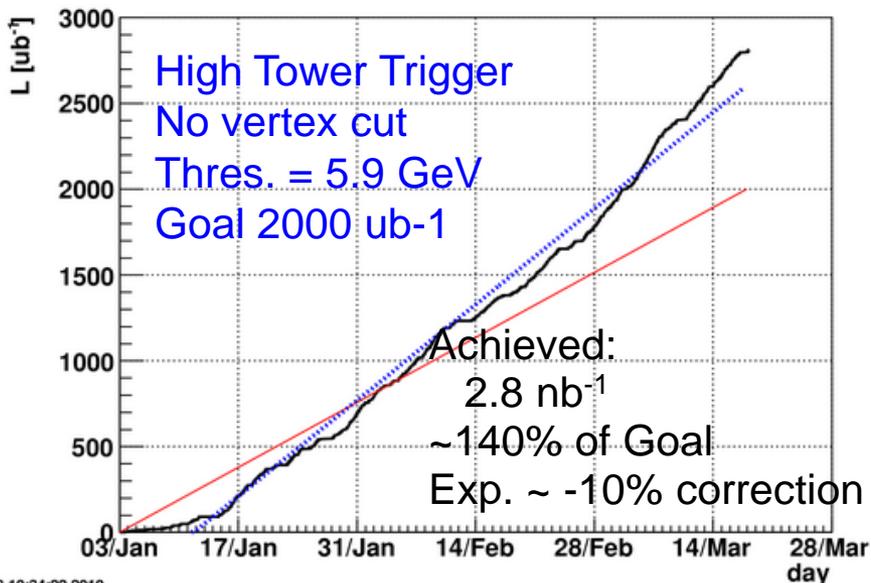# STAR Update for C-AD Time Meeting

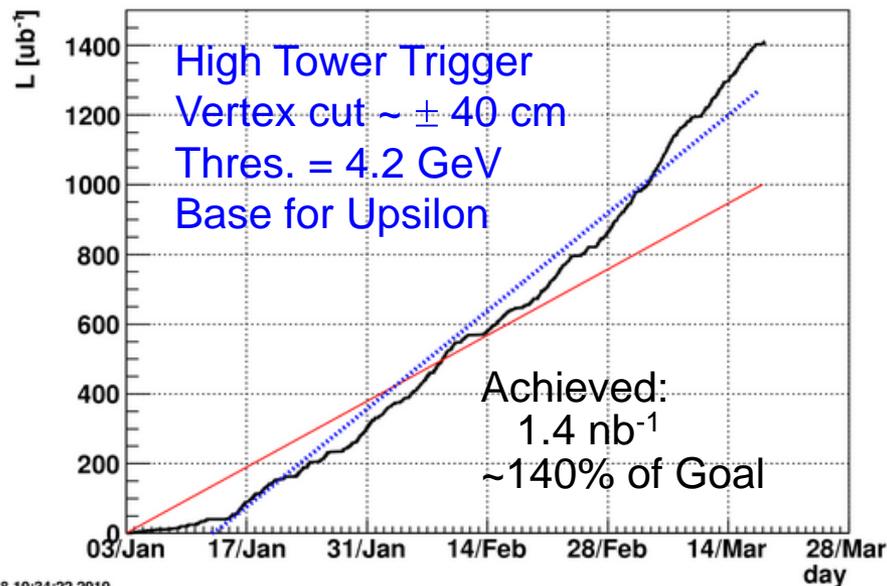*March 23, 2010.   W.B. Christie*

Final data Summary for 200 GeV
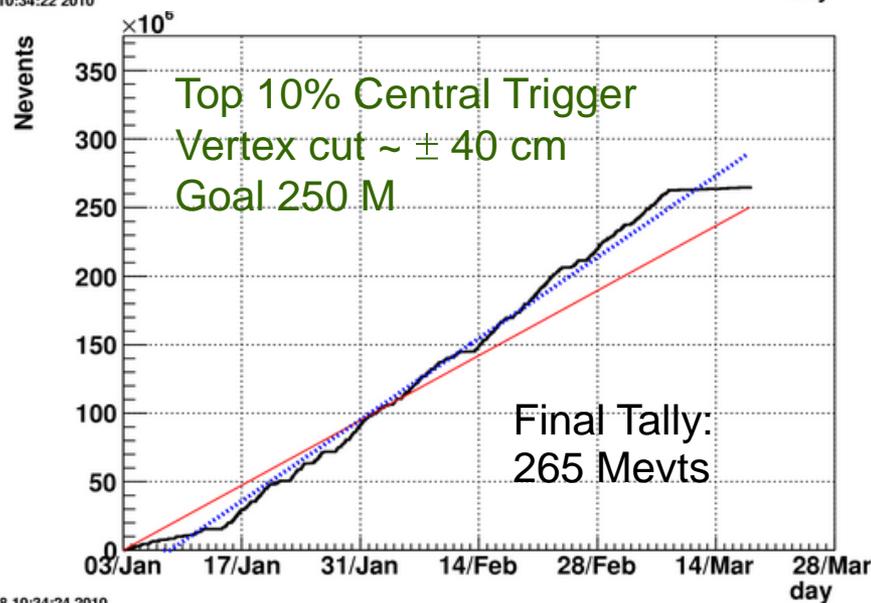
NPEHT_25

High Tower Trigger
No vertex cut
Thres. = 5.9 GeV
Goal 2000 ub-1

Achieved:
2.8 nb^{-1}
~140% of Goal
Exp. ~ -10% correction

Thu Mar 18 10:34:22 2010

E_18

High Tower Trigger
Vertex cut ~ ± 40 cm
Thres. = 4.2 GeV
Base for Upsilon

Achieved:
1.4 nb^{-1}
~140% of Goal

Thu Mar 18 10:34:22 2010

"min-bias" Trigger
Vertex cut ~ ± 40 cm
Goal 300 M

Final Tally:
354 Mevts

Thu Mar 18 10:34:23 2010

Top 10% Central Trigger
Vertex cut ~ ± 40 cm
Goal 250 M

Final Tally:
265 Mevts
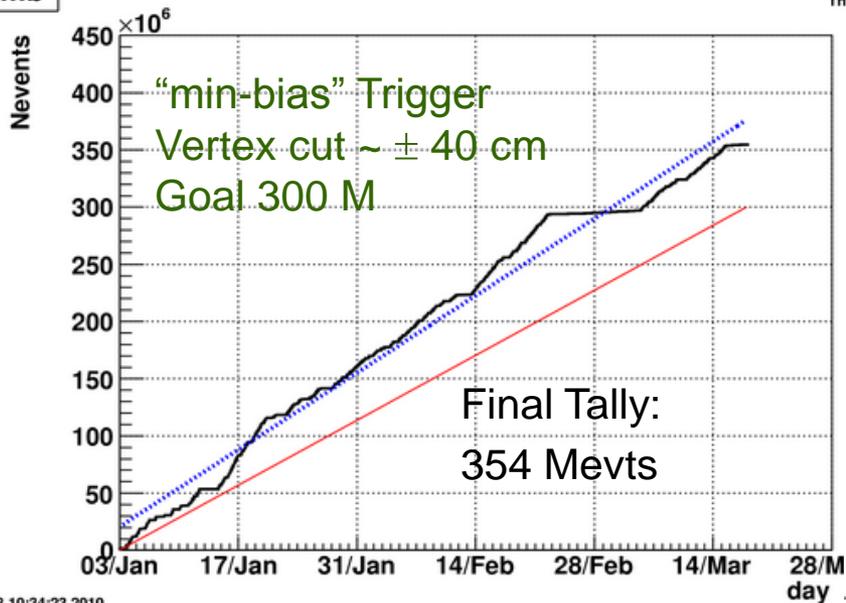
Thu Mar 18 10:34:24 2010

Current 62 GeV STAR Trigger Setup

RUNNING [to RCF] **11082039** AuAu62_production [PHYSICS]

