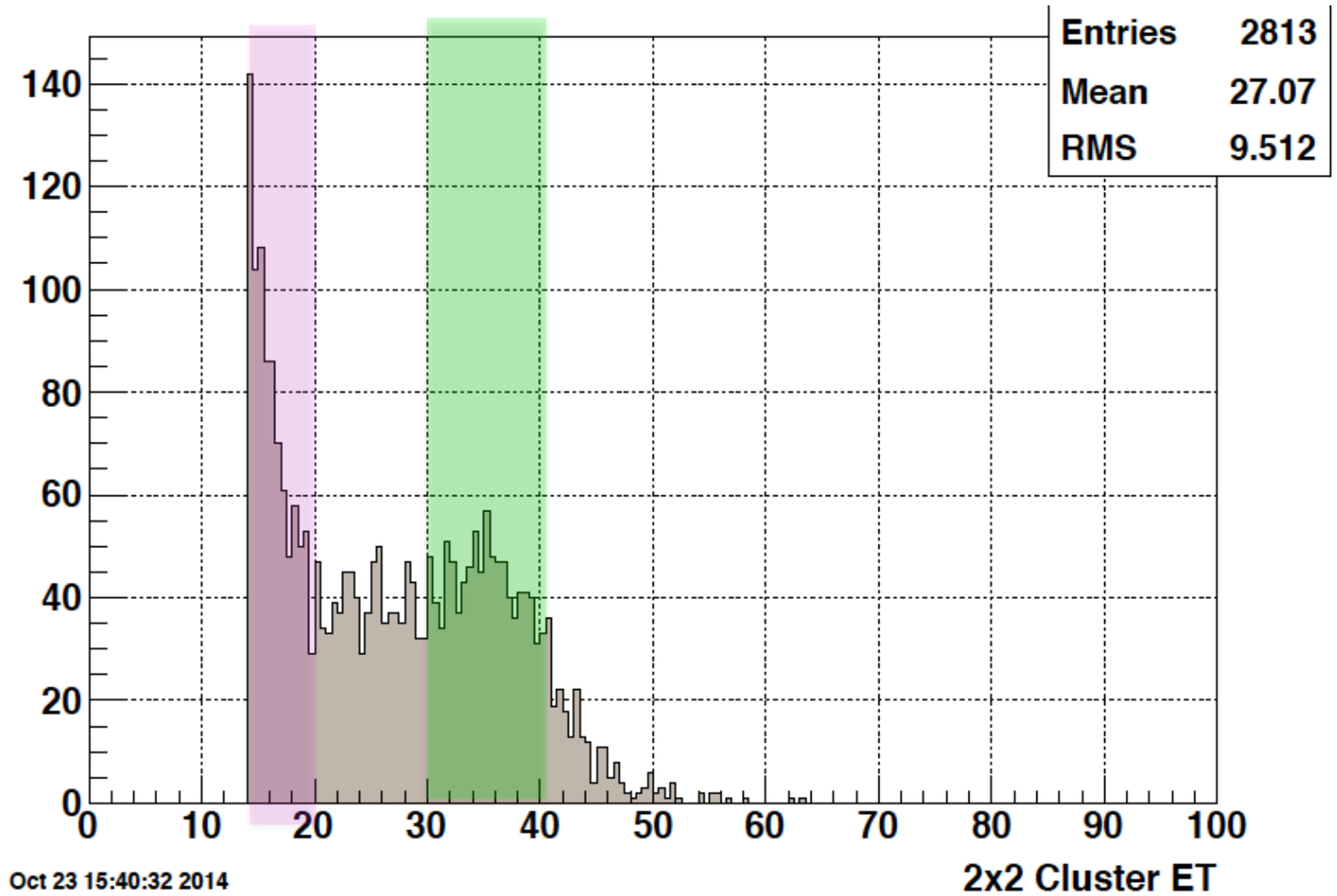
	2x2 ET (Barrel)	2x2 ET (Endcap)	2x2 / 4x4	2x2 / nearCone	Δd (track-ET)	Et/Pt	Jet Pt (min)	near Cone radius	jet-Cone-radius	awayCone phi	track PT
Set 1	14 GeV	14 GeV	0.95	0.88	7 cm	0.4-1.8	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV
Set 2	14 GeV	14 GeV	0.95	**0.92**	7 cm	**0.5-1.7**	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV
Set 3	14 GeV	14 GeV	0.95	0.92	9 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV
Set 4	14 GeV	14 GeV	0.95	0.92	**5.5 cm**	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV
Set 5	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	**0.5 rad**	0.6 rad	0.7 rad	10 GeV
Set 6	**17 GeV**	**17 GeV**	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV
Set 7	17 GeV	17 GeV	0.95	0.90	7 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV
Set 8	17 GeV	14 GeV	0.95	0.90	7 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV
Set 9	14 GeV	14 GeV	**0.97**	0.92	7 cm	0.5-1.7	5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV
Set 10	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	0.7 rad	**0.5 rad**	0.7 rad	10 GeV
Set 11	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	5 GeV	0.7 rad	0.6 rad	0.7 rad	**15 GeV**
Set 12	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	5 GeV	**0.9 rad**	0.6 rad	**0.9 rad**	10 GeV
Set 13	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	5 GeV	**0.8 rad**	0.6 rad	0.7 rad	10 GeV
Set 14	14 GeV	14 GeV	0.95	0.92							

ET distribution (signPtbalance > 14 GeV)



ET range (GeV)	set 1: 0.88, 7cm	set 2: 0.92, 7 cm	1-(set2/set1)%
BG: 14-20	942	480	*50%*
Si: 30-40	904	691	*24%*
Si/BG	*0.95*	*1.43*	

