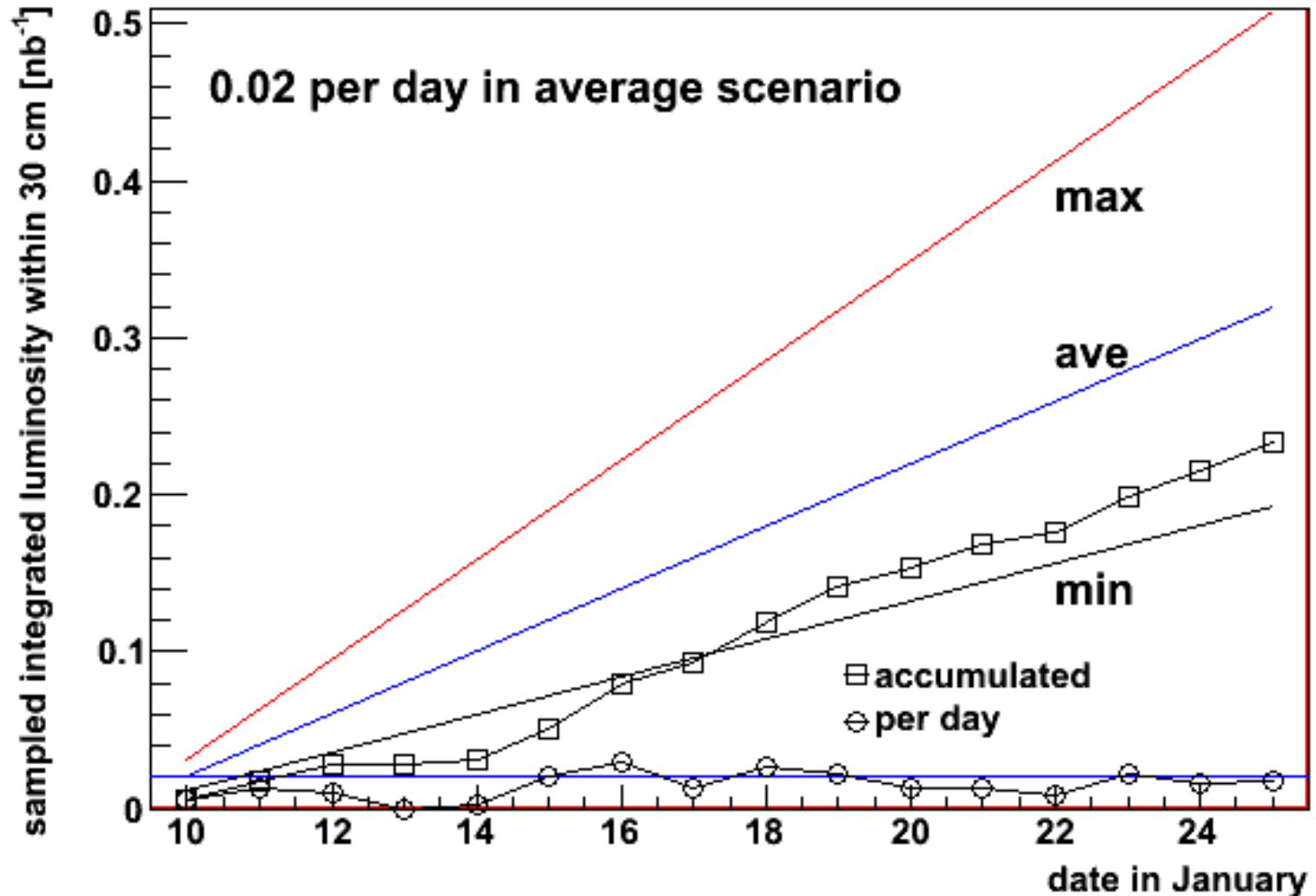


PHENIX Status

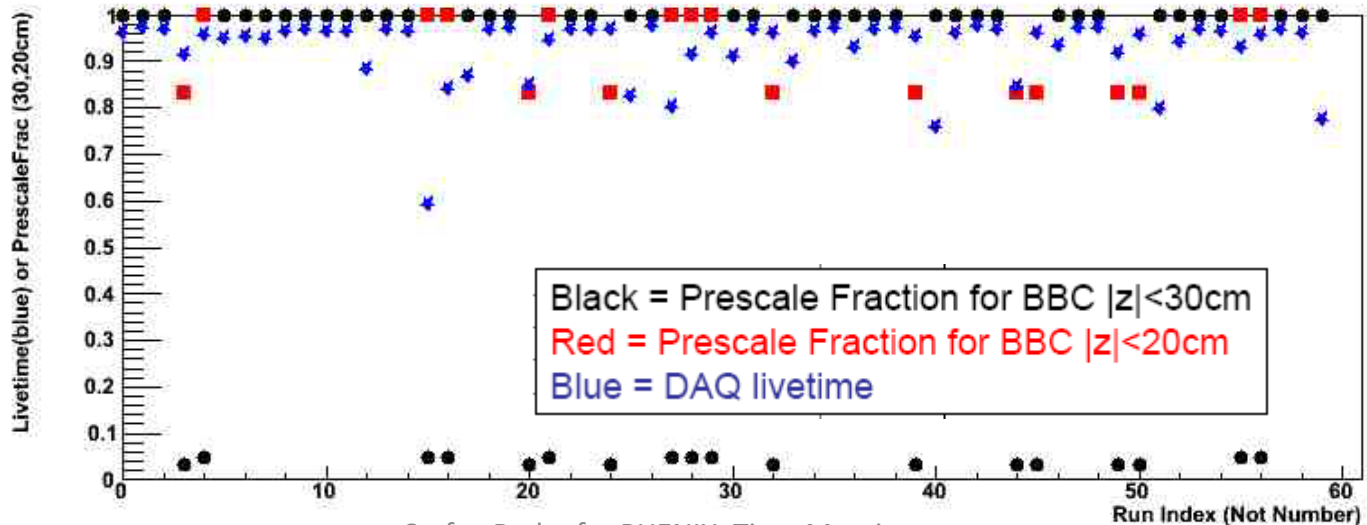
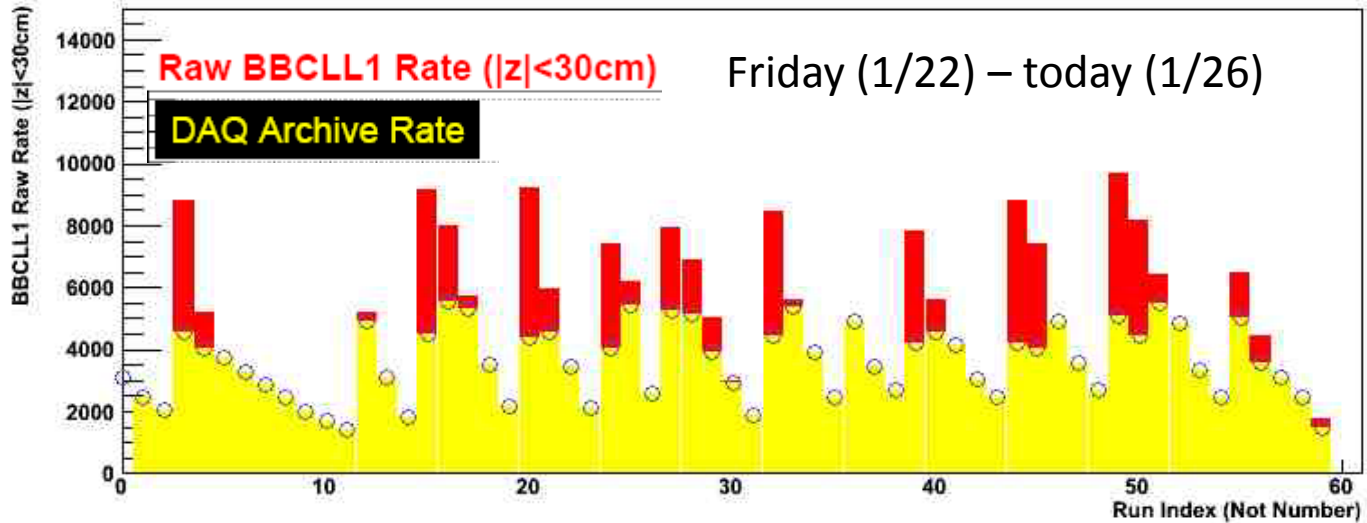
Time Meeting, 1/26/2010

Stefan Bathe

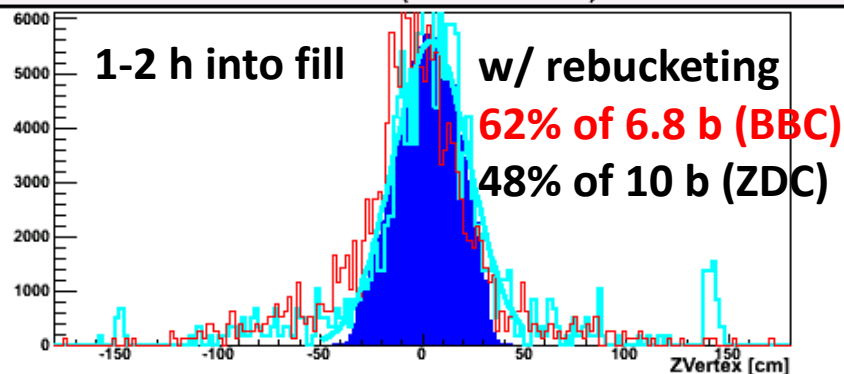
Sampled Integrated Luminosity



DAQ Performance



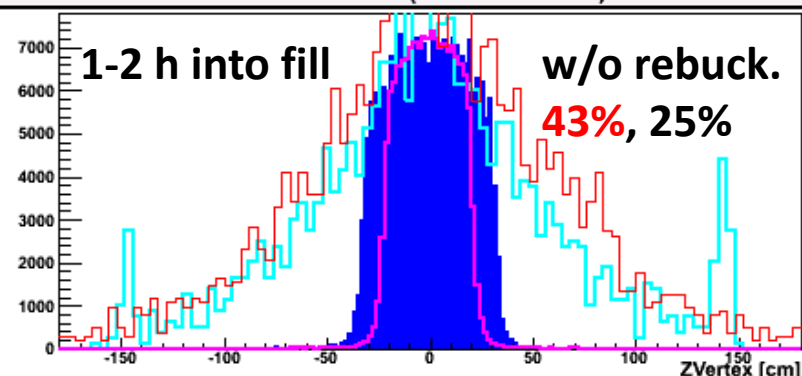
Bbc ZVertex (south<-->north)


 $Z_{\text{BBLL1 w/o Vtx}}^{\text{Fit}} = 4.3 \text{ cm } (\sigma = 18 \text{ cm}) \dots \text{ OK}$

Z [Trigger]	Zbbc [BBLL1]	Zzdc [ZDCLL1wide]	Zbbc [BBCLL1(noVtxCut)]
(Scale Fac.) #Evt.	(1) 116790	(201) 1231	(168) 1145
Vertex Mean (RMS)	2.5cm (14.9 cm)	-4.8cm (36.4 cm)	5.9cm (42.6 cm)

