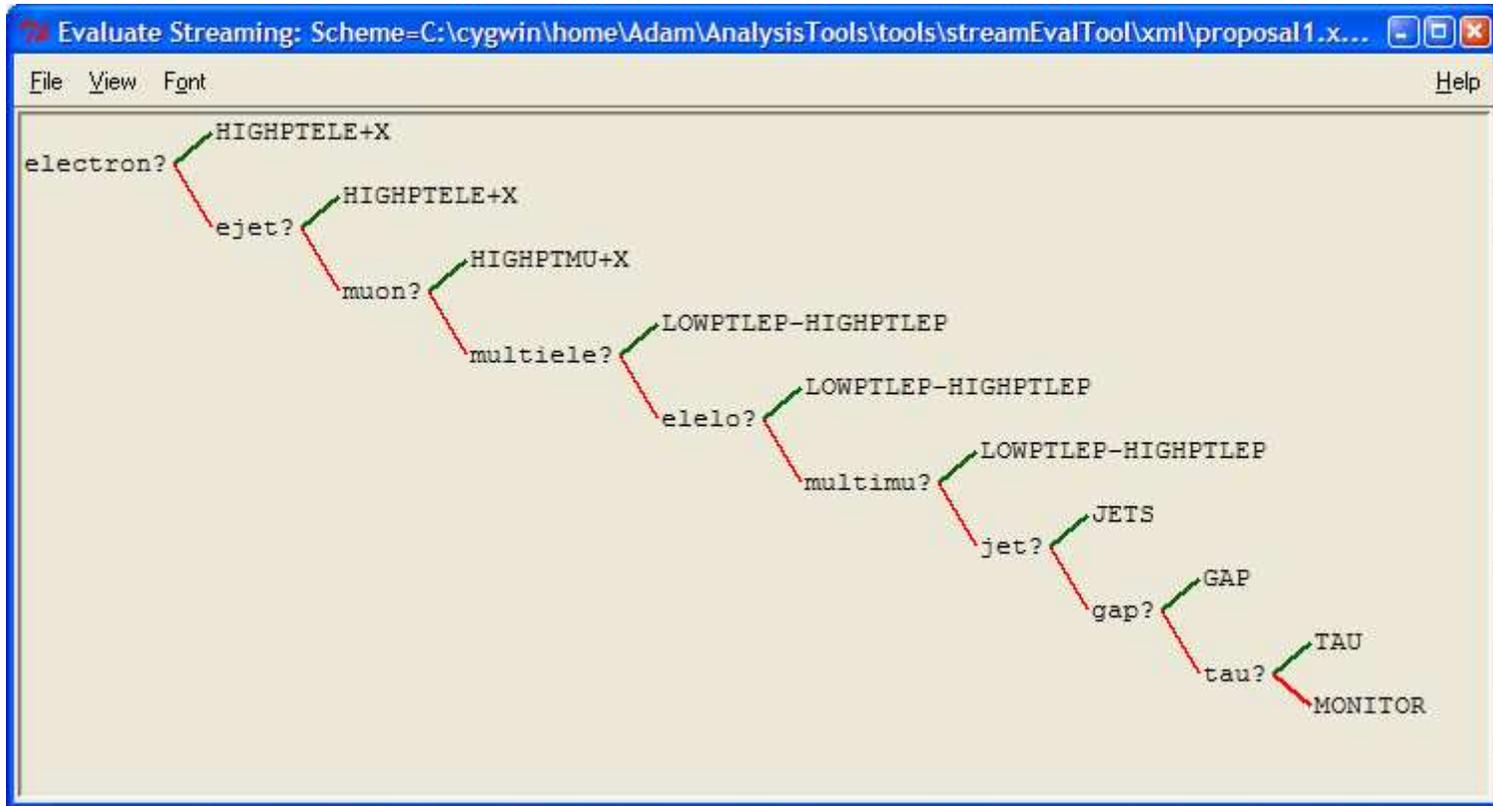


Analysis Tools Meeting 8/27/02

- ◆ Discuss Streaming Proposal
- ◆ Data integrity options

Streaming Proposal



Streaming Proposal

- ◆ Keeps high Pt leptons in only two streams
 - ❖ W/Z, Higgs, Top
- ◆ Separate low Pt lepton stream for *B* physics
- ◆ Jets only stream for QCD (and backgrounds)
- ◆ QCD-gap stream (mostly exclusive)
- ◆ Tau stream is empty

Streaming Proposal

◆ Stream Breakdowns (for global_CMT8.0)	
❖ HIGHPTELE+X	33.1%
❖ HIGHPTMU+X	33.0%
❖ LOWPTLEP	16.7%
❖ JETS	7.7%
❖ GAP	1.2%
❖ TAU	0.0%
❖ Monitor	8.3%