Set 1 : nearCone cut 88%

W+ **25 < ET < 50 GeV**

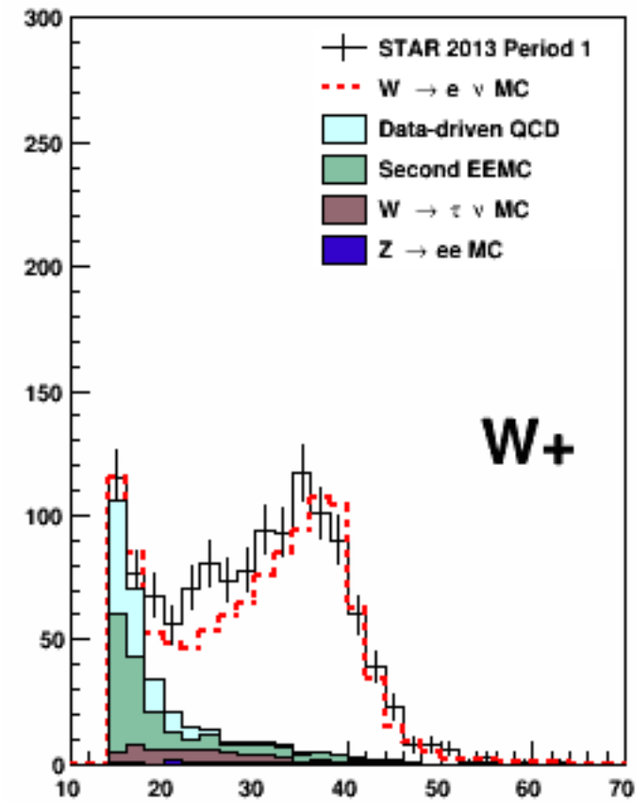
etaBin	rawYield	qcdBkgd	secondEEMC	zeeBkgd	wTauYield	totalBkgd	wYield	wYield/raw	Total BG/raw
1	249	2.47	4	2.12	2.84	8.59	240.41	0.97	0.03
2	298	2.63	4	2.82	6.02	9.45	288.55	0.97	0.03
3	276	2.11	5	3.35	6.94	10.47	265.53	0.96	0.04
4	230	5.37	5	2.56	4.85	12.93	217.07	0.94	0.06
8	**1057**	**11.16**	**16**	**9.53**	**20.65**	**36.69**	**1020.31**	**0.97**	**0.03**
Set 2 : nearCone cut 92%									
1	206	0.69	19	1.86	2.2	21.56	184.44	0.90	0.10
2	230	1.11	6	2.57	4.32	9.68	220.32	0.96	0.04
3	220	0.97	3	2.66	5.86	6.64	213.36	0.97	0.03
4	174	3.9	4	2.13	3.75	10.03	163.97	0.94	0.06
8	**834**	**5.13**	**30**	**7.72**	**16.12**	**42.85**	**791.15**	**0.95**	**0.05**