< Each histograms are scaled by scaled factor.>

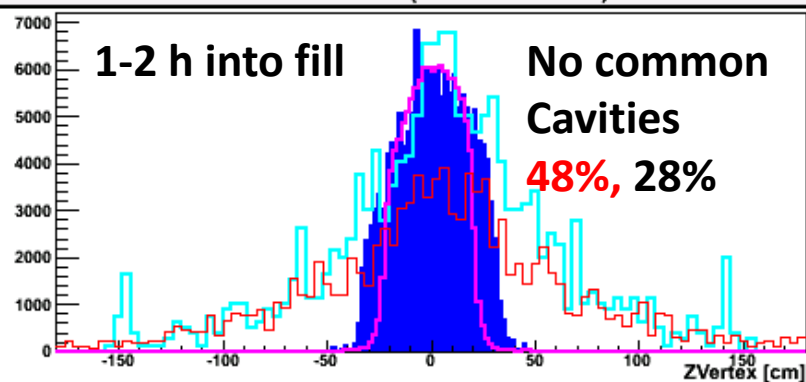
Bbc ZVertex (south<-->north)


 $Z_{\text{BBLL1 w/o Vtx}}^{\text{Fit}} = -1.3 \text{ cm } (\sigma = 40 \text{ cm}) \dots \text{ OK}$

Z [Trigger]	Zbbc [BBLL1]	Zzdc [ZDCLL1wide]	Zbbc [BBCLL1(noVtxCut)]	Zbbc [BBCLL1(narrowVtxCut)]
(Scale Fac.) #Evt.	(21) 10575	(301) 2929	(251) 1986	(1) 154785
Vertex Mean (RMS)	-0.5cm (19.3 cm)	0.9cm (61 cm)	1cm (61.5 cm)	-0.5cm (13.7 cm)

< Each histograms are scaled by scaled factor.>

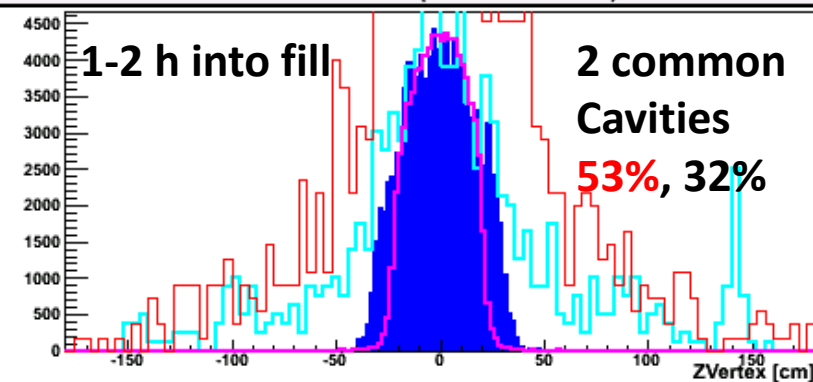
Bbc ZVertex (south<-->north)


 $Z_{\text{BBLL1 w/o Vtx}}^{\text{Fit}} = 7.3 \text{ cm } (\sigma = 35 \text{ cm}) \dots \text{ OK}$

Z [Trigger]	Zbbc [BBLL1]	Zzdc [ZDCLL1wide]	Zbbc [BBCLL1(noVtxCut)]	Zbbc [BBCLL1(narrowVtxCut)]
(Scale Fac.) #Evt.	(21) 7599	(301) 1797	(251) 1328	(1) 120044
Vertex Mean (RMS)	1cm (17.8 cm)	4.3cm (61.8 cm)	5.6cm (55.2 cm)	0.2cm (12.9 cm)

< Each histograms are scaled by scaled factor.>

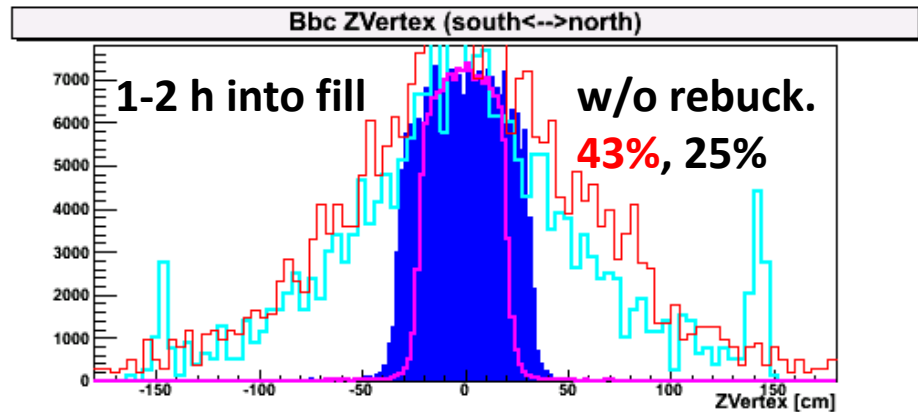
Bbc ZVertex (south<-->north)


 $Z_{\text{BBLL1 w/o Vtx}}^{\text{Fit}} = 0 \text{ cm } (\sigma = 26 \text{ cm}) \dots \text{ OK}$

Z [Trigger]	Zbbc [BBLL1]	Zzdc [ZDCLL1wide]	Zbbc [BBCLL1(noVtxCut)]	Zbbc [BBCLL1(narrowVtxCut)]
(Scale Fac.) #Evt.	(21) 5061	(301) 1061	(251) 868	(1) 83185
Vertex Mean (RMS)	-0.1cm (17 cm)	3.1cm (52.3 cm)	5.6cm (56.3 cm)	-0.2cm (12.7 cm)

< Each histograms are scaled by scaled factor.>

Used for luminosity estimate:
65%

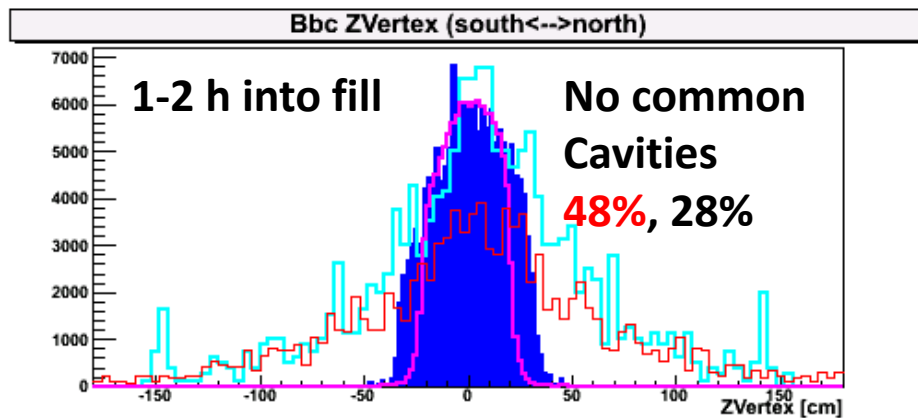


$Z_{BBLL1\ w/o\ Vtx}^{Fit} = -1.3\ \text{cm} (\sigma = 40\ \text{cm}) \dots \text{OK}$