Streaming Proposal

◆ Advantages:

- ❖ W/Z analyses only look at two streams
- ❖ Top/Higgs high Pt leptons in only two streams
- ❖ Low Pt lepton physics have one stream
- ❖ Jets only have one stream (or ~25% of data if include low Pt leptons)
- ❖ Gap physics is exclusive and gets its own stream

◆ Disadvantages:

- ❖ All high Pt leptons in only two streams
- ❖ Not very fine grained (perhaps bad for New Phenomena)

Data Integrity (Run 162586 from 8/25)

The screenshot shows a web browser window titled 'Luminosity Operations Report - Microsoft Internet Explorer'. The address bar contains the URL: <http://www-d0online.fnal.gov/www/groups/lum/reports/test/runs/162k/162586>. The main content area displays a table with the following data:

3JT15	CJT (3, 7)	6.87e+02	6.87e+02	1.00	2.68e+02	2.57	12628
MU C L2M0 L3L0	mulptxctxx_fz	0.00e+00	0.00e+00	0.00	0.00e+00	0.00	0
MU F L2M0 L3L0	mulptxbtxx_fz	0.00e+00	0.00e+00	0.00	0.00e+00	0.00	0
mu2ptxbtxx_fz	mu2ptxbtxx_fz	0.00e+00	0.00e+00	0.00	0.00e+00	0.00	0
2MU B L2M0	mu2ptxbtxx_fz^2	0.00e+00	0.00e+00	0.00	0.00e+00	0.00	0
mu2ptxctxx_fz	mu2ptxctxx_fz	0.00e+00	0.00e+00	0.00	0.00e+00	0.00	0
2MU C L2M0	mu2ptxctxx_fz^2	0.00e+00	0.00e+00	0.00	0.00e+00	0.00	0
MU W L2M0	mulptxwtxx_fz	0.00e+00	0.00e+00	0.00	0.00e+00	0.00	0
MU W L2M0 L3L0	mulptxwtxx_fz	0.00e+00	0.00e+00	0.00	0.00e+00	0.00	0
MU W L2M5 TRK10	mulptxwtxx_fz^2	1.85e+04	1.09e+03	17.06	2.06e+01	52.76	194
MU W L2M0 TRK3	mulptxwtxx_fz^3	1.85e+04	2.71e+03	6.84	1.15e+03	2.36	15450
MU W EM10	mulptxwtxx_CEM(1, 5)	2.22e+02	2.22e+02	1.00	3.28e+01	6.76	442
MU W L2M0 2TRK3	mulptxwtxx_fz^4	1.86e+04	2.74e+03	6.80	2.84e+02	9.64	2679
mulptxatxx_fz	mulptxatxx_fz	2.78e+04	2.78e+04	1.00	2.79e+04	1.00	2530
MU A L3L0	mulptxatxx_fz	2.78e+04	2.78e+04	1.00	1.41e+04	1.97	1281
MU A L2M0 L3L0	mulptxatxx_fz^2	2.75e+04	6.97e+03	3.94	6.43e+03	1.08	8187
MU A L2M5 L3L0	mulptxatxx_fz^3	2.77e+04	1.87e+03	14.76	1.70e+03	1.10	16014
2MU A 2L2	mulptxatxx_fz^4	2.77e+04	5.70e+03	4.86	5.71e+03	1.00	76944
mu2ptxwtxx_fz	mu2ptxwtxx_fz	0.00e+00	0.00e+00	0.00	0.00e+00	0.00	0
2MU W L2M0	mu2ptxwtxx_fz^2	0.00e+00	0.00e+00	0.00	0.00e+00	0.00	0
2MU W L2M0 2TRKL	mu2ptxwtxx_fz^2	0.00e+00	0.00e+00	0.00	0.00e+00	0.00	0
mu2ptxatxx_fz	mu2ptxatxx_fz	3.16e+02	3.16e+02	1.00	3.17e+02	1.00	29860
2MU A L3L0	mu2ptxatxx_fz	3.16e+02	3.16e+02	1.00	1.70e+02	1.86	16028
2MU A L2M0	mu2ptxatxx_fz^2	3.16e+02	8.99e+01	3.51	9.02e+01	1.00	8504
2MU A L2M0 L3L0	mu2ptxatxx_fz^2	3.16e+02	8.99e+01	3.51	8.27e+01	1.09	7798

Data Integrity

- ◆ Turned off detector components
- ◆ Triggers Prescaled away

Could lead to empty streams

- ◆ Files are not produced
- ◆ Hard to tell if file should have been there