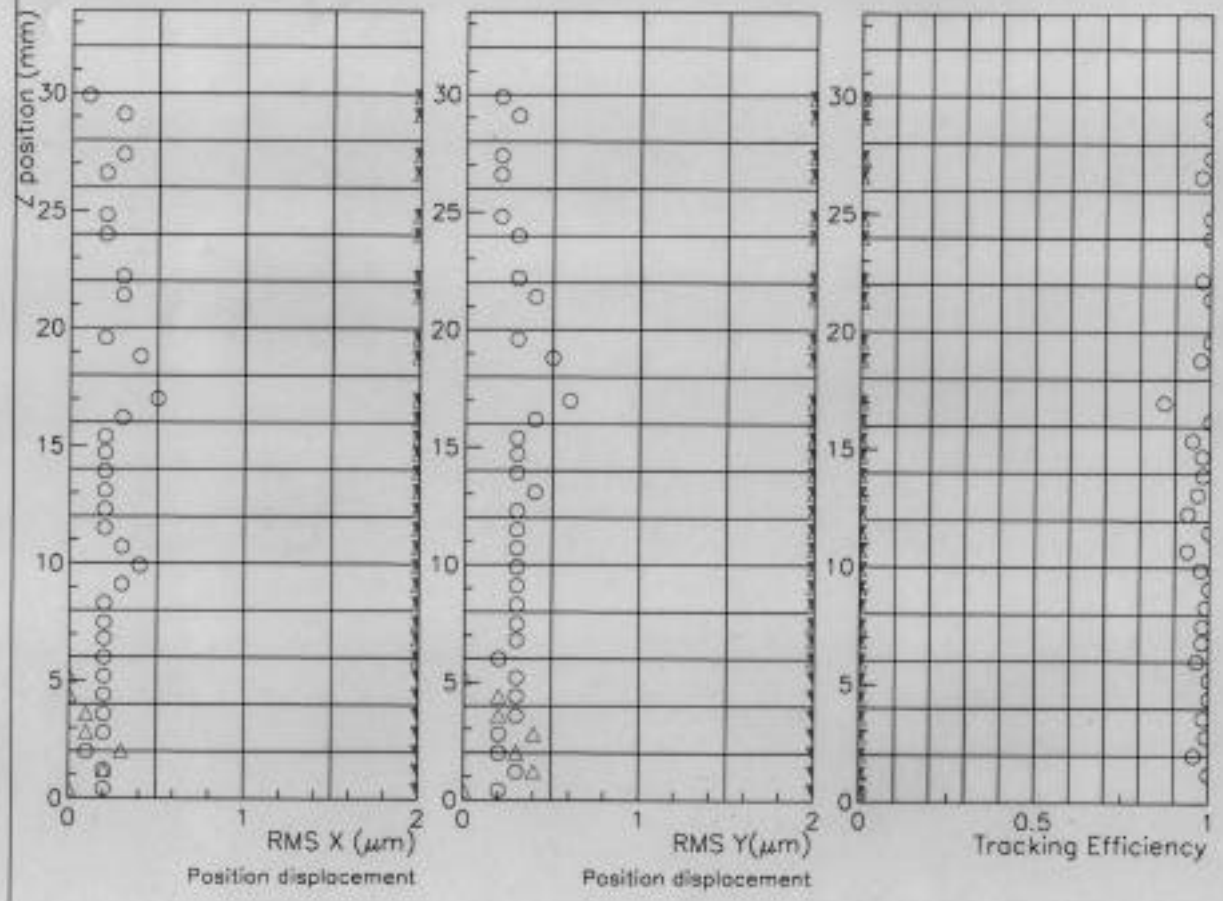
RUN=2990 EVENT=09199 MODULE=4

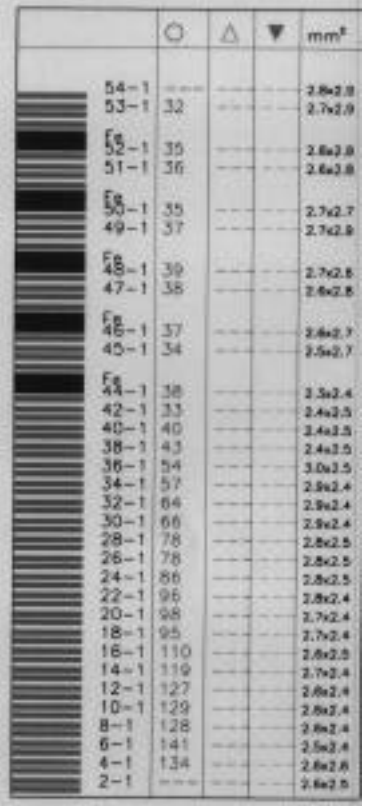
After

○ θ<0.1rad

△ 0.1<θ<0.2rad

▼ θ>0.2rad



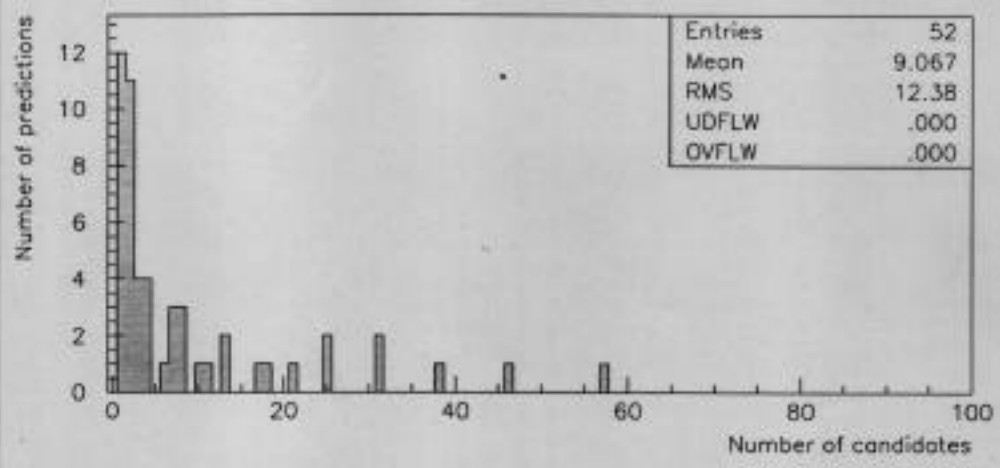


	○	△	▼	mm²
54-1	---	---	---	2.8x2.8
53-1	32	---	---	2.7x2.9
Fe				
52-1	35	---	---	2.6x2.8
51-1	36	---	---	2.6x2.8
Fe				
50-1	35	---	---	2.7x2.7
49-1	37	---	---	2.7x2.9
Fe				
48-1	39	---	---	2.7x2.8
47-1	38	---	---	2.6x2.8
Fe				
46-1	37	---	---	2.6x2.7
45-1	34	---	---	2.5x2.7
Fe				
44-1	38	---	---	2.3x2.4
42-1	33	---	---	2.4x2.5
40-1	40	---	---	2.4x2.5
38-1	43	---	---	2.4x2.5
36-1	54	---	---	3.0x2.5
34-1	57	---	---	2.9x2.4
32-1	64	---	---	2.9x2.4
30-1	66	---	---	2.9x2.4
28-1	78	---	---	2.8x2.5
26-1	78	---	---	2.8x2.5
24-1	86	---	---	2.8x2.5
22-1	96	---	---	2.8x2.4
20-1	98	---	---	2.7x2.4
18-1	95	---	---	2.7x2.4
16-1	110	---	---	2.8x2.5
14-1	119	---	---	2.7x2.4
12-1	127	---	---	2.8x2.4
10-1	129	---	---	2.8x2.4
8-1	128	---	---	2.8x2.4
6-1	141	---	---	2.5x2.4
4-1	134	---	---	2.8x2.8
2-1	---	---	---	2.6x2.5