Z [Trigger]	Zbbc [BBLL1]	Zzdc [ZDCLL1wide]	Zbbc [BBCLL1(noVtxCut)]	Zbbc [BBCLL1(narrowVtxCut)]
(Scale Fac.) #Evt. (21) 10575	(301) 2929	(251) 1986	(1) 154785	

< Each histograms are scaled by scaled factor.>

Vertex Mean (RMS) -0.5cm (19.3 cm) 0.9cm (61 cm) 1cm (61.5 cm) -0.5cm (13.7 cm)

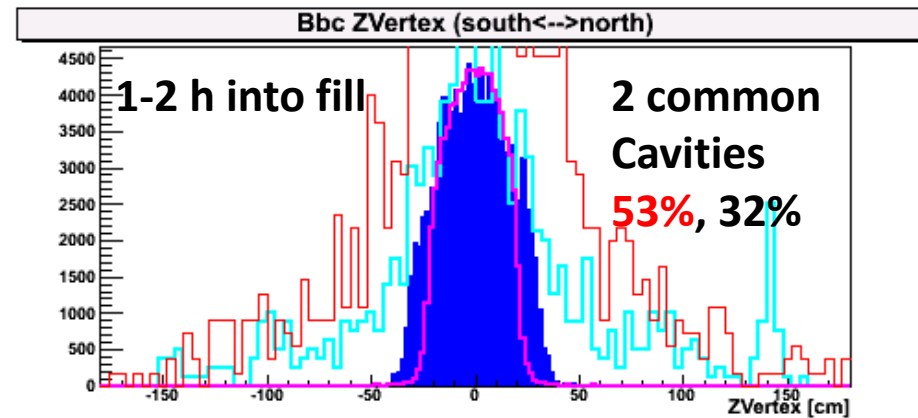


$Z_{BBLL1\ w/o\ Vtx}^{Fit} = 7.3\ \text{cm} (\sigma = 35\ \text{cm}) \dots \text{OK}$

Z [Trigger]	Zbbc [BBLL1]	Zzdc [ZDCLL1wide]	Zbbc [BBCLL1(noVtxCut)]	Zbbc [BBCLL1(narrowVtxCut)]
(Scale Fac.) #Evt. (21) 7599	(301) 1797	(251) 1328	(1) 120044	

< Each histograms are scaled by scaled factor.>

Vertex Mean (RMS) 1cm (17.8 cm) 4.3cm (61.8 cm) 5.6cm (55.2 cm) 0.2cm (12.9 cm)



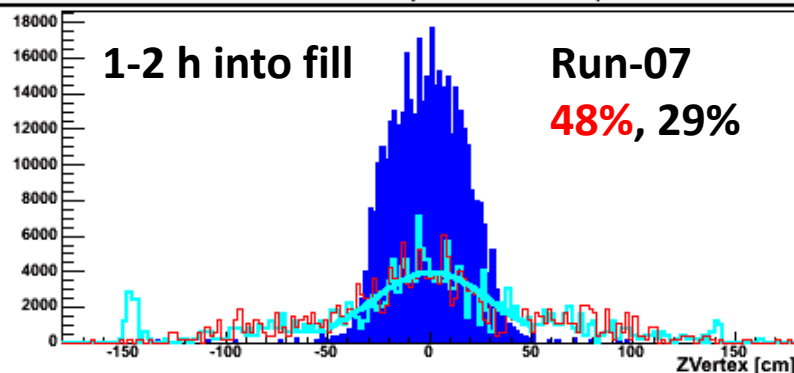
$Z_{BBLL1\ w/o\ Vtx}^{Fit} = 0\ \text{cm} (\sigma = 26\ \text{cm}) \dots \text{OK}$

Z [Trigger]	Zbbc [BBLL1]	Zzdc [ZDCLL1wide]	Zbbc [BBCLL1(noVtxCut)]	Zbbc [BBCLL1(narrowVtxCut)]
(Scale Fac.) #Evt. (21) 5061	(301) 1061	(251) 868	(1) 83185	

< Each histograms are scaled by scaled factor.>

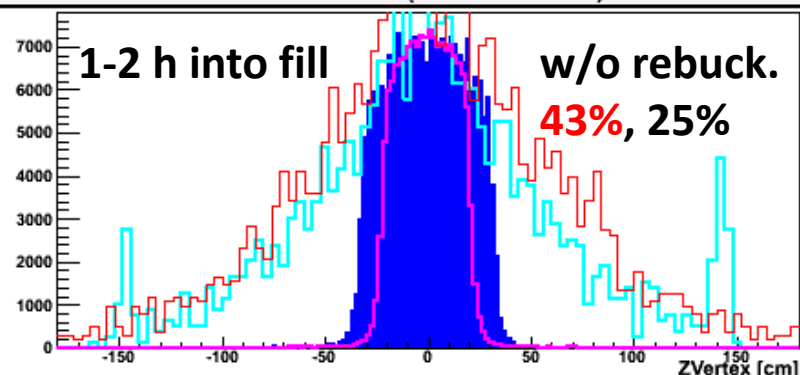
Vertex Mean (RMS) -0.1cm (17 cm) 3.1cm (52.3 cm) 5.6cm (56.3 cm) -0.2cm (12.7 cm)