In progress…

Started	Tue Mar 23 12:25:04 2010
Duration	0 days, 0 hr, 18 min, 38 s

Trigger	DAQ Evts	DAQ Hz	L0 Evts	L0 Hz	Sca Hz	Sca Dead	Built	Xpress	Abt	Err
upc_main	9032	9	9033	14	0	-1 %	9032	9032	0	0
zdc_monitor	5481	4	5481	4	0	-1 %	5481	5481	0	0
zerobias	926	0	926	1	0	-1 %	926	926	0	0
min-bias	280201	220	280166	248	0	-1 %	280200	0	0	1
bbc_monitor	5259	4	5258	5	0	-1 %	5259	5259	0	0
ht_11_mb	73597	59	73600	76	0	-1 %	73597	73597	0	0
HLT	378269	303	0	0	0	-1 %	2475	2475	0	1
vpd_monitor	3076	2	3075	2	0	-1 %	3076	3076	0	0
mtd	7971	6	7969	4	0	-1 %	7971	7971	0	0
upc_topo	627	0	627	0	0	-1 %	627	627	0	0
ht_15	12159	12	12155	8	0	-1 %	12159	12159	0	0
zdc_minbias_mon	479	0	479	0	0	-1 %	479	0	0	0
vpd_minbias_mon	362	0	362	0	0	-1 %	362	0	0	0
bbc_minbias_mon	469	0	469	0	0	-1 %	469	0	0	0
ALL	378269	303	378035	263	-0.1	0 %	378268	120603	0	1