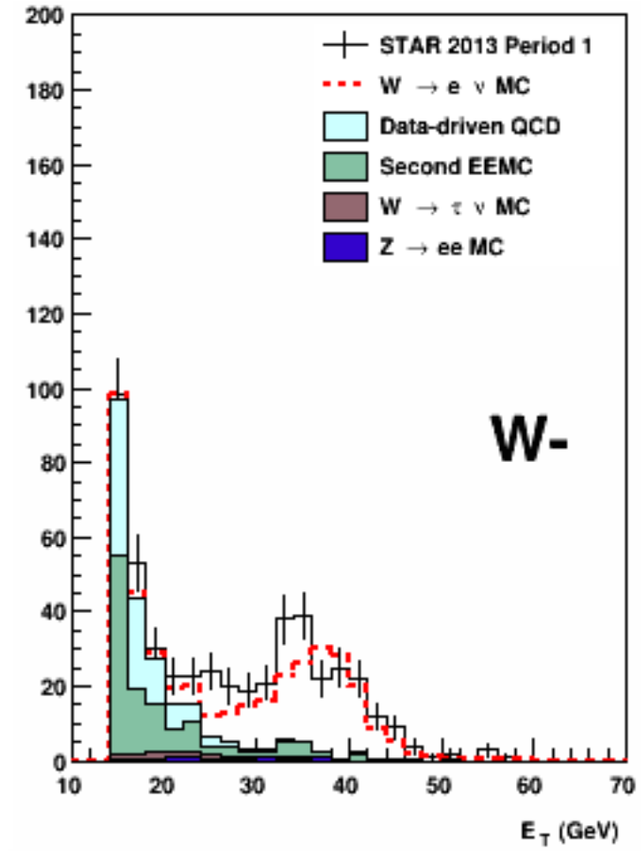
Set 1 : nearCone cut 88%

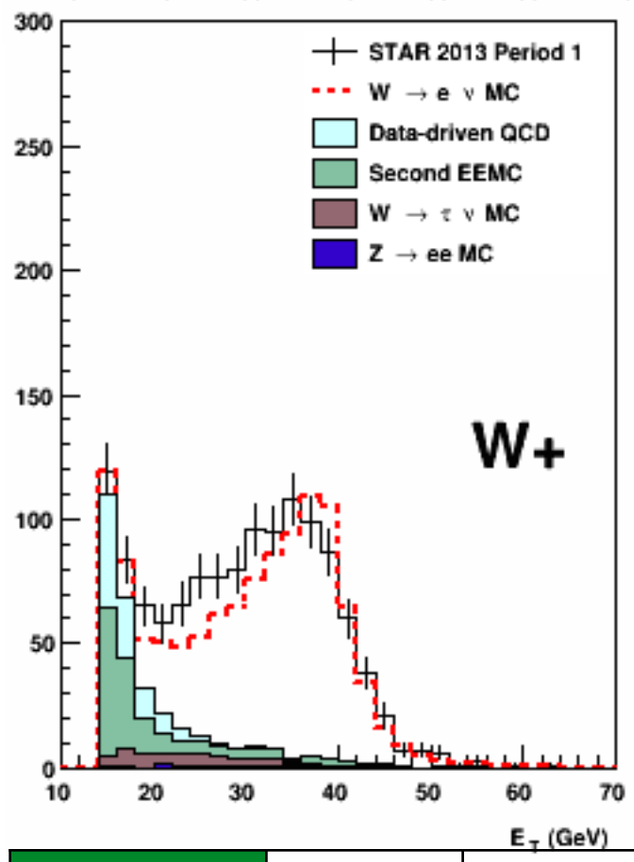
W- **25 < ET < 50 GeV**

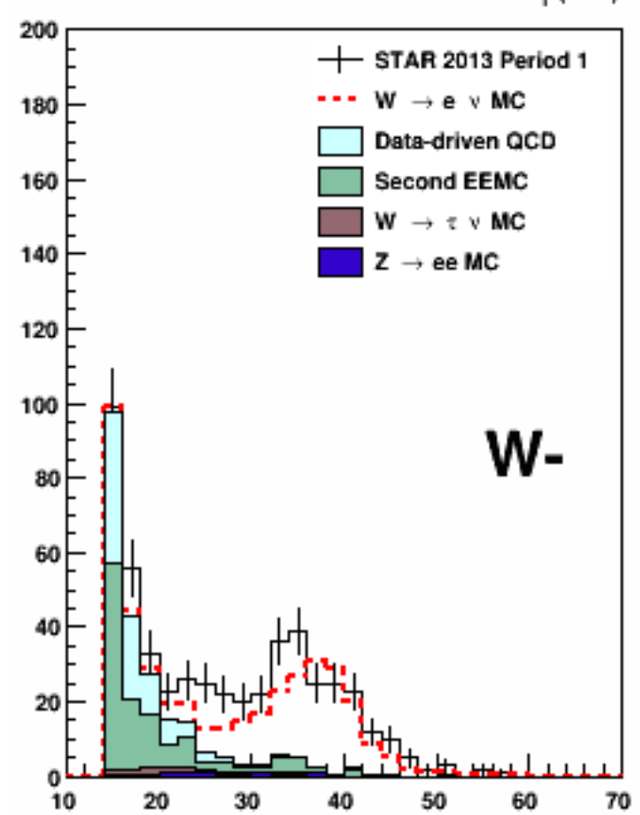
etaBin	rawYield	qcdBkgd	secondEEMC	zeeBkgd	wTauYield	totalBkgd	wYield	wYield/raw	Total BG/raw
1	77	1.29	9	1.68	1.49	11.96	65.04	0.84	0.16
2	63	4.77	3	2.29	1.58	10.06	52.94	0.84	0.16
3	71	2.22	5	1.85	1.58	9.07	61.93	0.87	0.13
4	110	4.05	5	2.12	0.91	11.17	98.83	0.90	0.10
8	**324**	**9.57**	**22**	**5.83**	**5.65**	**37.4**	**286.6**	**0.88**	**0.12**
Set 2 : nearCone cut 92%									
1	61	2.23	8	1.51	1.26	11.74	49.26	0.81	0.19
2	48	1.27	2	2.31	1.01	5.58	42.42	0.88	0.12
3	57	0.44	2	1.51	1.42	3.95	53.05	0.93	0.07
4	79	2.09	3	1.95	0.67	7.04	71.96	0.91	0.09
8	**248**	**4.64**	**17**	**5.32**	**4.44**	**26.97**	**221.03**	**0.89**	**0.11**

	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
Set 2	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV



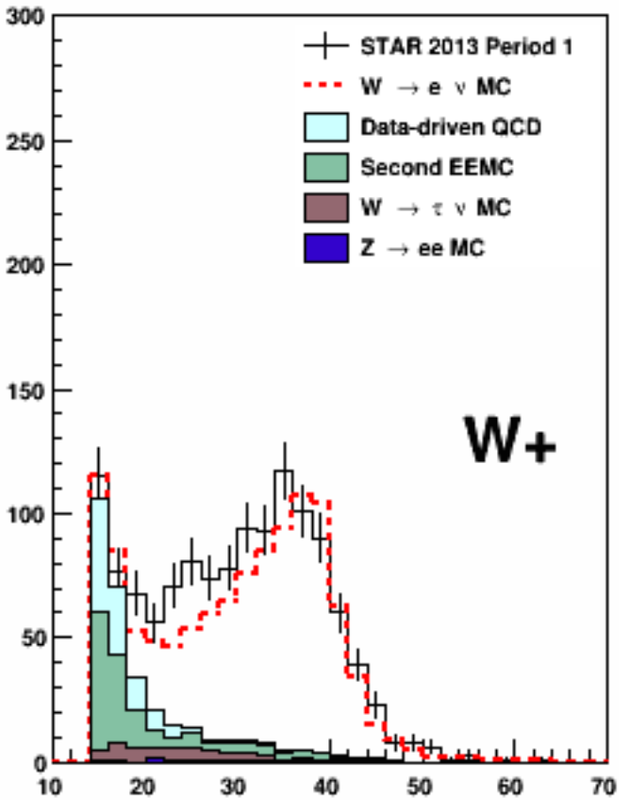


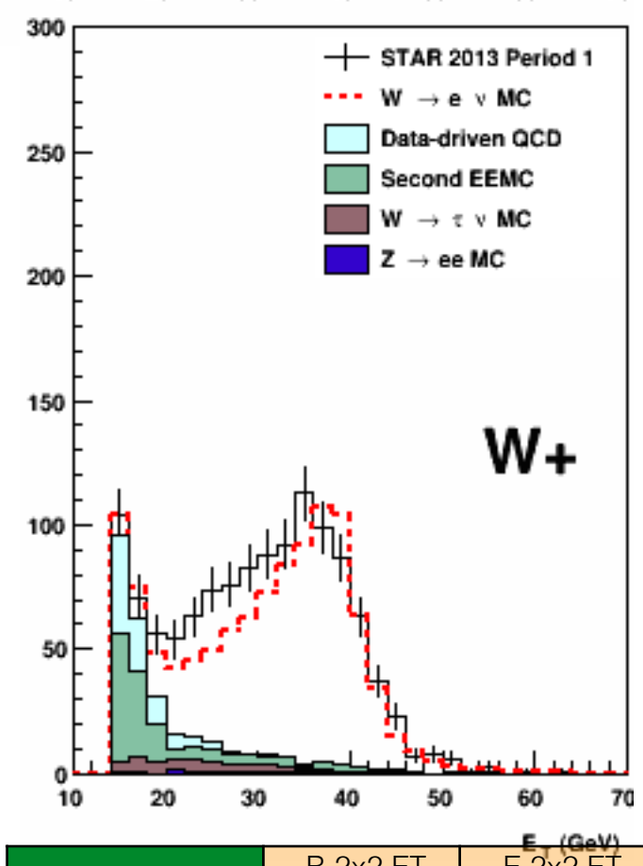




Set 3	14 GeV	14 GeV	0.95	0.92	**9 cm**	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV

Set 2	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV





Set 2 — **W+** — **25 < ET < 50 GeV**

	raw	QCD	EEMC	Zee	wTau	Tot. BG	wSig	sig/raw	BG/raw
1	206	0.69	19	1.86	2.2	21.56	184.44	0.90	0.10
2	230	1.11	6	2.57	4.32	9.68	220.32	0.96	0.04
3	220	0.97	3	2.66	5.86	6.64	213.36	0.97	0.03
4	174	3.9	4	2.13	3.75	10.03	163.97	0.94	0.06
8	**834**	**5.13**	**30**	**7.72**	**16.12**	**42.85**	**791.15**	**0.95**	**0.05**

Set 4

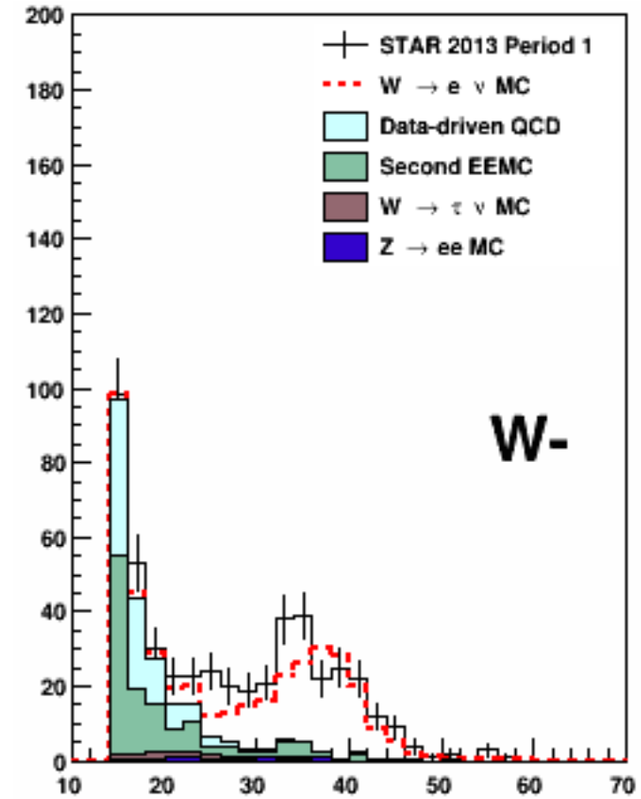
1	199	0.45	18	1.73	2.22	20.18	178.82	0.90	0.10
2	226	1.14	6	2.5	4.12	9.64	216.36	0.96	0.04
3	215	0.88	3	2.85	5.39	6.73	208.27	0.97	0.03
4	177	3.3	3	1.99	3.57	8.29	168.71	0.95	0.05
8	**821**	**4.14**	**29**	**7.34**	**15.31**	**40.48**	**780.52**	**0.95**	**0.05**

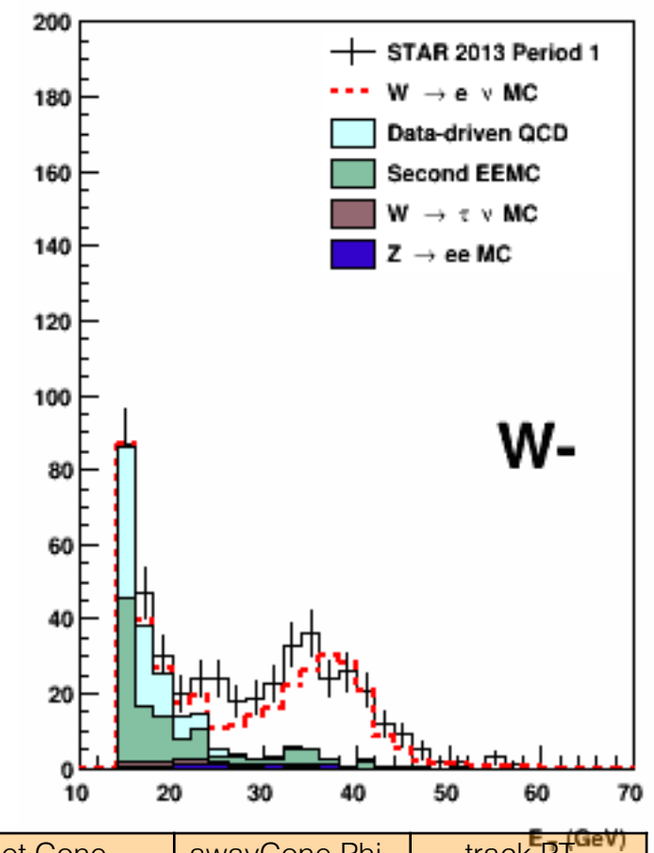
Set 2 — **W-** — **25 < ET < 50 GeV**

1	77	1.29	9	1.68	1.49	11.96	65.04	0.81	0.19
2	63	4.77	3	2.29	1.58	10.06	52.94	0.88	0.12
3	71	2.22	5	1.85	1.58	9.07	61.93	0.93	0.07
4	110	4.05	5	2.12	0.91	11.17	98.83	0.91	0.09
8	**324**	**9.57**	**22**	**5.83**	**5.65**	**37.4**	**286.6**	**0.89**	**0.11**

Set 4

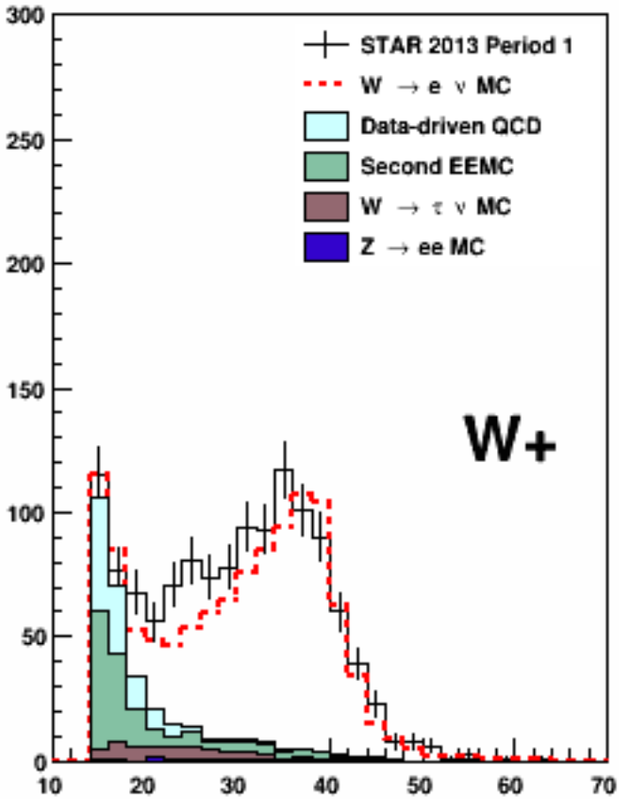
1	60	2.07	8	1.64	1.3	11.71	48.29	0.80	0.20
2	45	0.84	2	2.07	0.9	4.91	40.09	0.89	0.11
3	55	0.49	2	1.64	1.39	4.13	50.87	0.92	0.08
4	82	2.02	3	1.9	0.65	6.92	75.08	0.92	0.08
8	**244**	**4.25**	**16**	**5.27**	**4.32**	**25.52**	**218.48**	**0.90**	**0.10**