Bbc ZVertex (south<-->north)


 $Z_{\text{BBLL1 w/o Vtx}}^{\text{Fit}} = 0.8 \text{ cm } (\sigma = 28 \text{ cm}) \dots \text{ OK}$

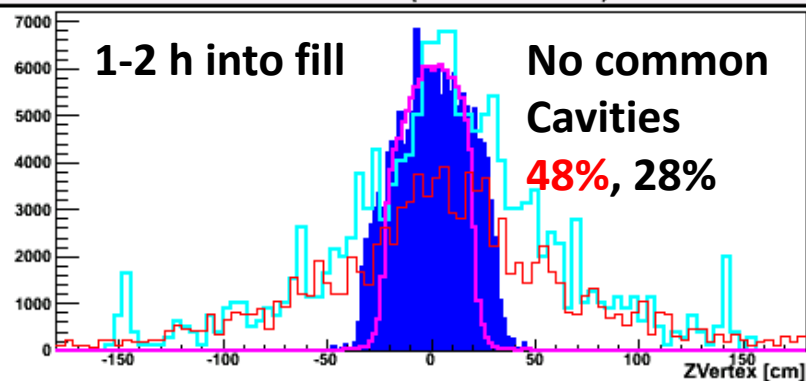
Z [Trigger]	Zbbc [BBLL1]	Zzdc [ZDCLL1wide]	Zbbc [BBCLL1(noVtxCut)]
(Scale Fac.) #Evt.	(1) 111505	(401) 958	(201) 1131
< Each histograms are scaled by scaled factor.>			
Vertex Mean (RMS)	-0.6cm (18.9 cm)	1cm (54.9 cm)	-2.3cm (59.2 cm)

Bbc ZVertex (south<-->north)


 $Z_{\text{BBLL1 w/o Vtx}}^{\text{Fit}} = -1.3 \text{ cm } (\sigma = 40 \text{ cm}) \dots \text{ OK}$

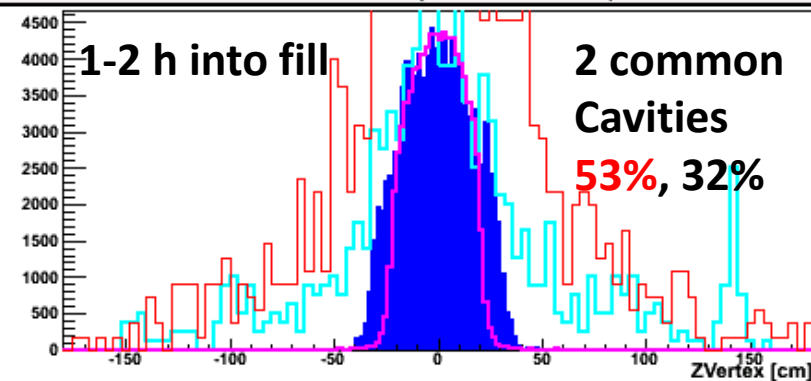
Z [Trigger]	Zbbc [BBLL1]	Zzdc [ZDCLL1wide]	Zbbc [BBCLL1(narrowVtxCut)]
(Scale Fac.) #Evt.	(21) 10575	(301) 2929	(251) 1986
< Each histograms are scaled by scaled factor.>			
Vertex Mean (RMS)	-0.5cm (19.3 cm)	0.9cm (61 cm)	1cm (61.5 cm)
			-0.5cm (13.7 cm)

Bbc ZVertex (south<-->north)


 $Z_{\text{BBLL1 w/o Vtx}}^{\text{Fit}} = 7.3 \text{ cm } (\sigma = 35 \text{ cm}) \dots \text{ OK}$

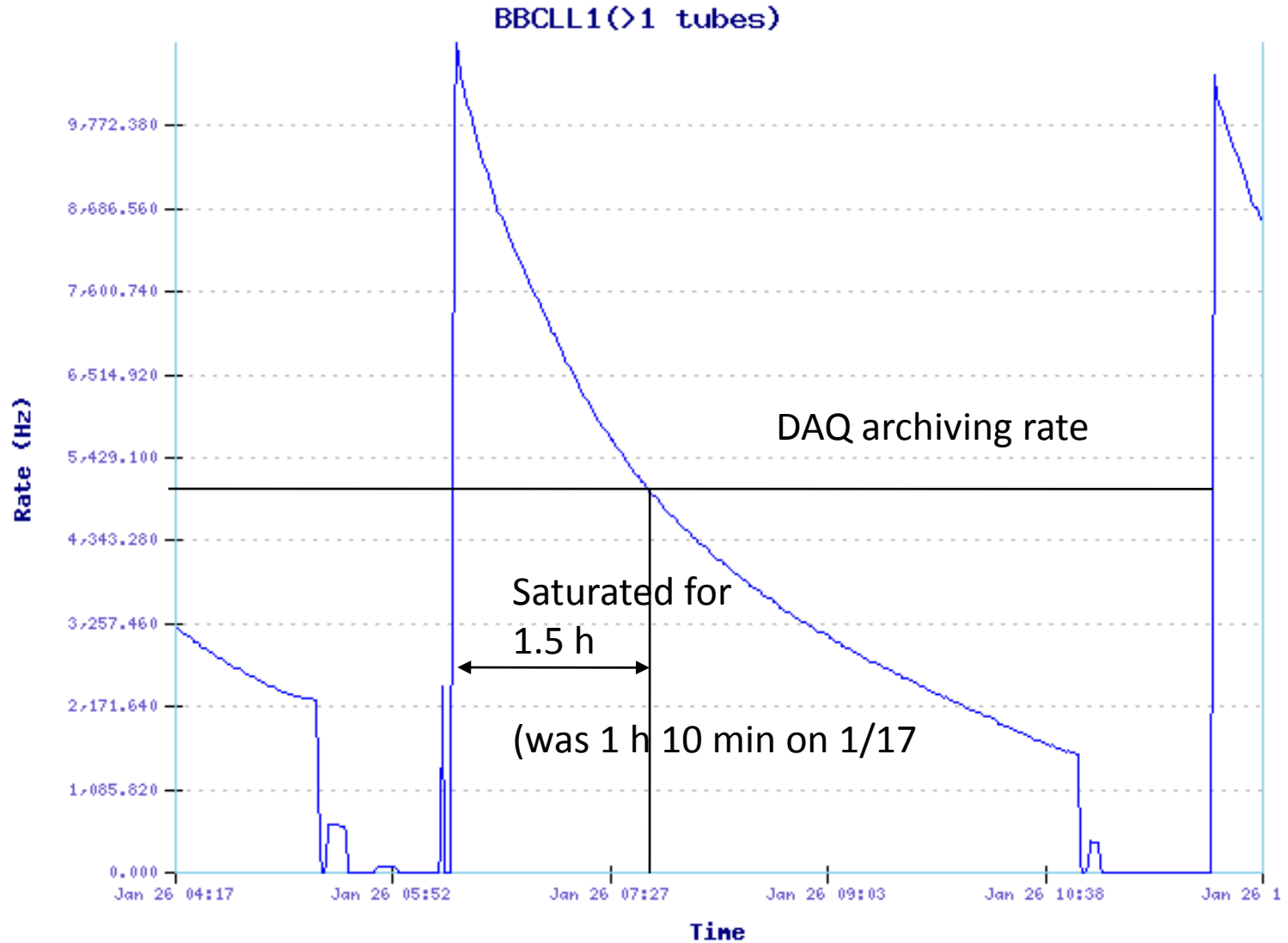
Z [Trigger]	Zbbc [BBLL1]	Zzdc [ZDCLL1wide]	Zbbc [BBCLL1(narrowVtxCut)]
(Scale Fac.) #Evt.	(21) 7599	(301) 1797	(251) 1328
< Each histograms are scaled by scaled factor.>			
Vertex Mean (RMS)	1cm (17.8 cm)	4.3cm (61.8 cm)	5.6cm (55.2 cm)
			0.2cm (12.9 cm)