100+20
5

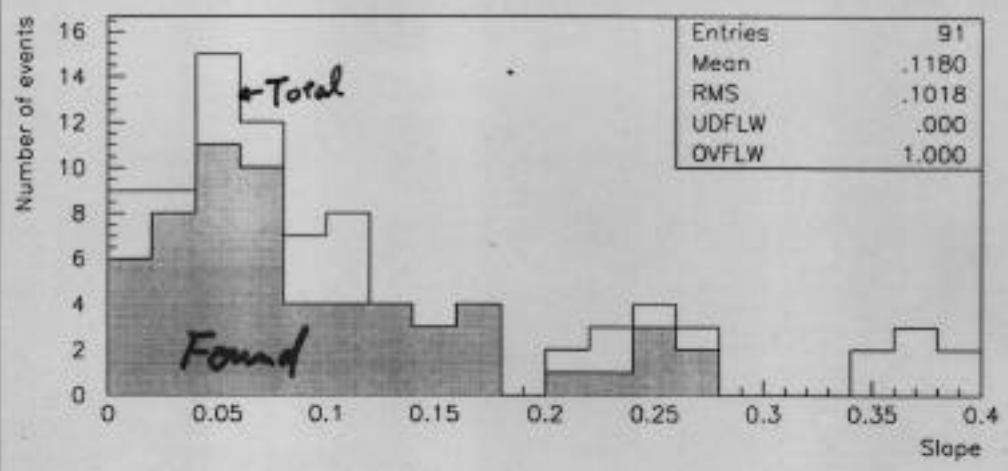
見つかった event の CS での候補数分布

Number of candidates in C.S. (Found events)

