

Olson

JADE COMPUTER NOTE 45-A

T.NOZAKI 27.03.1981

CC

NEW JET-CHAMBER CONSTANTS WHICH ARE APPLIED FOR THE DATA
TAKEN IN 1981 ARE DESCRIBED IN THIS NOTE.

CC

1) TIME PEDESTAL

WIRE DEPENDENT TIME PEDESTALS ARE GIVEN BY PULSER DATA

F22PWA.PEDEST.R6328V7

OVERALL T0 IS GIVEN BY

T0(1)=1.12 CLOCK FOR RING1
T0(2)=1.12 CLOCK FOR RING2
T0(3)=1.12 CLOCK FOR RING3

THESE VALUES ARE ESTIMATED FOR LUMINOSITY EVENTS TAKEN DURING
THE RUNS FROM 6332 TO 6517

2) TIME SLEWING CORRECTION

AMPMAX=MAX(AMPL,AMPR)

T(CORRECTED)=T(UNCORRECTED)+DT IN CLOCK

A) 0<AMPMAX<225;

DT = -1.811 + 1.112E-2*AMPMAX - 2.155E-5*AMPMAX**2

B) 225<AMPMAX<750;

DT = -0.843 + 2.340E-3*AMPMAX - 1.623E-6*AMPMAX**2

C) 750<AMPMAX;

DT = 0

THIS CHANGE OF CORRECTION IS DUE TO THE INSTALLATION
OF NEW PRE-AMPLIFIERS.

MAXIMUM DIFFERENCE BETWEEN THE OLD AND NEW CORRECTIONS
ARE ABOUT 50 MICRON.

3) DRIFT VELOCITY

RING	C (MM/CLOCK)	V(CM/MICRO SEC)	V(NEW)/V(OLD)
1	0.3724	5.032	1.0054
2	0.3773	5.010	1.0068
3	0.3827	5.041	1.0022

4) AVERAGE LORENTZ ANGLE

ALPHA = 21.3 DEGREE

LORENTZ ANGLE IS NOT CHANGED WITHIN THE ERROR OF ESTIMATION OF 1 PERCENT

5) AVERATIONS . CELL DEPENDENT LORENTZ ANGLES AND WIRE POSITIONS

THESE CORRECTIONS ARE ASSUMED TO BE THE SAME AS BEFORE BUT WE MUST MODIFY OLD CALIBRATION FILE 'F11NOZ.DELTV3.A7502' SINCE ORDERING OF NEW CAKE PIECES ARE CHANGED AS FOLLOWS.

SEGMENT NUMBER		NEW	OLD
NEW	OLD	NEW	OLD
1	5	13	13
2	4	14	14
3	1	15	15
4	2	16	16
5	3	17	17
6	24	18	18
7	7	19	19
8	8	20	20
9	9	21	21
10	10	22	22
11	11	23	--
12	12	24	--

COMPLETELY NEW ONE
COMPLETELY NEW ONE

WE DONT HAVE CORRESPONDING OLD CONSTANTS FOR SEGMENTS 23 AND 24 SINCE THEY ARE COMPLETELY NEW CAKE PIECES BUT WE TAKE CONVENTION TO BORROW THE OLD CONSTANTS FOR OLD CAKE PIECES 23 AND 24 WHICH DOES NOT CORRESPOND TO NEW 23 24 ONES.

CALIBRATION FILE MODIFIED IN THIS WAY IS GIVEN BY

' F11NOZ.DELTV3.Y81.SALL '

5) CALIBRATION CONSTANTS FOR AMPLITUDES

THEY ARE GIVEN BY THE FOLLWING PULSER DATA.

'F11HEU.PEDES1.RUN6325'

6) CALIBRATION CONSTANTS FOR WIRE RESISTANCE

THEY ARE GIVEN BY THE FOLLWING PULSER DATA

'F11NOZ.PEDEST.MOD.R6325.R6328'

THE CONSTANTS ARE OBTAINED FROM OLD CONTANTS CONTAINED IN 'F22PWA.PEDEST.R6328V' BY CORRECTING FOR THE CHANGE OF ORDERING OF SEGMENTS