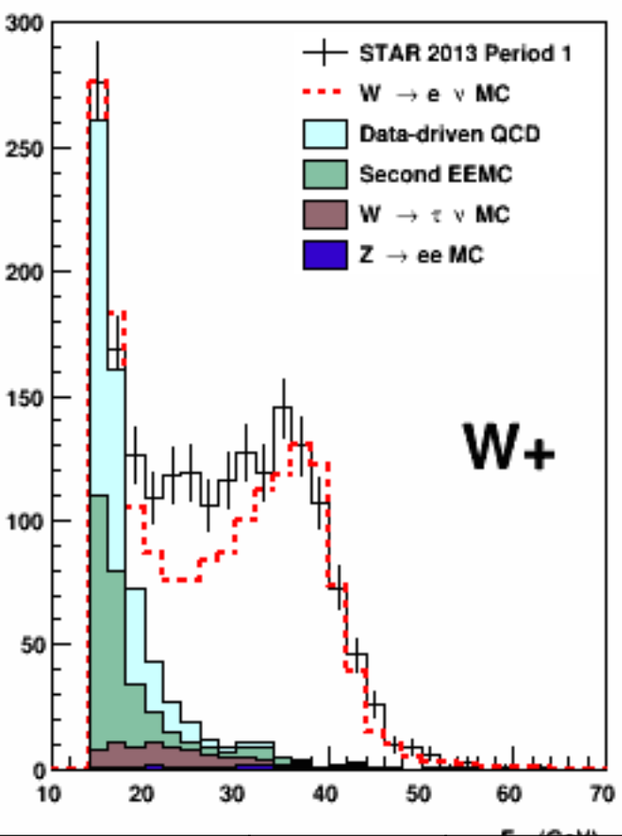




Set 4	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	0.95	0.92	**5.5 cm**	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV

Set 2	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV



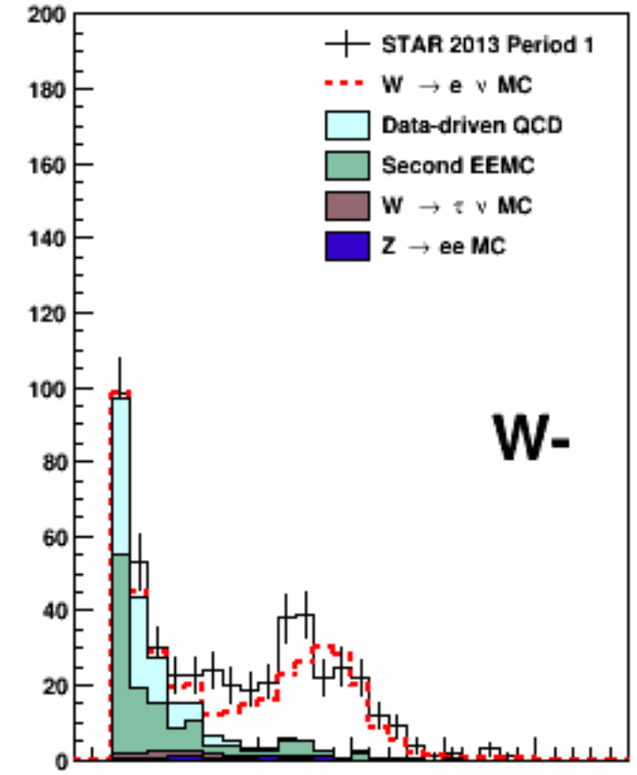


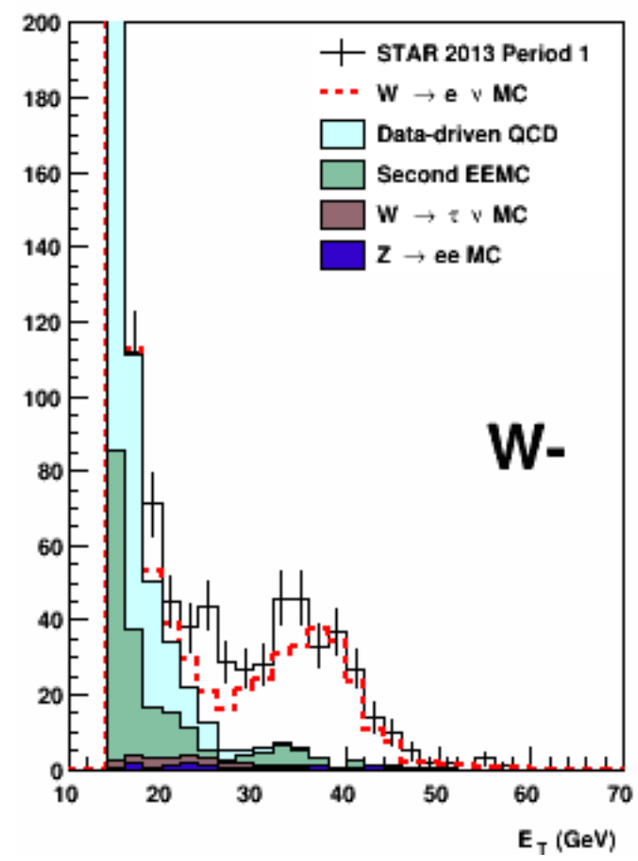
W+ — **25 < ET < 50 GeV**

Set 2	raw	QCD	EEMC	Zee	wTau	Tot. BG	wSig	sig/raw	BG/raw
1	206	0.69	19	1.86	2.2	21.56	184.44	0.90	0.10
2	230	1.11	6	2.57	4.32	9.68	220.32	0.96	0.04
3	220	0.97	3	2.66	5.86	6.64	213.36	0.97	0.03
4	174	3.9	4	2.13	3.75	10.03	163.97	0.94	0.06
8	**834**	**5.13**	**30**	**7.72**	**16.12**	**42.85**	**791.15**	**0.95**	**0.05**
Set 5									
1	250	3.7	8	2.23	2.95	13.93	236.07	0.94	0.06
2	302	2.61	2	2.85	6.71	7.46	294.54	0.98	0.02
3	288	2.68	5	3.3	7.61	10.97	277.03	0.96	0.04
4	238	4.59	6	3.38	4.66	13.98	224.02	0.94	0.06
8	**1082**	**11.88**	**19**	**10.24**	**21.92**	**41.12**	**1040.8**	**0.96**	**0.04**