Bbc ZVertex (south<-->north)

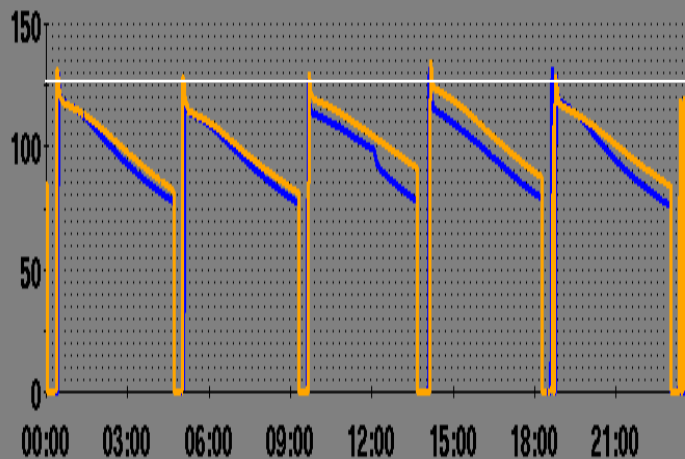

 $Z_{\text{BBLL1 w/o Vtx}}^{\text{Fit}} = 0 \text{ cm } (\sigma = 26 \text{ cm}) \dots \text{ OK}$

Z [Trigger]	Zbbc [BBLL1]	Zzdc [ZDCLL1wide]	Zbbc [BBCLL1(narrowVtxCut)]
(Scale Fac.) #Evt.	(21) 5061	(301) 1061	(251) 868
< Each histograms are scaled by scaled factor.>			
Vertex Mean (RMS)	-0.1cm (17 cm)	3.1cm (52.3 cm)	5.6cm (56.3 cm)
			-0.2cm (12.7 cm)

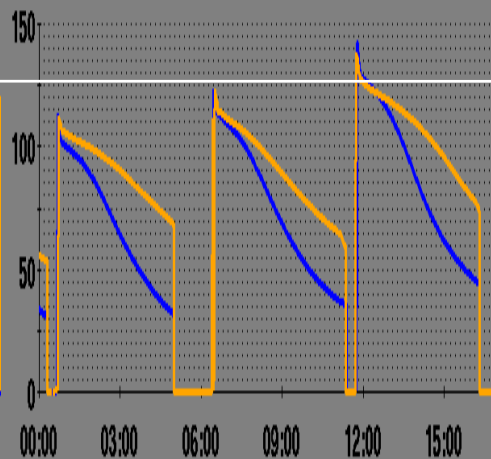
Beam Life Time



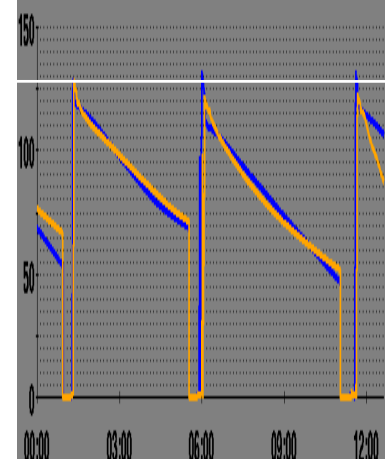
RHIC Beam Intensity Sat Jan 16 23:58:17 2010