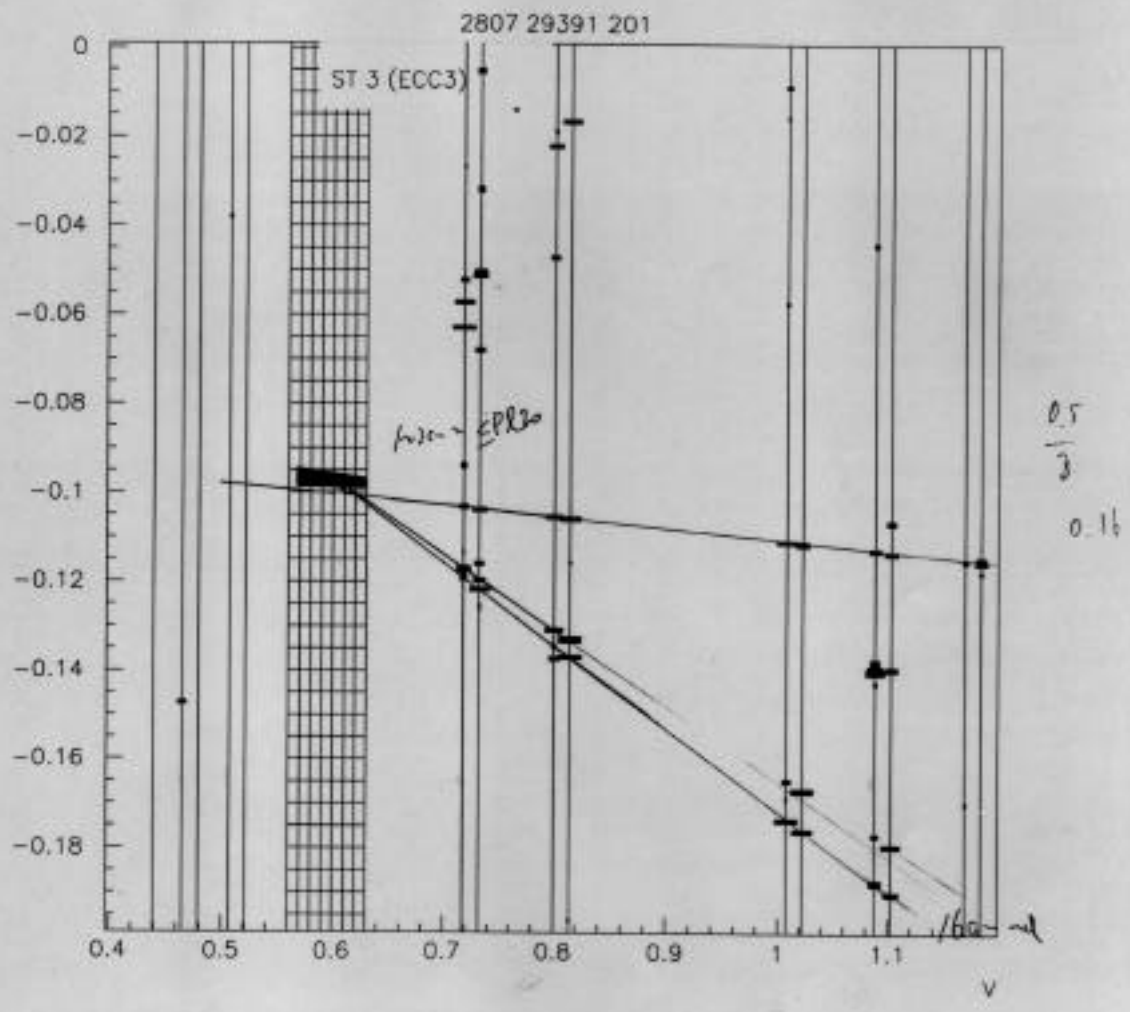


見つかったeventの角度分布と
全eventの角度分布