W- — **25 < ET < 50 GeV**

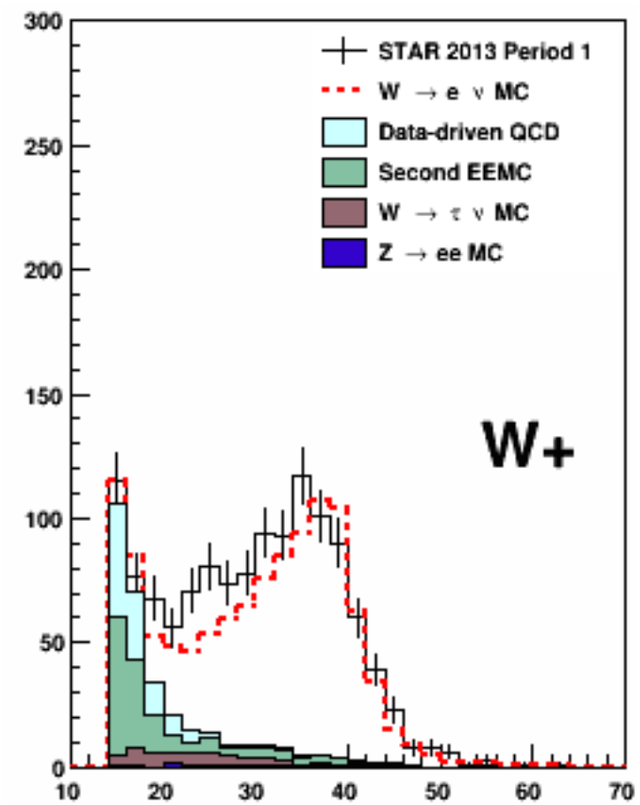
Set 2	raw	QCD	EEMC	Zee	wTau	Tot. BG	wSig	sig/raw	BG/raw
1	77	1.29	9	1.68	1.49	11.96	65.04	0.81	0.19
2	63	4.77	3	2.29	1.58	10.06	52.94	0.88	0.12
3	71	2.22	5	1.85	1.58	9.07	61.93	0.93	0.07
4	110	4.05	5	2.12	0.91	11.17	98.83	0.91	0.09
8	**324**	**9.57**	**22**	**5.83**	**5.65**	**37.4**	**286.6**	**0.89**	**0.11**
Set 5									
1	80	3.05	6	1.78	1.6	10.83	69.17	0.86	0.14
2	62	3.86	6	2.23	1.6	12.09	49.91	0.81	0.20
3	74	2.13	4	2.14	1.68	8.27	65.73	0.89	0.11
4	116	3.68	4	2.32	1.09	10	106	0.91	0.09
8	**334**	**10.69**	**20**	**6.41**	**6.05**	**37.1**	**296.9**	**0.89**	**0.11**