Det	State	Dead	Evts	Hz	kB/s	Err
TOF	RUNNING	0 %	397920	319	2624	0
BTOW	RUNNING	0 %	397926	326	3174	0
FTP	READY	0 %	1001	0	0	0
Trigger	RUNNING	-1 %	397744	184	951	0
HLT	RUNNING	0 %	2589/397870	318	5	0
PMD	READY	0 %	11	0	0	0
ETOW	RUNNING	0 %	397926	326	668	0
FGT	DEAD	0 %	0	0	0	0
PP2PP	DEAD	0 %	0	0	0	0
BSMD	RUNNING	8 %	397777	321	2137	0
ESMD	RUNNING	0 %	397689	326	6060	0
TPX	RUNNING	0 %	397975	327	87643	1

Evb	State	Built	Err	Hz	MB/s	Written	Free GB	RCF W+S
legacy01	RUNNING	0	0	0	0	N.A.	N.A.	N.A.
legacy02	DEAD	0	0	0	0	N.A.	N.A.	N.A.
evb01	RUNNING	80571	0	73	21	18 GB	7045 [96%]	125+24
evb02	RUNNING	77390	0	51	17	17 GB	7207 [98%]	79+20
evb03	RUNNING	80620	1	64	20	18 GB	7109 [96%]	123+24
evb04	RUNNING	80683	0	60	20	18 GB	7100 [96%]	128+26
evb05	RUNNING	78422	0	78	25	17 GB	7244 [98%]	93+26
evb06	DEAD	0	0	0	0	0 GB	0 [-1%]	0+0
evb07	DEAD	0	0	0	0	0 GB	0 [-1%]	0+0
evb08	DEAD	0	0	0	0	0 GB	0 [-1%]	0+0
ALL		397686	1	326	10.	88 GB	35705 [97%]	548+120

STAR-DAQ

Menu
Monitoring
Rate Charts
Current Rates
LED Status
Slow Controls
Current RunLog
Today's ShiftLog
Det Ops Checklist
STAR Guide
Critical Support