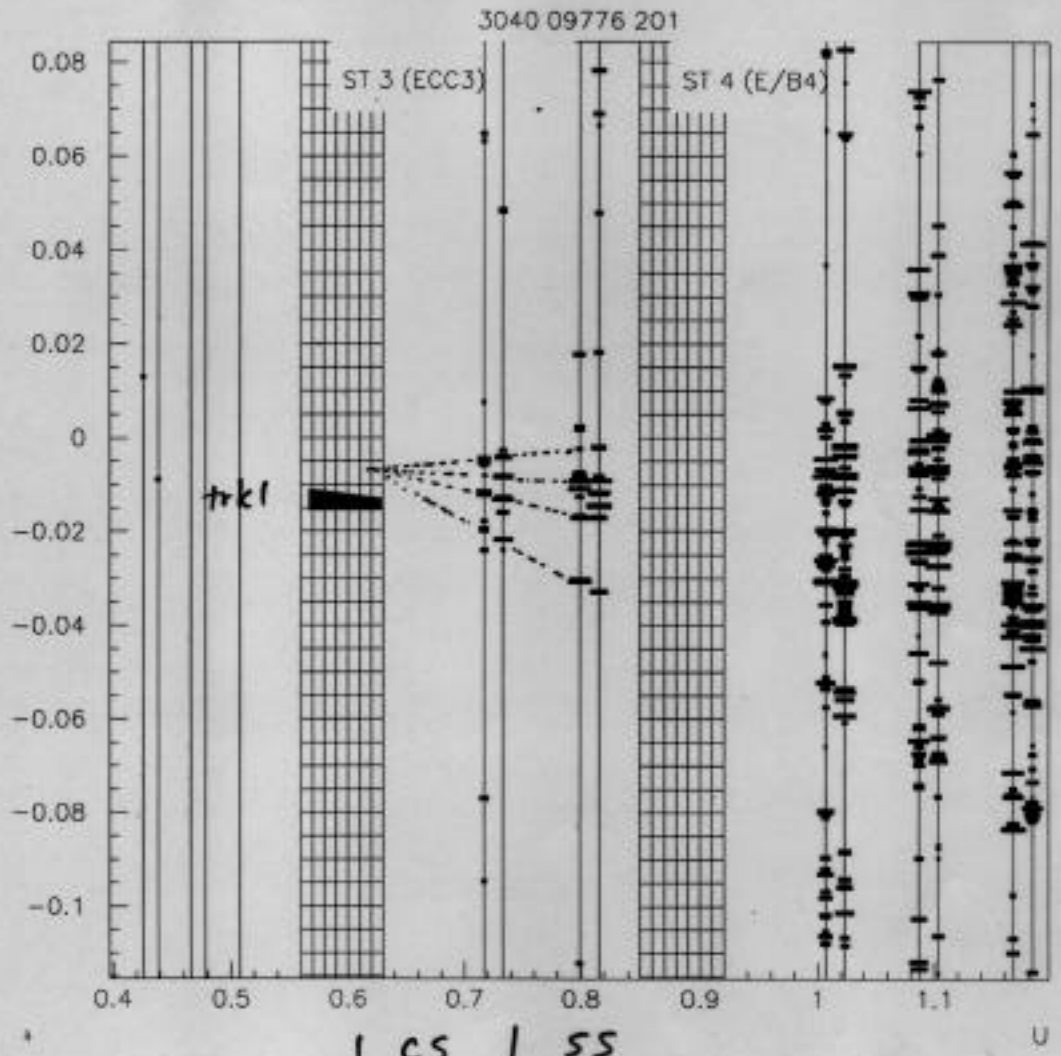
Slope distribution of predicted tracks.