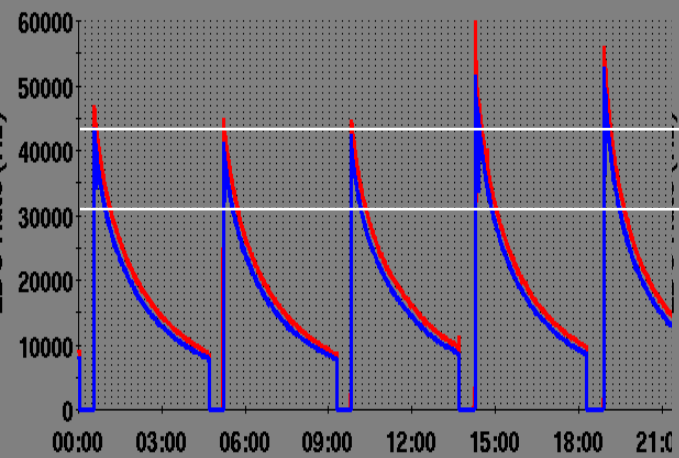
RHIC Beam Intensity Sat Jan 23 18:18:10 2010



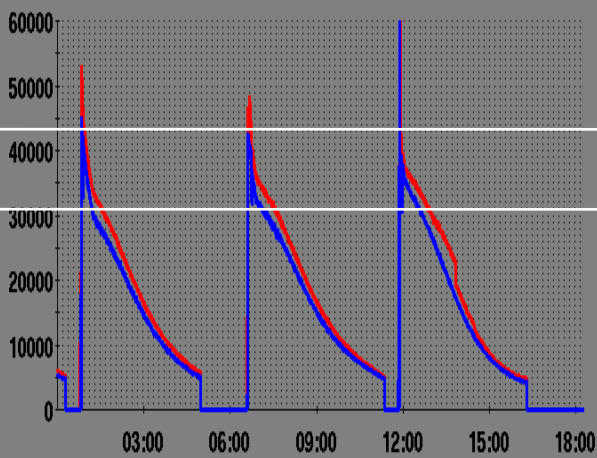
RHIC Beam Intensity Tue Jan 26 12:38:16 2010



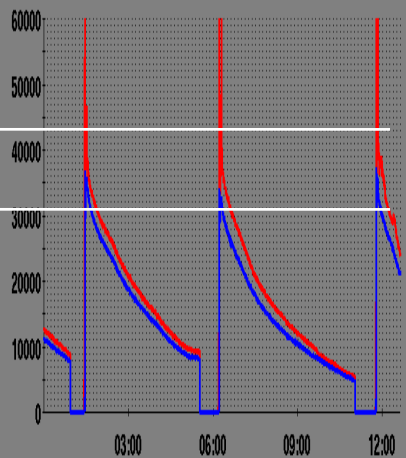
RHIC Luminosity Sat Jan 16 23:58:27 2010



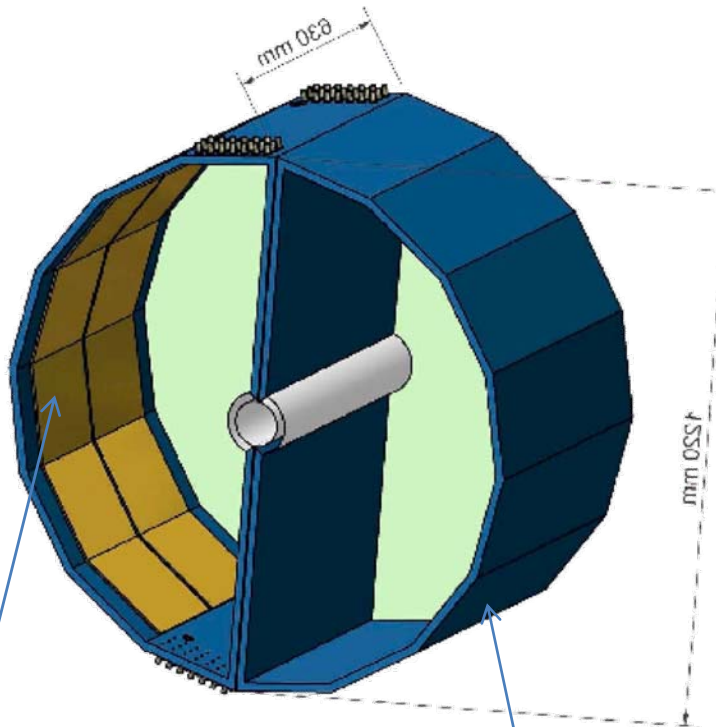
RHIC Luminosity Sat Jan 23 18:18:22 2010



