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=====
LEVEL2 data
*
(R-2.00)
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LEVEL2 nt-uple structure:

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*****
* Ntuple ID = 22      Entries = 5680      LEVEL2
*****
* Var numb * Type * Packing * Range * Block * Name *
*****
* 1 * L*4 * 1 * * * EVENT * GOOD2
* 2 * I*4 * * * * * EVENT * NEV2
* 1 * U*4 * 6 * [0,50] * CPU * PKT_TYPE
* 2 * I*4 * * * * * CPU * PKT_NUM
* 3 * I*4 * * * * * CPU * OBT
* 4 * U*4 * 6 * [0,50] * CPU * WHICH_CALIB
* 1 * I*4 * * * [0,50] * TRACKS * NTRK
* 2 * U*4 * 6 * [0,50] * TRACKS * IMAGE(NTRK)
* 3 * R*4 * * * * * TRACKS * XM(6,NTRK)
* 4 * R*4 * * * * * TRACKS * YM(6,NTRK)
* 5 * R*4 * * * * * TRACKS * ZM(6,NTRK)
* 6 * R*4 * * * * * TRACKS * RESX(6,NTRK)
* 7 * R*4 * * * * * TRACKS * RESY(6,NTRK)
* 8 * R*4 * * * * * TRACKS * AL(5,NTRK)
* 9 * R*4 * * * * * TRACKS * COVAL(5,5,NTRK)
* 10 * R*4 * * * * * TRACKS * CHI2(NTRK)
* 11 * U*4 * 1 * [0,1] * TRACKS * XGOOD(6,NTRK)
* 12 * U*4 * 1 * [0,1] * TRACKS * YGOOD(6,NTRK)
* 13 * R*4 * * * * * TRACKS * XV(6,NTRK)
* 14 * R*4 * * * * * TRACKS * YV(6,NTRK)
* 15 * R*4 * * * * * TRACKS * ZV(6,NTRK)
* 16 * R*4 * * * * * TRACKS * AXV(6,NTRK)
* 17 * R*4 * * * * * TRACKS * AYV(6,NTRK)
* 18 * R*4 * * * * * TRACKS * DEDXP(6,NTRK)
* 1 * I*4 * * * * * SINGLETs * NCLSX(6)
* 2 * I*4 * * * * * SINGLETs * NCLSY(6)
*****
* Block * Entries * Unpacked * Packed * Packing Factor *
*****
* EVENT * 5680 * 8 * 5 * 1.600 *
* CPU * 5680 * 16 * 10 * 1.600 *
* TRACKS * 5680 * 22004 * Var. * Variable *
* SINGLETs * 5680 * 48 * 48 * 1.000 *
* Total * --- * 22076 * Var. * Variable *
*****
* Blocks = 4      Variables = 26      Max. Columns = 5519 *
*****

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The EVENT block stores the global event flag GOOD2 and the event counter NEV2.

The CPU block stores the event tag extracted from the physics-packet CPU-header (PKT\_TYPE, PKT\_NUM, OBT) and a variable that relates each event to the calibration parameters (WHICH\_CALIB).  
(If WHICH\_CALIB=0 (missing calibration) then GOOD2=.FALSE.)

The TRACKS block stores track information:

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NTRK      - number of identified tracks (in case the Y ambiguity is not
            solved both the track images are stored)
IMAGE(NTRK) - ID of the track image (=0 if no image)
XM(6,NTRK) - measured coordinates associated to the track
YM(6,NTRK) - '
ZM(6,NTRK) - '

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RESX(6,NTRK) - spatial resolution associated to each coordinate
RESY(6,NTRK) - '
AL(5,NTRK)   - TRACK PARAMETERS: X0,Y0,sin(THETA0),PHI0,DEFLECTION
COVAL(5,5,NTRK) - Variance/covariance matrix of parameters
CHI2(NTRK)   - reduced chi^2 of the track
XGOOD(6,NTRK) - flag indicating if a plane was included in the track fitting
YGOOD(6,NTRK) - '
XV(6,NTRK)  - calculated coordinates
YV(6,NTRK)  - '
ZV(6,NTRK)  - '
AXV(6,NTRK) - calculated angles
AYV(6,NTRK) - '
DEDXP(6,NTRK) - average energy release

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The SINGLETs block stores information about those clusters not associated with any track:

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NCLSX(6)   - number of singlets in each plane
NCLSY(6)   - '

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