3021-24125

Period 2 CS 5
ECC3
2 October 1998

The candidate track (1) reported to have a 14mr kink, 6 plates downstream of the vertex. There are, in fact, two kinks at plate 12 (I measure 10mr) and at plate 4 (I measure 11mr). The track is weak in SFT, 16 hits with only 9 found by tracking software. Track (1) has a plate-to-plate scattering which is not inconsistent with low momentum.

The visible energy is low, about 15 GeV. There are no well-linked tracks from SFT to DC. Only one track, connected to track (2) is probable. An e^+e^- pair showers in E/B4 and clearly is connected with a 5 GeV cluster in the calorimeter. There are no muons identified.

Conclusions

The because the track does not reach the DC and is very poor in the SFT, it is not likely to have momentum of 1 GeV/c or greater. Therefore an *assignment* of p_d = 1 GeV/c implies a very small p_T < 11 MeV.

Non-candidate

Plots and Tables

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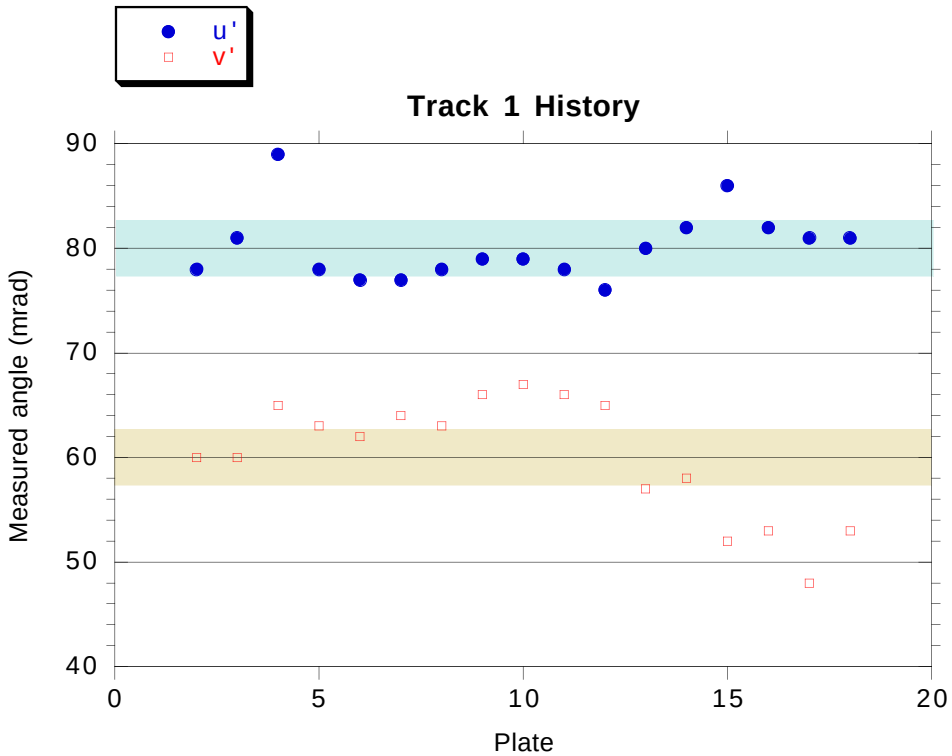
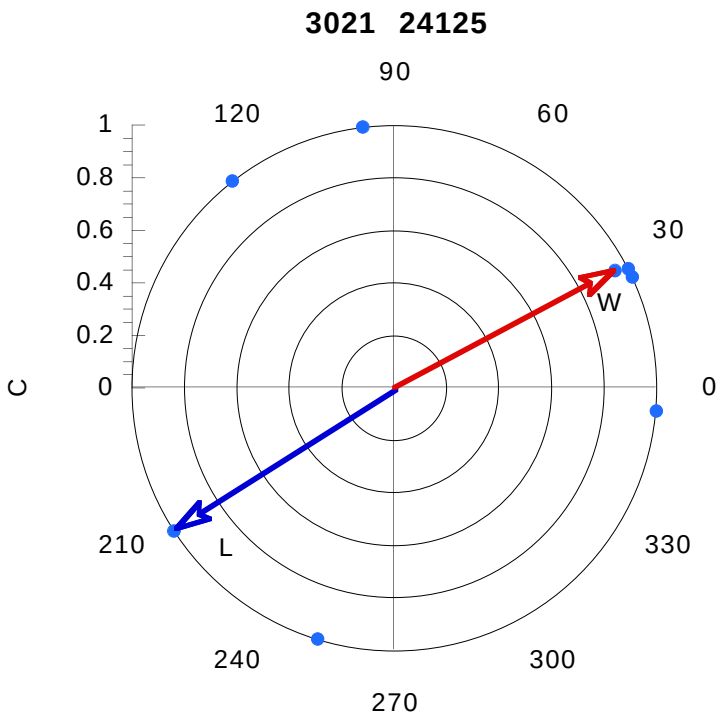
Parameter	Symbol	Value	δ (Value)	Probability τ / bkg
1 Polar angle	$\Delta\phi$	3.06		0.5
2 Lepton angle	θ_{lep}	97		0.09 /0.11
3 Decay length	L_{dec}	6.0	0.5	0.10
4 Daughter momentum	p_d	1.0	1.0	0.1 /0.3
5 Daughter angle wrt lepton	θ_d	11		0.5 /0.5
6 Total Calorimter energy	E_{cal}	9.3		0.5
7 Charged tracks DC3*x*	N_{79}	2	1	0.5
8 Daughter p_T	p_T	11		<0.01 /0.4
9 Daughter particle	T_d	NA		
10 Emulsion Module	M	3		
11 Visible Energy	E_{vis}	14.0	3.0	