Bad Prediction

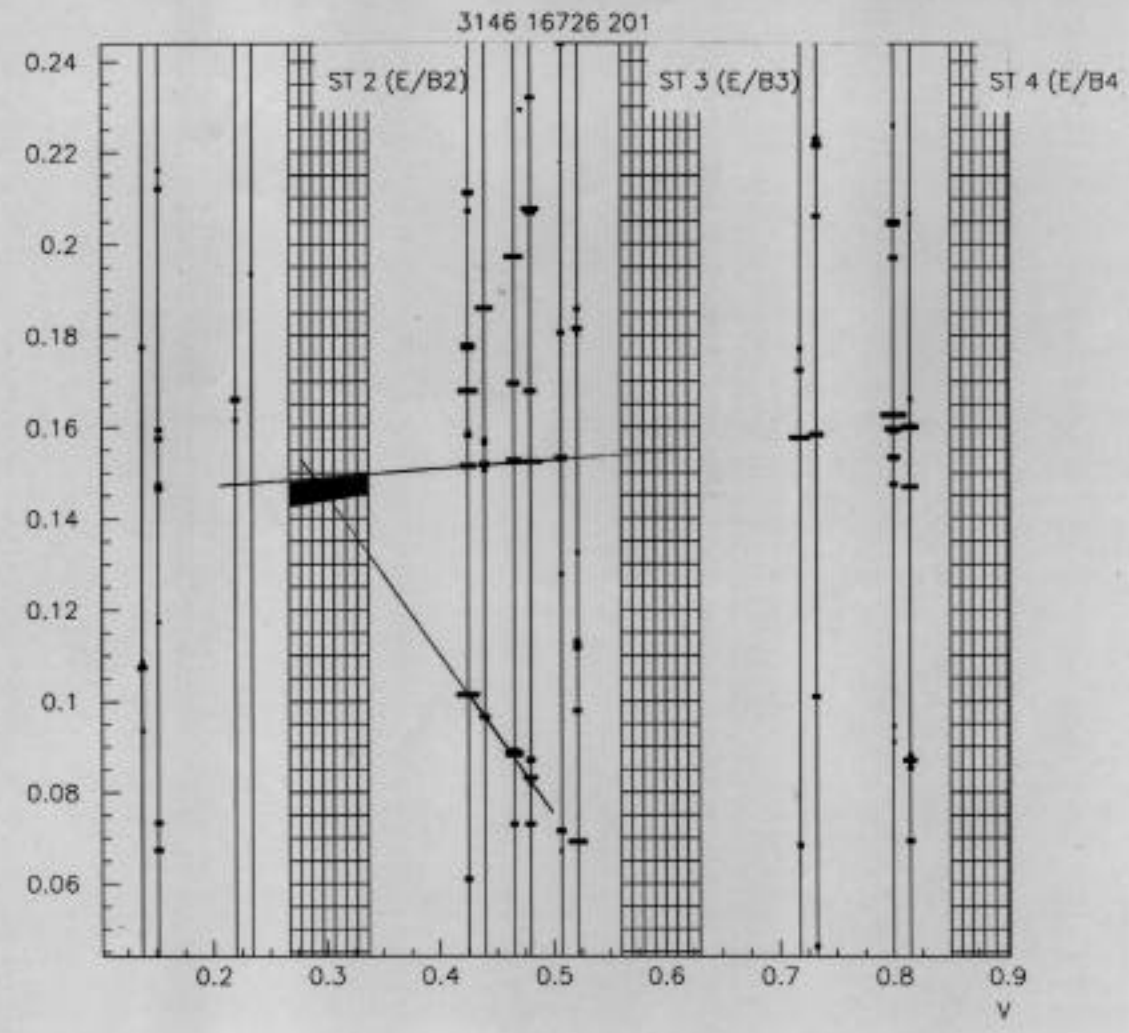


Bad Prediction



	CS	SS
trk1	1	∅

Bad Prediction



NO CS candidate

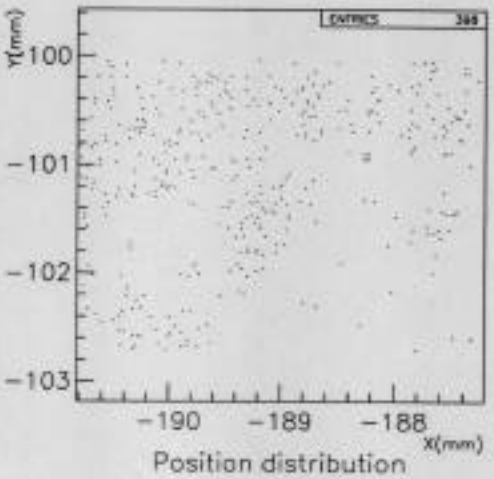
Track Segment DATA

CS DAMAGE.

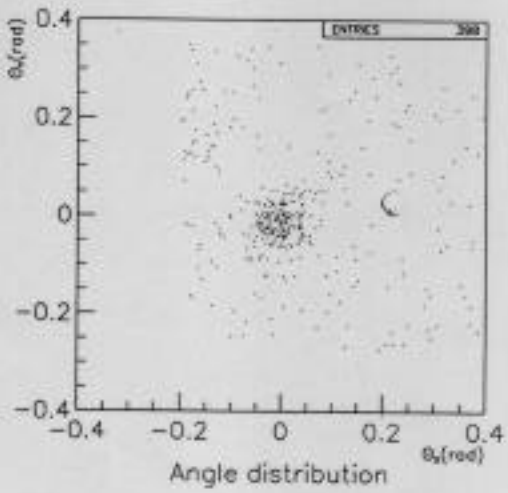
EXP. = e872
RUN = 3112
EVENT = 05200
MOD = 1
plate = 01−2
emulsion type
ECC(Fe=1000 Em=100 Bs=800 Em=100μm)

• CS. damage
• [illegible]

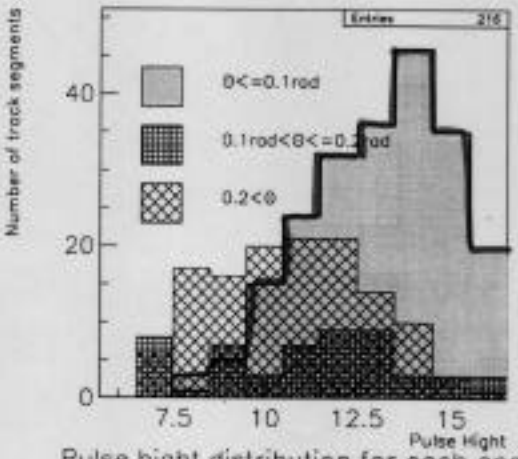
Scanned area(mm²)=(3.6,2.7)
Number of Track = 398
STAGE ID = 0
DATE =