Status

RUNNING
11082039

Auto Update
5 s Now
8

11082039

Auto Update
5 s Now
20

online 3:3

Tonko Ljubicic/BNL
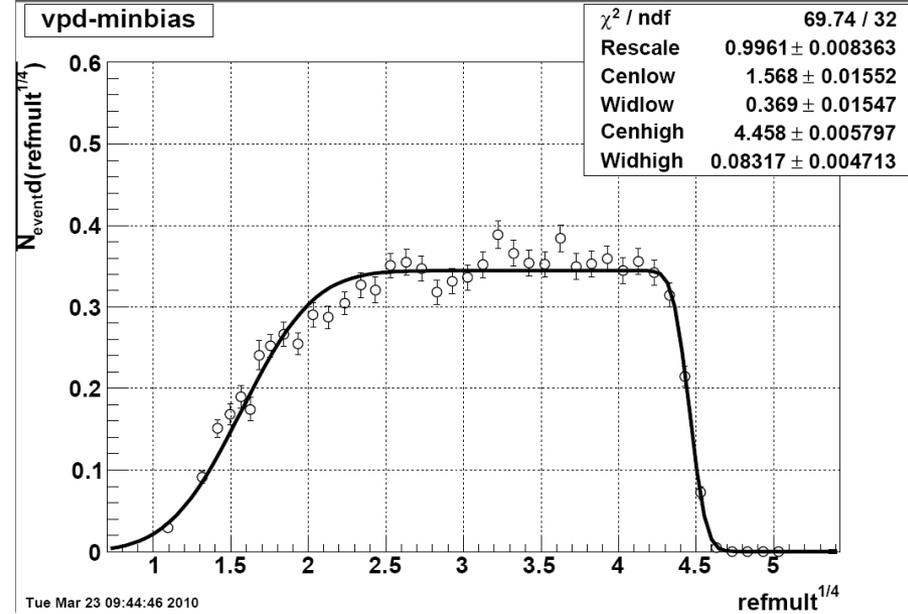
Had the bulk of the 62 GeV triggers configured and running, with out final gains/timing cuts, late Friday evening (March 19th).
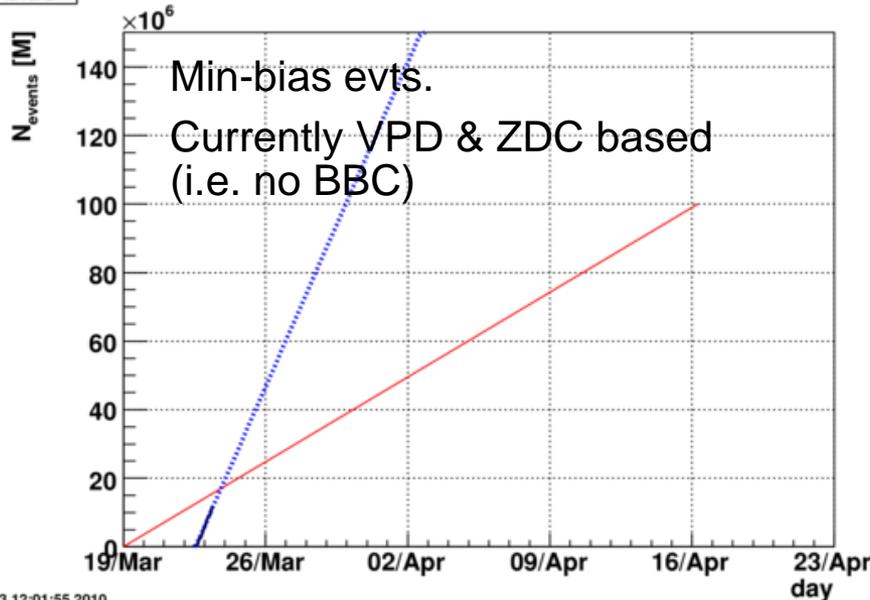
zdc-minbias

χ^2 / ndf	65.46 / 33
Rescale	0.9947 ± 0.00922
Cenlow	1.285 ± 0.01129
Widlow	0.1838 ± 0.01178
Cenhigh	4.372 ± 0.009189
Widhigh	0.116 ± 0.006518

Tue Mar 23 09:39:01 2010

vpd-minbias

χ^2 / ndf	69.74 / 32
Rescale	0.9961 ± 0.008363
Cenlow	1.568 ± 0.01552
Widlow	0.369 ± 0.01547
Cenhigh	4.458 ± 0.005797
Widhigh	0.08317 ± 0.004713
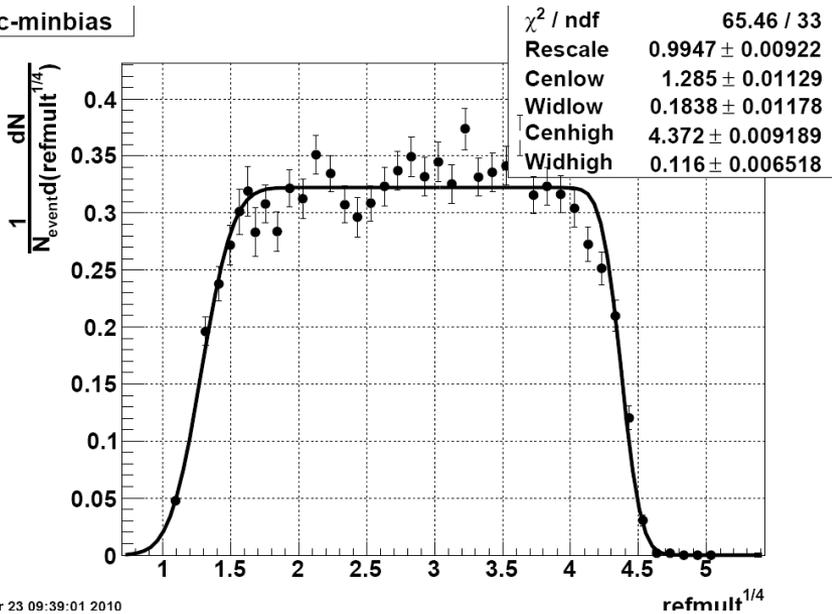
Tue Mar 23 09:44:46 2010

min-bias

Min-bias evts.