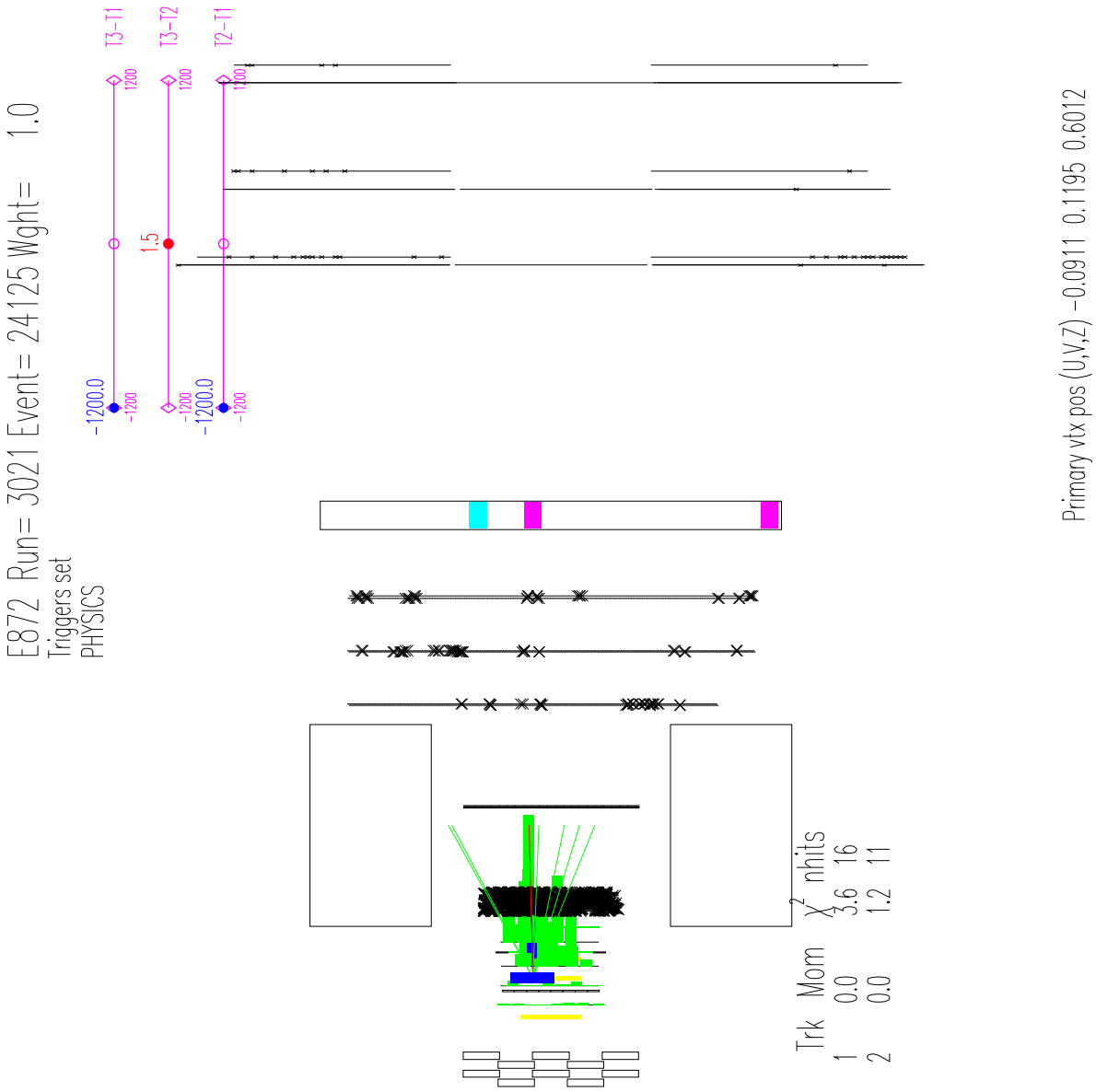
Event Parameters



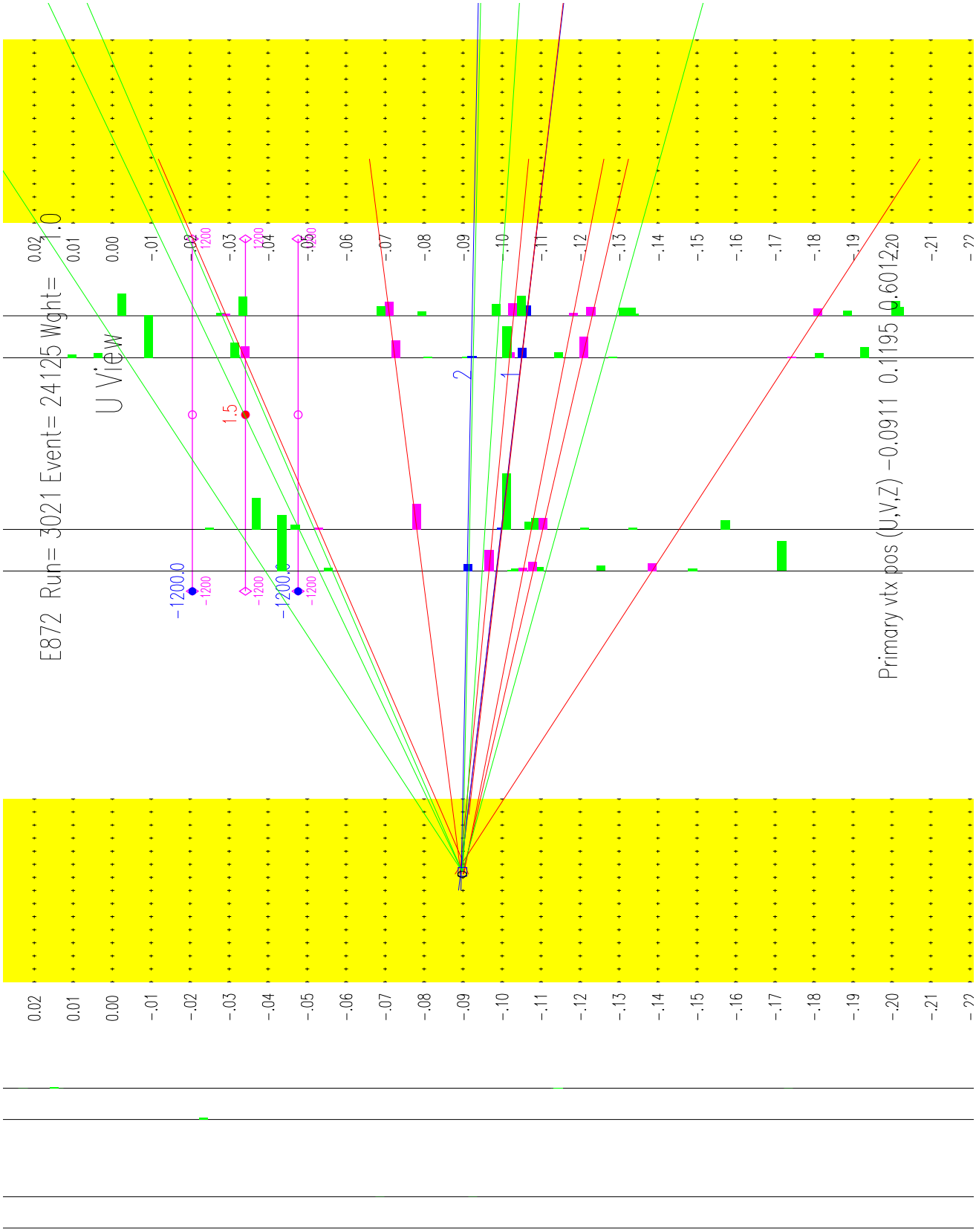


Track History

Polar angle


E872 Run= 3021 Event= 24125 Wght= 1.0
Triggers set
PHYSICS
T3-T1
T3-T2
T2-T1
1200
-1200
1.5
Primary vtx pos (U,V,Z) -0.0911 0.1195 0.6012
Trk Mom χ² nhits
1 0.0 3.6 16
2 0.0 1.2 11