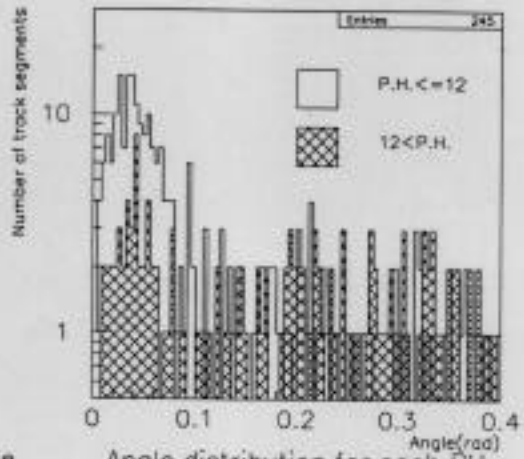
Position distribution



Angle distribution



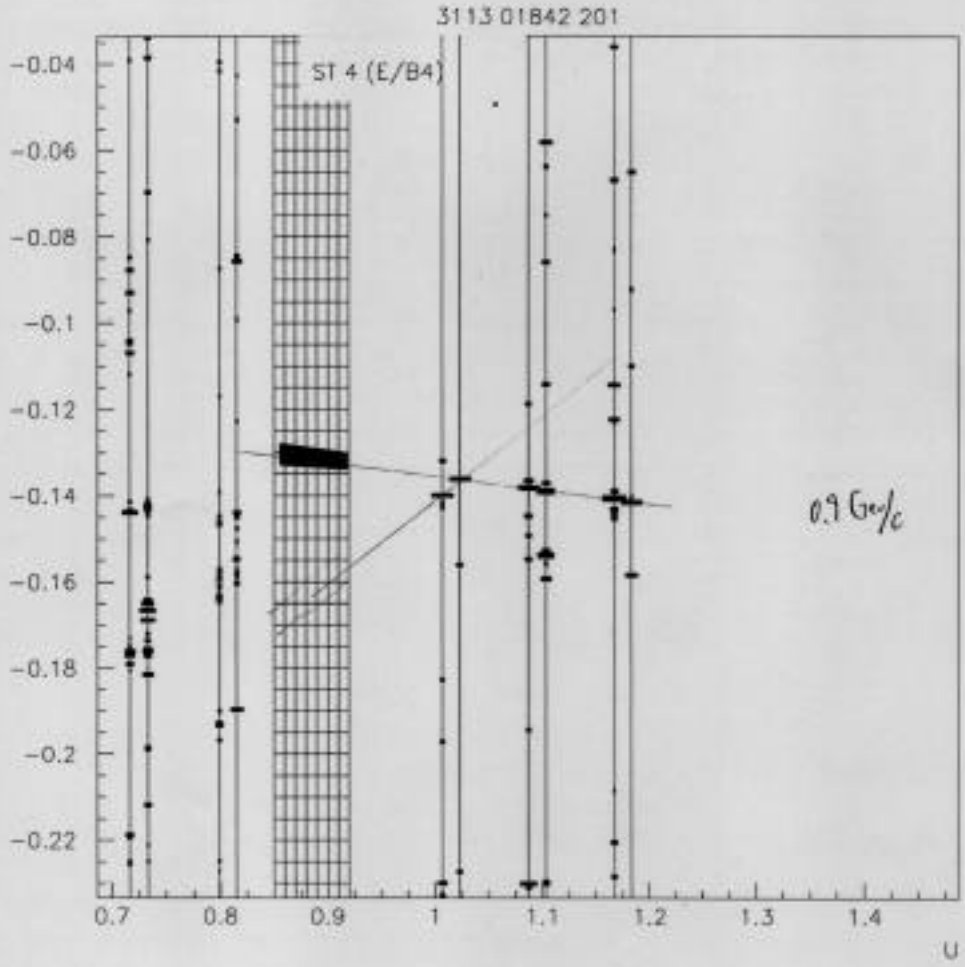
Pulse hight distribution for each angle



Angle distribution for each PH

No CS candidate.

CSで 体もない



From Now

- Now Found event is **73 events.**
- From now, decay search for these should be done.

[About location]

- Number of events which has not yet processed is 38 tracks in NETSCANBACK → will be served soon
- DATA TAKING will be started.

(1st priority)	Repredicted event by NIKI.	(Good quality, but not yet Found events)
(2nd priority)	Repredicted event by Vittorio.	(NETSCAN BACK)
(3rd priority)	Out of F.D. events by Byron.	
(4th)	Light messy events by Byron	