Currently VPD & ZDC based
(i.e. no BBC)

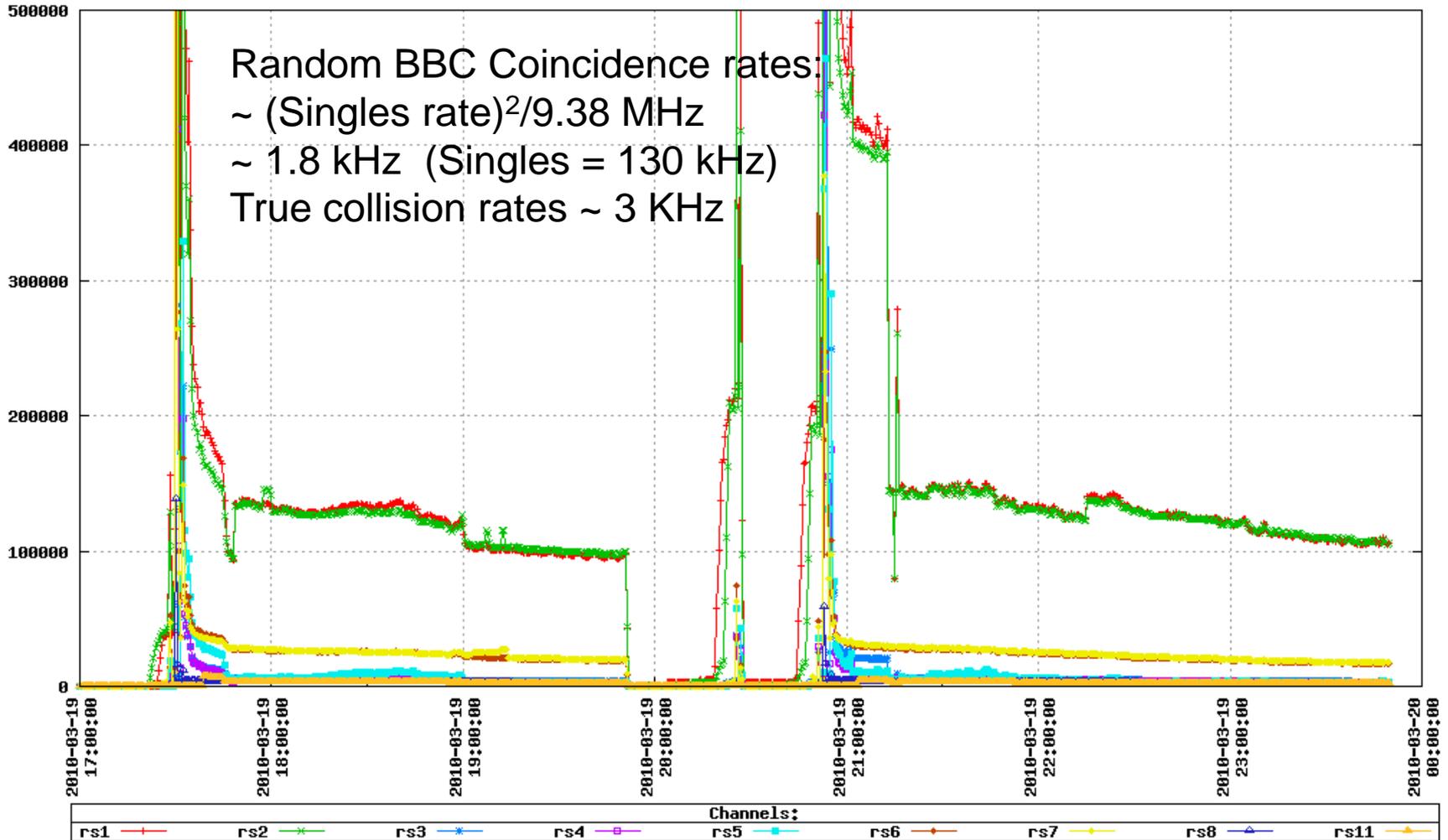Tue Mar 23 12:01:55 2010

Current status for min-bias Trigger

ZDC gains still to get further gain adjustment. This awaits Wednesday's access to switch HV card.
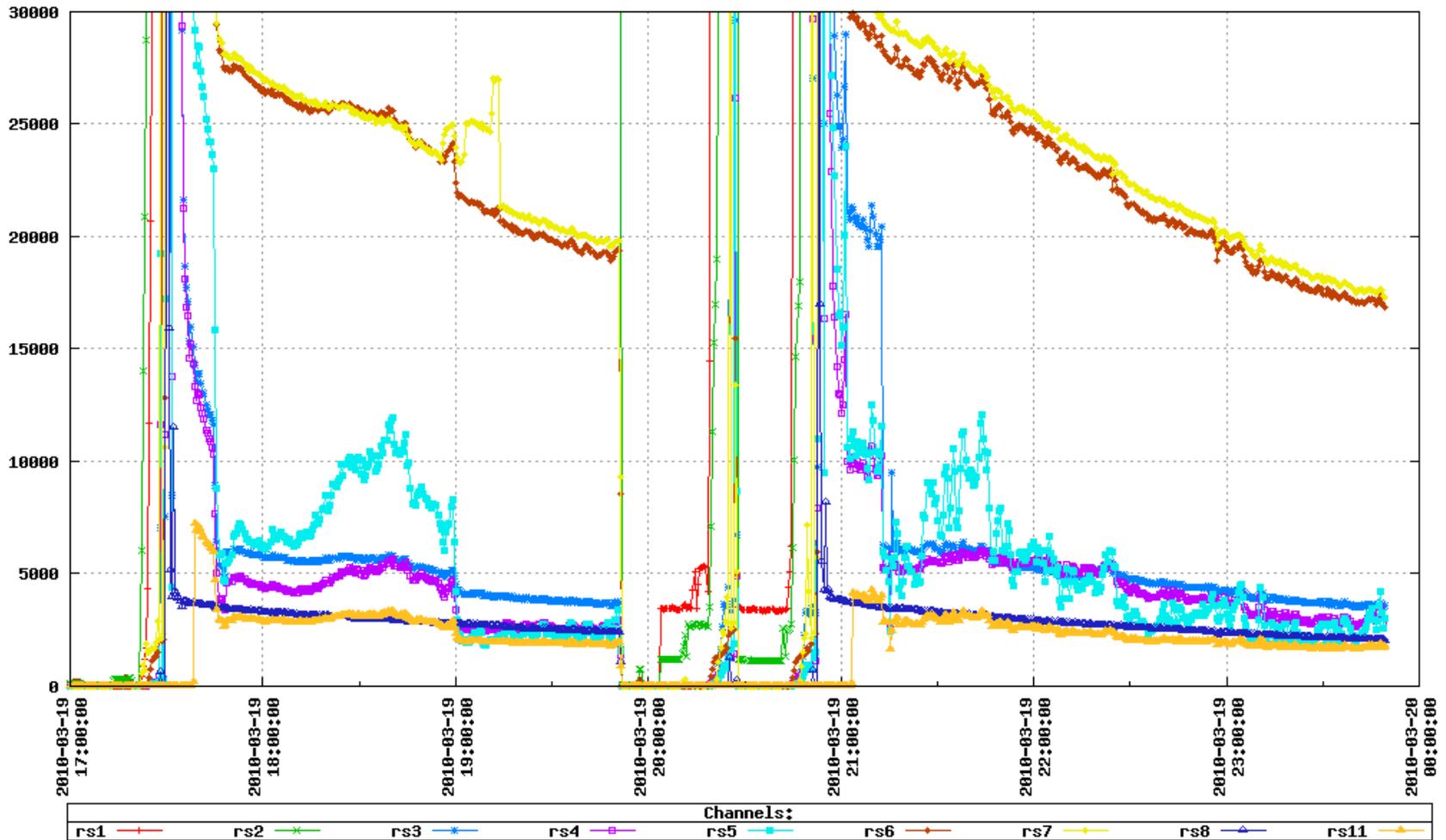
VPD is set.

BBC, with current singles rates, not usable.

Once ADC is set, we'll ~ double rate of event accumulation. Likely starting Thursday.

Various Trigger Counter rates at STAR on Friday evening, March 19th

Random BBC Coincidence rates:
~ (Singles rate)^2/9.38 MHz
~ 1.8 kHz (Singles = 130 kHz)
True collision rates ~ 3 KHz

Various Trigger Counter rates at STAR on Friday evening, March 19th

Various Trigger Counter rates at STAR on Saturday evening, March 20th

Various Trigger Counter rates at STAR today, March 23rd

Random BBC Coincidence rates:

~ (Singles rate)^2/9.38 MHz

~ 13 kHz (Singles = 350 kHz)

True collision rates ~ 3 KHz