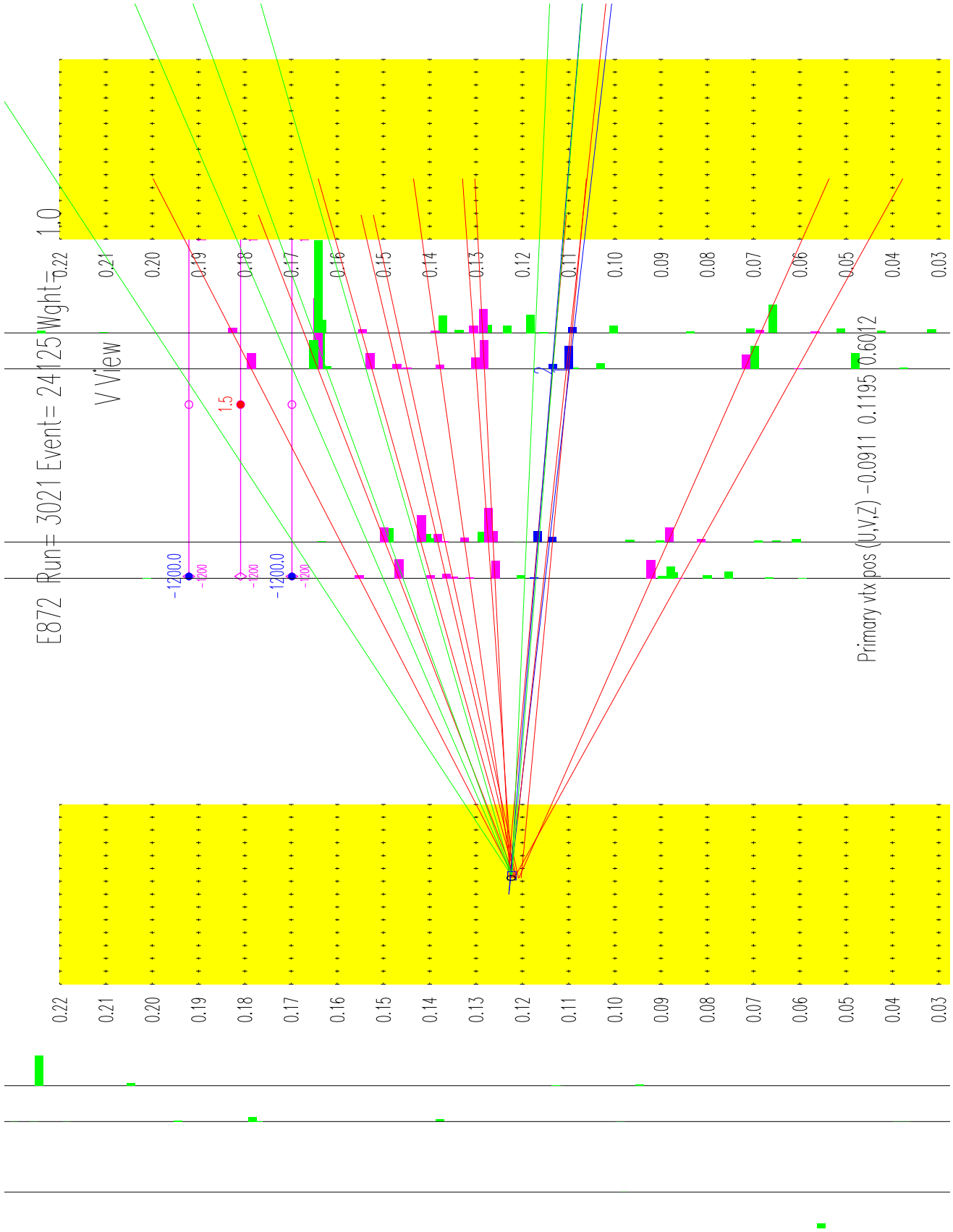
Plan view



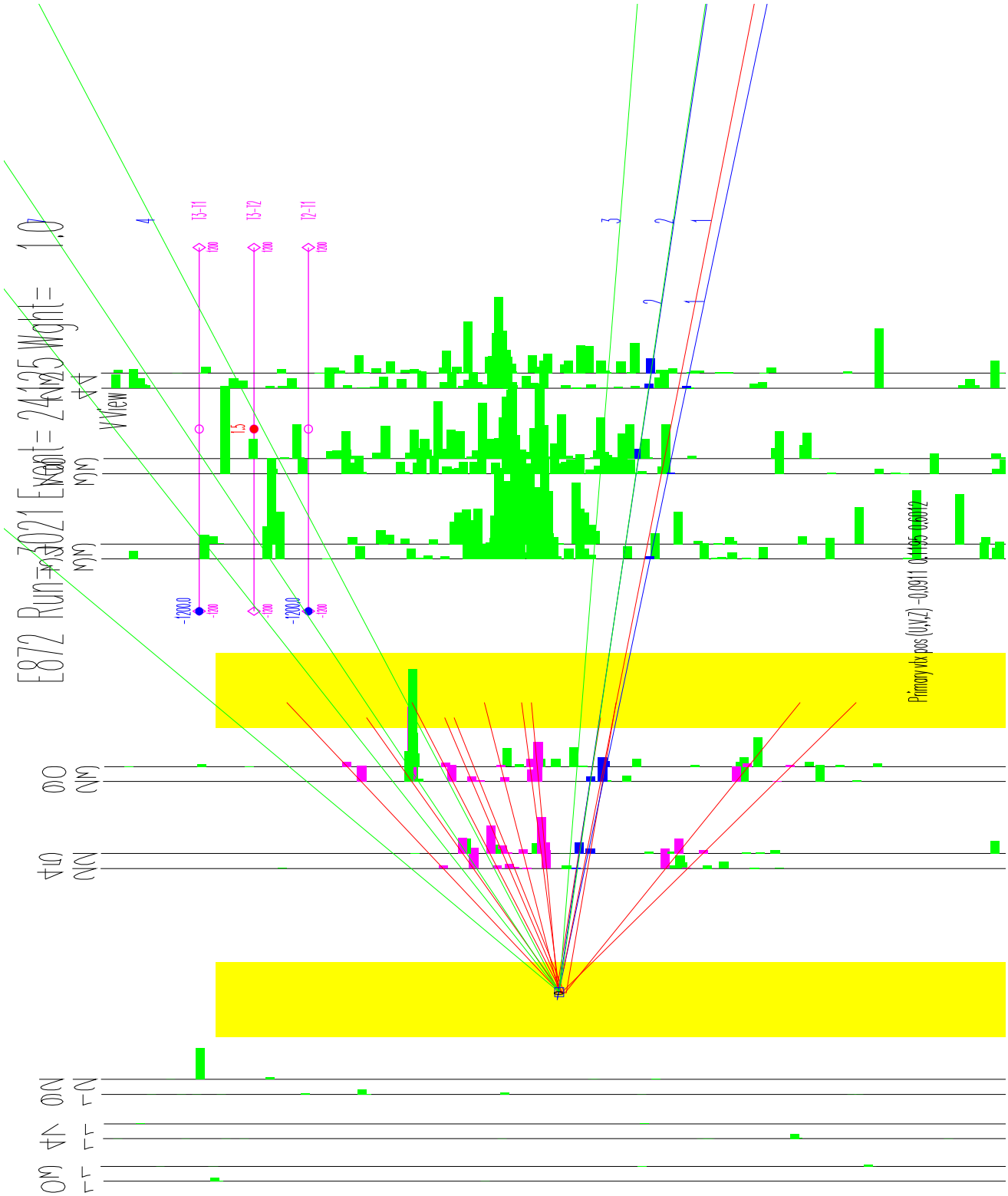
SFT *u*-view near vertex

E872 Run= 3021 Event= 24125 Wght= 1.0
UView
T3-T1
T3-T2
T2-T1
1200
-1200
-1200.0
1.5
2
6
1
5
Primary vtx pos (U,V,Z) -0.0911 0.1195 0.602

