wanta

bit no.	contents		
0 :	accidental	coincidence I	LA1
7	11	" I	LA8
8	coincidence Ll		
•			
15	11	L8	

The luminosity scintillator latches are stored in the CAMAC word 20 according to the following scheme:

bit no.	contents	;
0	counter	1 A
•		
7	11	8A
8	11	1 B
•		
15	11	8B

The lead glass energy sum latches are stored in the CAMAC word 21 (which is not yet foreseen in JADE note 32) according to the following scheme:

bit no.	contents
0	lead glass sum IS above threshold
1	" " 2S " "
2	" AS " "
11	" " DS " "
12	" " at -Z (SMZ) above lower threshold
13	"
14	"
15	"

4

4. to provide values for LUN, IARR(1) and IRUN where

IARR(1) - N.

■ run number (if IRUN ≤ 0 the run number is not checked) IRUN

5. CALL AVIIN(LUN, &10), once for each file to initialize the program

6. CALL AVENT(LUN, IARR, &20) to get an event. After each call, the event and the length of the event is (IARR(2)-3)/2 is stored in array ID in I 4 words.

Example:

ME 1358 EV

9999010 000000 200000 00:00:03 320024 1500000 000000 900000 800000 900 00 0 010000

FORTRAN (3) FORMAT(" READ EFROR IN AVENTATION FORMAT(" READ ERROR IN AVENT AT NEV = 1) COMMENCENCEMENTERS, ISTAT, IFLAG, NAPR COMMENCEATA/LENG, ICOI(2), ID(50CC) EQUIVALENCE (TARR(5), ID(1)) DATA LUN/9/ MEMEER NAME IF(ISTAT.EG.4) GO TO 30C IF(ISTAT.NE.1) GO TO 100 CALL AVTIN(LUN,610)
CALL AVENT(LUN,1ARR,620) INTEGER#2 IAFR(13004) 25/31/79 05013001 WRITE(6,2) NEV [ARR [1] = 1000C DATA NEV/C/ WRITE(6,1) IRUN = 5959 GC TJ 300 60 TJ 300 GO TO BC 30 20

000013

000011 000011 000014 000015

910000

\$100cc

000001 220000 00:)023

810000 020000

000017

0000027

20000 00:0025 000026

CALL YWRITE(Z, LENG, ID)
THE EVENT IS, STORED IN AFRAY ID, THE LENGTH OF THE EVENT
IS EQUAL TO (IARR(2)-3)/2 IN I*4 WCRES
GOTG 10G

CONTINUE

300

-ENG=[IARR(21-31/2

JEV=NEV+1

// DD DSW=F22YEN.JACE.L,CISF=SFR,U:11T=F1:1 // DD DSN=RC2BUT.CEFNLIS,DISF=SFR //GD.FT09FD01 ED ESM=F22YEM.NCFD10,DISF=SHR,UNIT=T4PE,VOL=SEP=F22B01, // OGB=(FECFF=F,3LKS1Z=4056,EEh=3),LAPEl=(,hL)
// DO DSN=F22VEN.A.CRCLU,CISF=SHF,V)L=SEP=F22FCB,
// DCB=(RECFN=F,DLKS1Z=4C56,DEh=3),LAPEl=(,hL),UNIT=AFF=FT09F001
//OT,FT02F001 DC ESN=F.22YEN.H.G.MC90.+DISF=(NEH,CATLG,DELETE),
// DCB=(RECFN=VES,BLKS1ZE=6240,LRECL=6231),LL11=tAPE //F22YE335 JOB '19218222',YEN,CLASS=A,MSCLEWEL=(1,1). //*'Alala Lines=(2),OFG=Ext // EXEC FCLG.PARM.LKEC=!MAP,LIST!,TIME.6(=1 EXEC NEWFAST //LKED.SYSLIB CC SMACE) EV (C)





Form (3) After calibration

Form (4) present M.C. by W. Bartel

ALGN			ALGL	
1			(7)	
0		2 *	0	
LNG			LNG	
B.descr.	≥ 100	n 2.	pointer	=
‡ 0	calibration code		11	
pointer	= 1		11	
11			11	
11			ADDR	
11	\$		DATA	
ADDR	F		ADDR	
DATA		E 0	DATA	
ADDR		, c	ADDR.	
DATA		**	DATA	
\sim \perp				

The lead glass cluster finding routine LGANAL accepts the format shown in Form. 3. But at present the Monte Carlo LG-data generated by W. Bartel has a formally decided format (Form. (4)). To keep the program development going on, LGANAL can also analyse the M.C. data with the old format. At the very beginning of LGANAL the ADC data is copied into the common /CWORK/ by a copying subroutine. At first it looks for the expected bank 'ALGN'/1. When the bank is missing it searches for the present Bartel's M.C. bank 'ALGL'/7 and copies it into /CWORK/ with necessary modifications. (There are Monte Carlo events with both 'ALGL'/7 and 'ALGN'/1 in F22YAM.JETYS130. The latter is generated by means of the 3-dimensional shower program to learn lateral spread of clusters. The original M.C. data for it is F22ELS.JETYS130.)

After cluster analysis 'ALGN'/1 is filled with the shuffled ADC data again as described in the JADE computer note 14. Notice that the ADC-values are not changed and the shuffling is made only among those ADC's from the same detector part and the gross order of data (barrel, -Z end cap, +Z end cap) is maintained. Hence, the output 'ALGN'/1 bank can be used as an input for LGANAL again.