RHIC Luminosity Tue Jan 26 12:38:27 2010

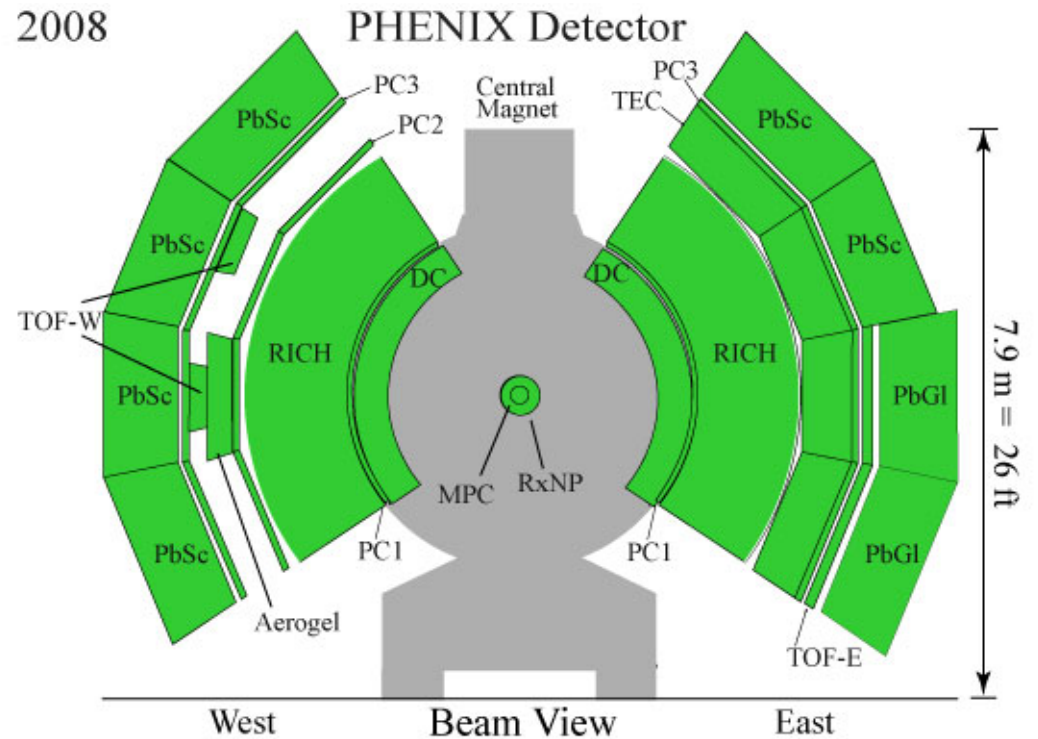


Maintenance Day



EN2
in Central Arm acceptance
1/20 modules

WN1
Half in Central Arm acceptance
1/20 modules

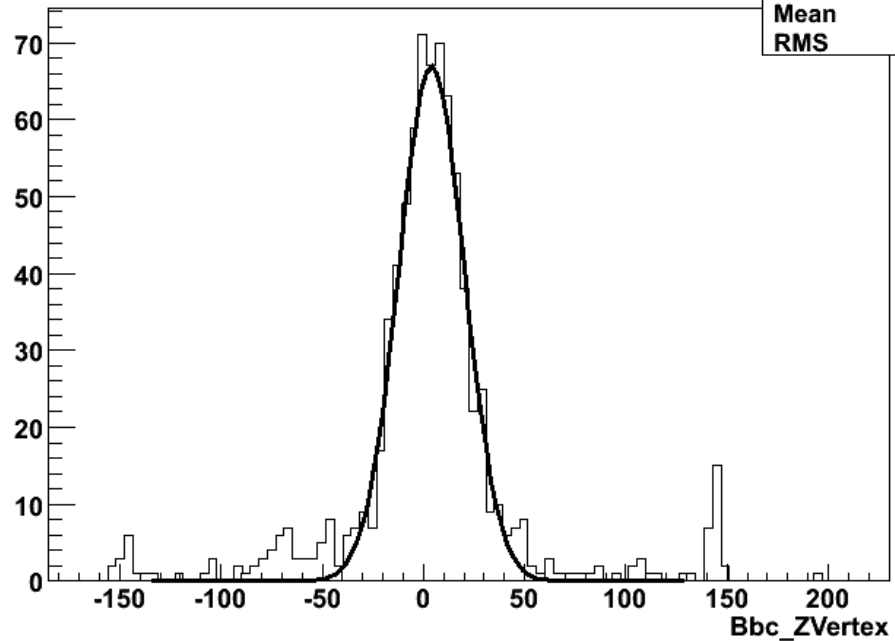


DC.W, three modules
(5% of acceptance)

BACKUP

Bbc_ZVertex {abs(Bbc_ZVertex)<300&&(lv11_trigscaled&0x200)!=0}

htemp	
Entries	794
Mean	3.776
RMS	43.08

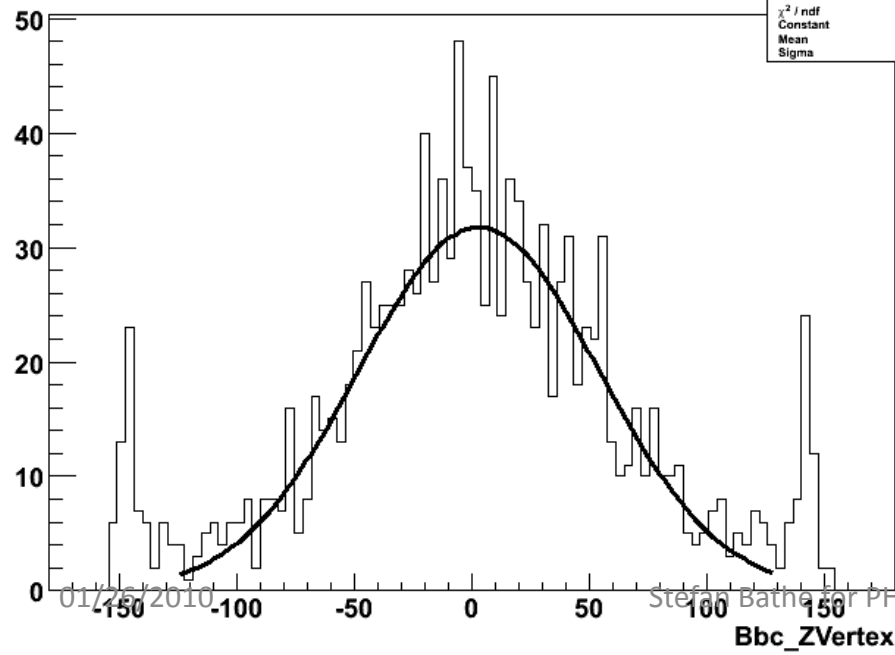


with rebucketing
fill 11382, 1/7

$\sigma = 16.3$ cm
cut acc.
30 cm \Rightarrow 90 %
20 cm \Rightarrow 76 %
10 cm \Rightarrow 45 %

Bbc_ZVertex {abs(Bbc_ZVertex)<200&&(lv11_trigscaled&0x200)!=0}

htemp	
Entries	1329
Mean	1.355
RMS	65.28
χ^2 / ndf	88.61 / 68
Constant	31.78 ± 1.27
Mean	2.937 ± 1.617
Sigma	51.14 ± 1.49



without rebucketing
fill 11437, 1/12

$\sigma = 50$ cm
cut acc.
30 cm \Rightarrow 44 %
20 cm \Rightarrow 31 %
10 cm \Rightarrow 16 %

acc. hit
 \Rightarrow 0.49
 \Rightarrow 0.41
 \Rightarrow 0.36

Beam Life Time