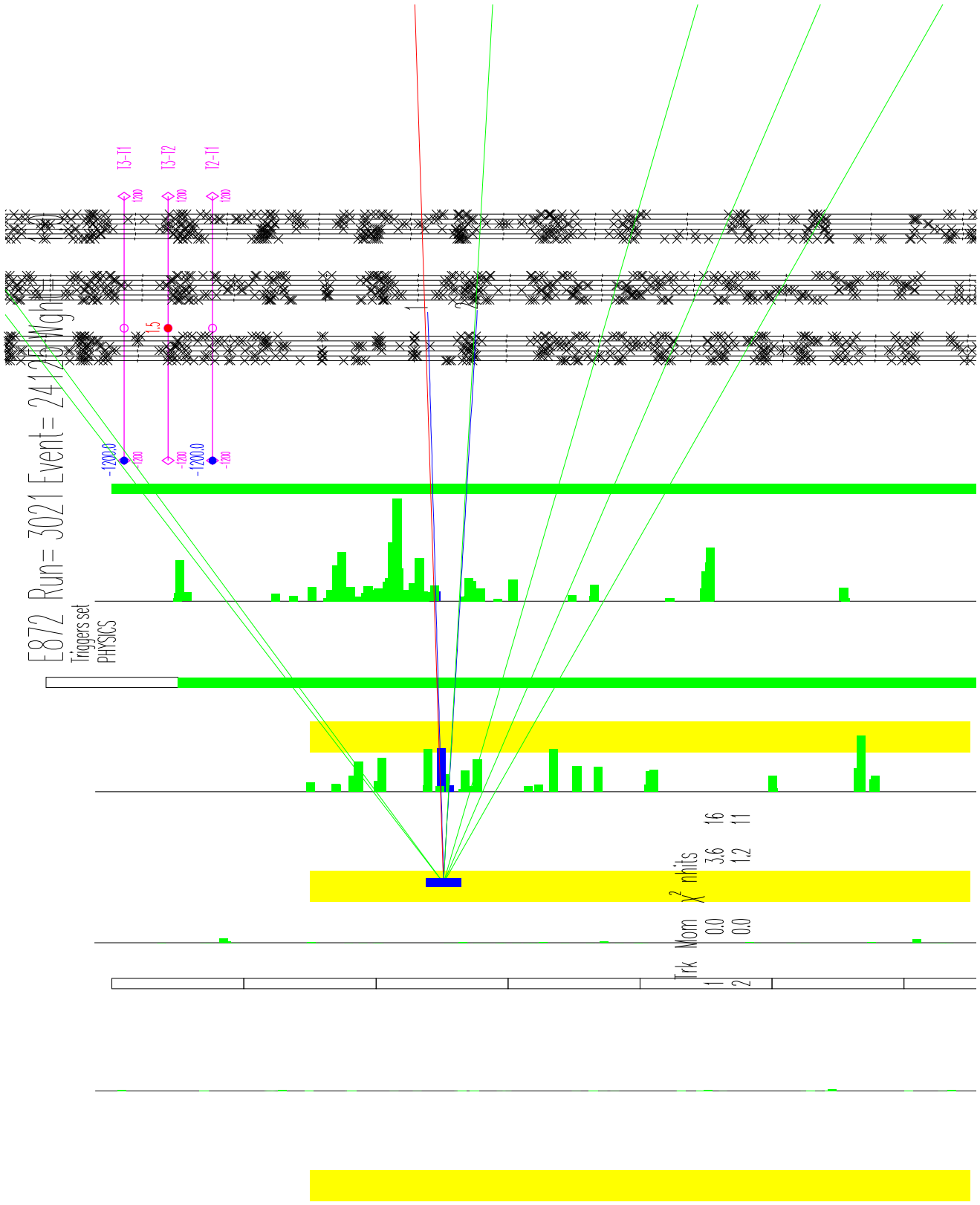
SFT *u*



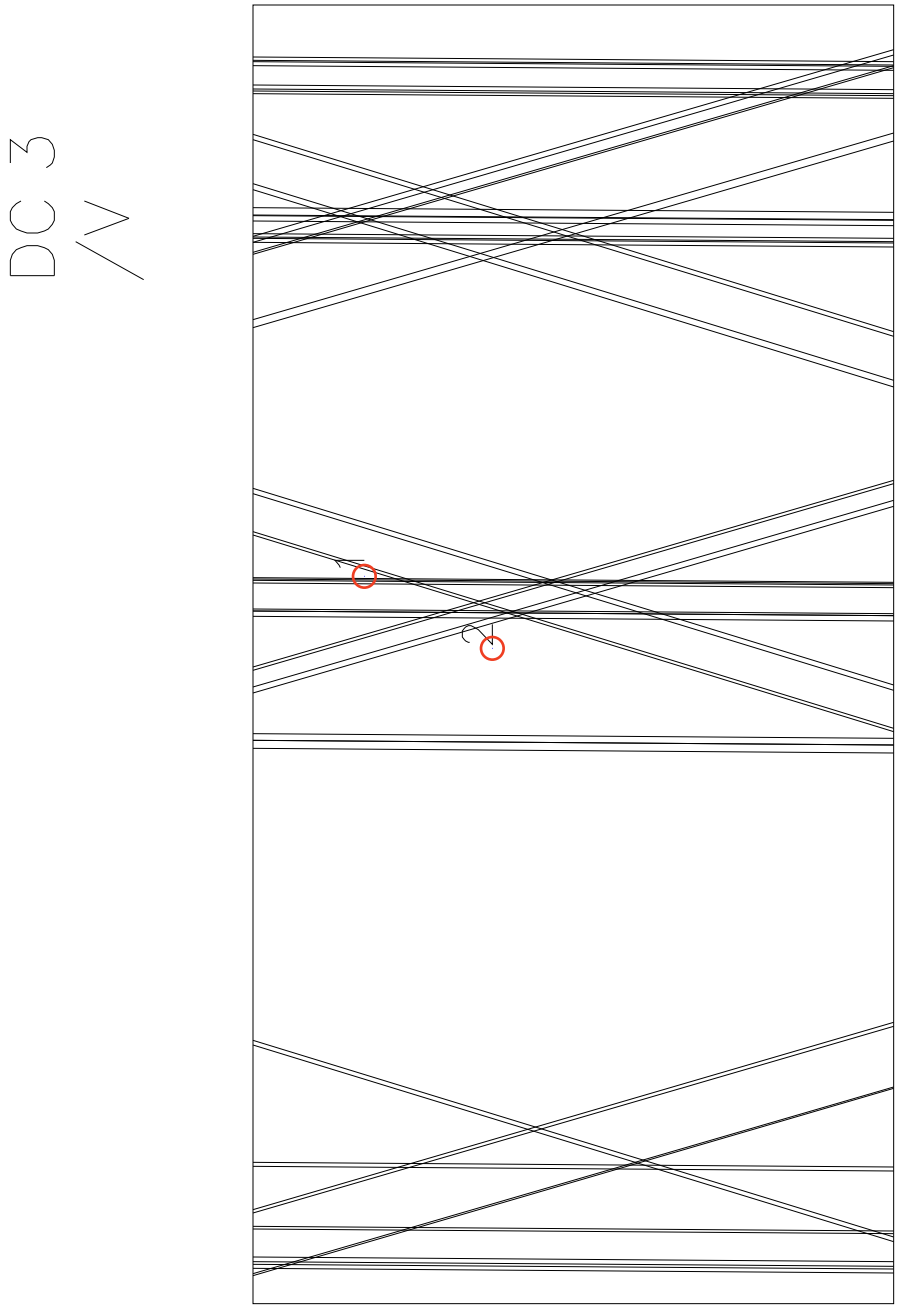
SFT *v*-view near vertex


E872 Run=13021 Event= 24125 Wght= 1.0
V View
T3-T1
T3-T2
T2-T1
Primary (x,y,z) -0.0911 0.1195 0.6012

SFT *v*-view

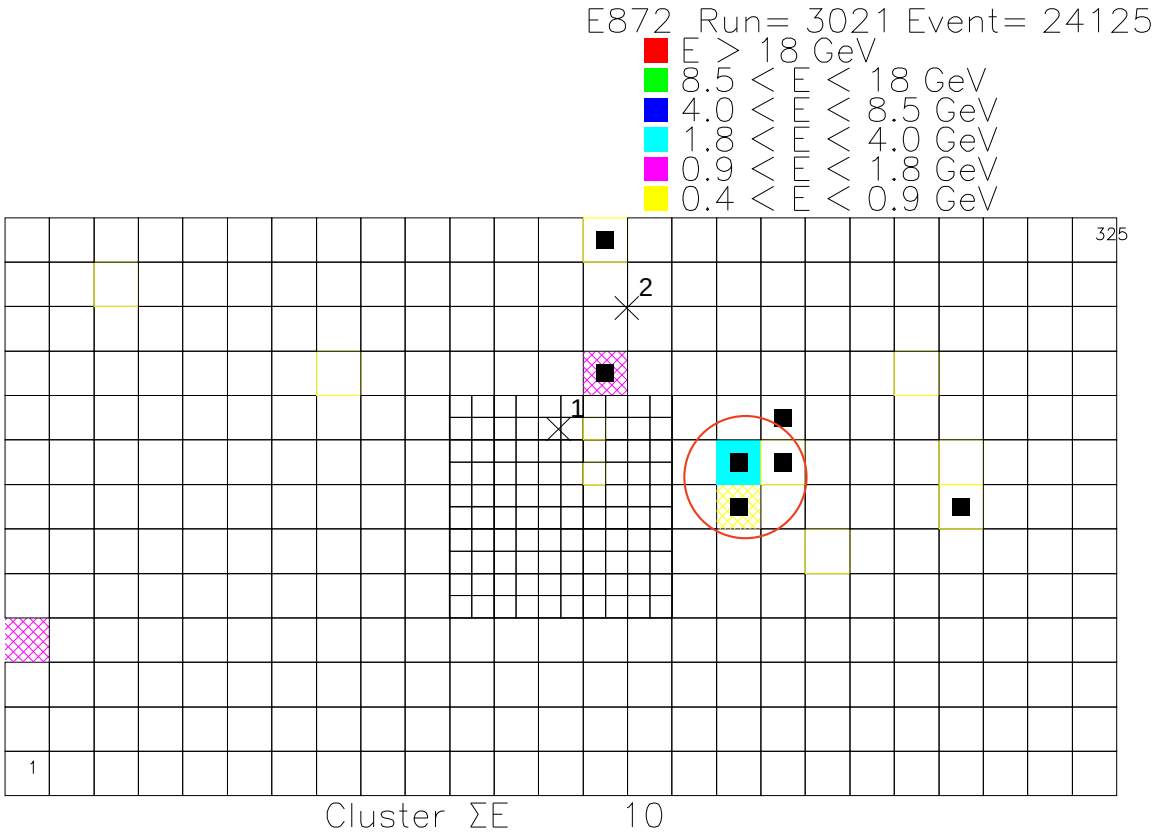

E872 Run= 3021 Event= 2412 Wgh=
Triggers set
PHYSICS
T3-T1
T3-T2
T2-T1
1200
-1200
-1200.0
1.5
Trk Mom χ² nhits
1 0.0 3.6 16
2 0.0 1.2 11

SFT *x*-view



DC 3

The extrapolated tracks are from upstream data only.



Calorimeter

The extrapolated tracks are from ustream data only. The red circle identifies the g from the shower originating in E/B4. Cluster energy is 4.7 GeV.