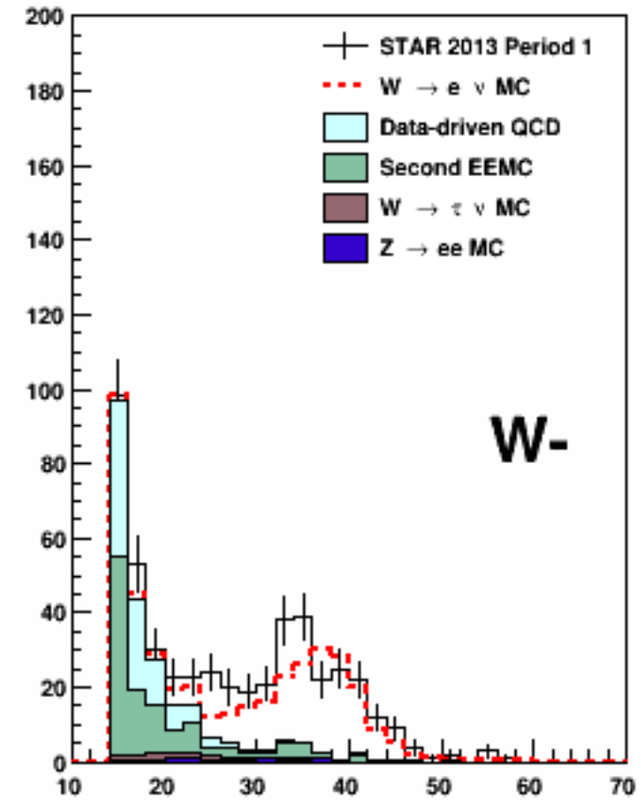


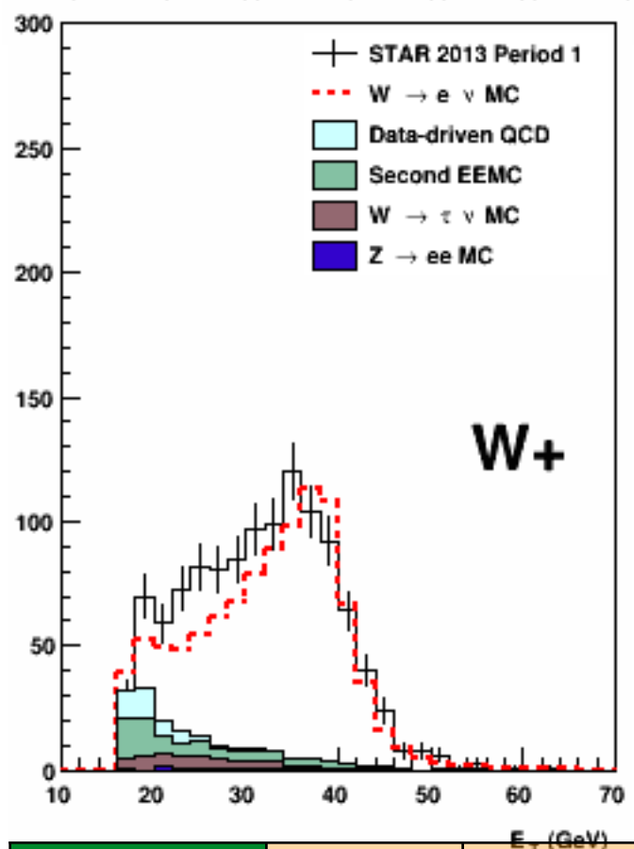


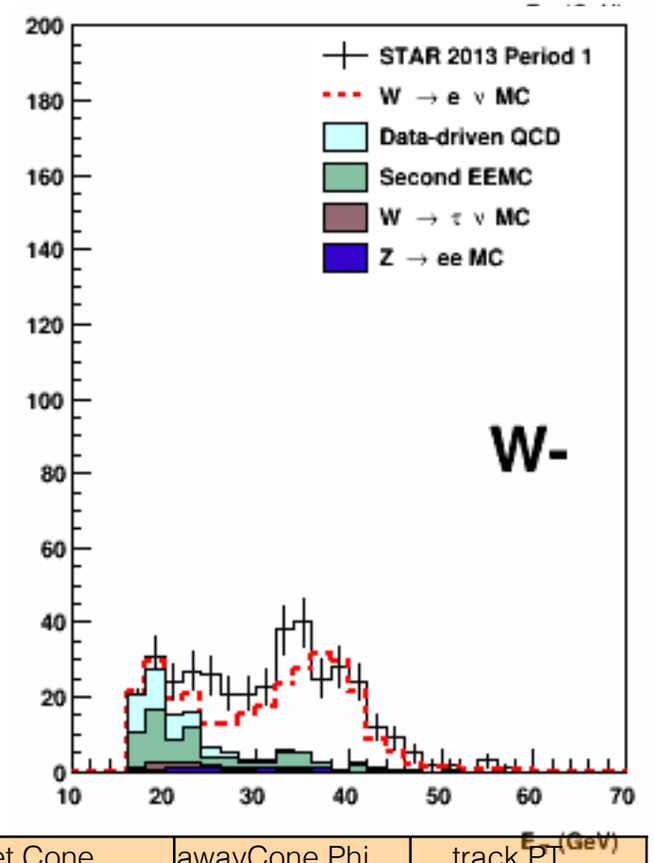
Set 5	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	**0.5 rad**	0.6 rad	0.7 rad	10 GeV

Set 2	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV



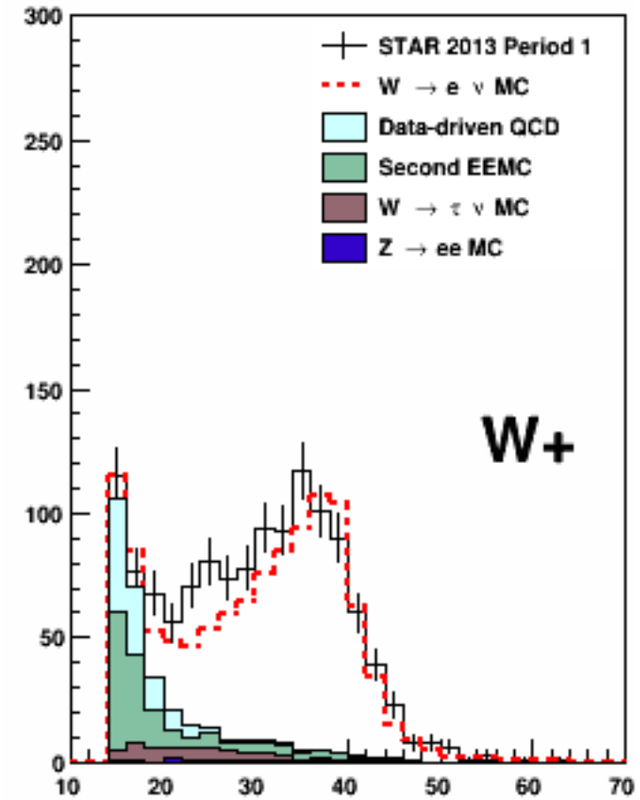






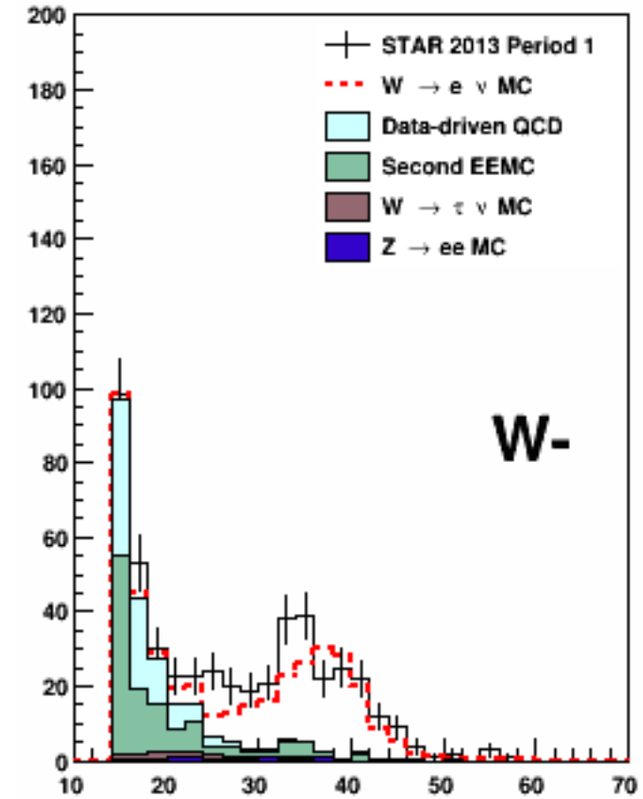
Set 6	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	17 GeV	**17 GeV**	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV

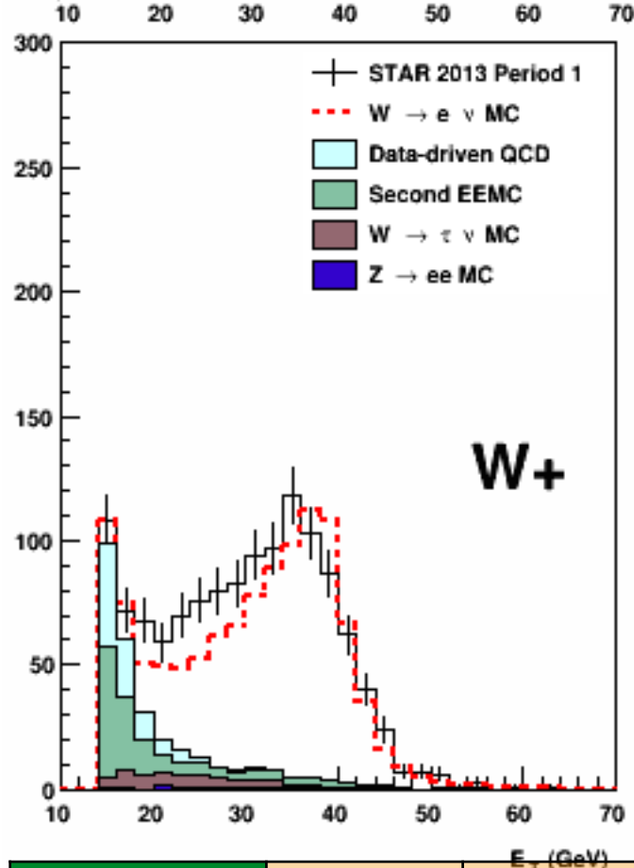
Set 2	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV



W+ — **25 < ET < 50 GeV**

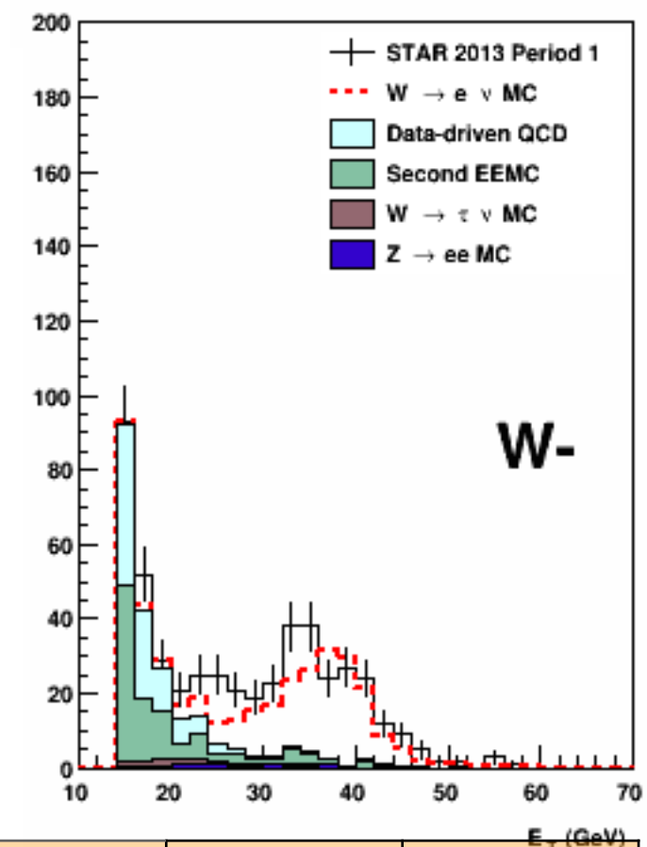
Set 2	raw	QCD	EEMC	Zee	wTau	Tot. BG	wSig	sig/raw	BG/raw
1	206	0.69	19	1.86	2.2	21.56	184.44	0.90	0.10
2	230	1.11	6	2.57	4.32	9.68	220.32	0.96	0.04
3	220	0.97	3	2.66	5.86	6.64	213.36	0.97	0.03
4	174	3.9	4	2.13	3.75	10.03	163.97	0.94	0.06
8	834	5.13	30	7.72	16.12	42.85	791.15	0.95	0.05
Set 9									
1	207	0.49	20	1.87	2.37	22.36	184.64	0.89	0.11
2	236	0.7	5	2.58	4.58	8.29	227.71	0.96	0.04
3	224	0.78	3	2.85	5.97	6.63	217.37	0.97	0.03
4	179	3.89	4	2.23	3.93	10.11	168.89	0.94	0.06
8	850	4.15	30	8.02	16.85	42.17	807.83	0.95	0.05





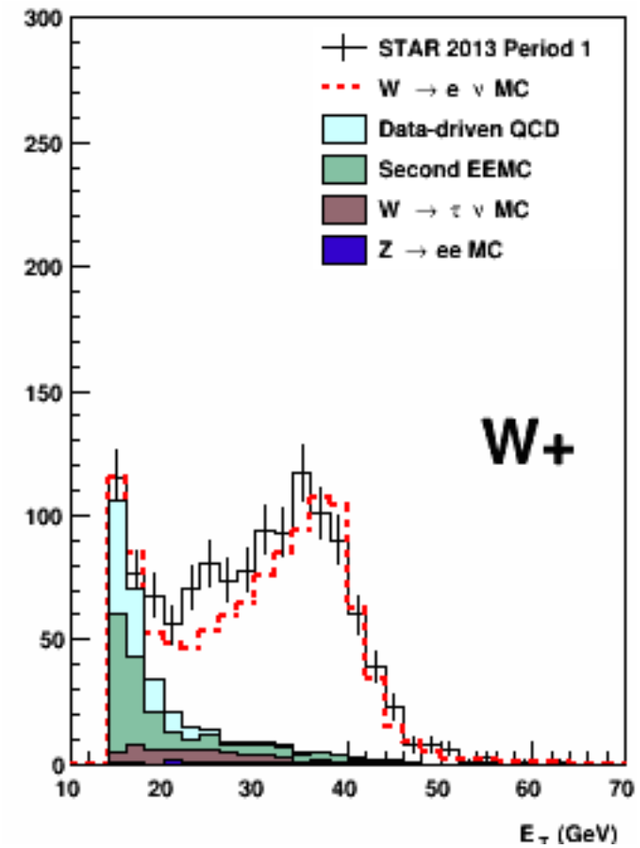
W- — **25 < ET < 50 GeV**

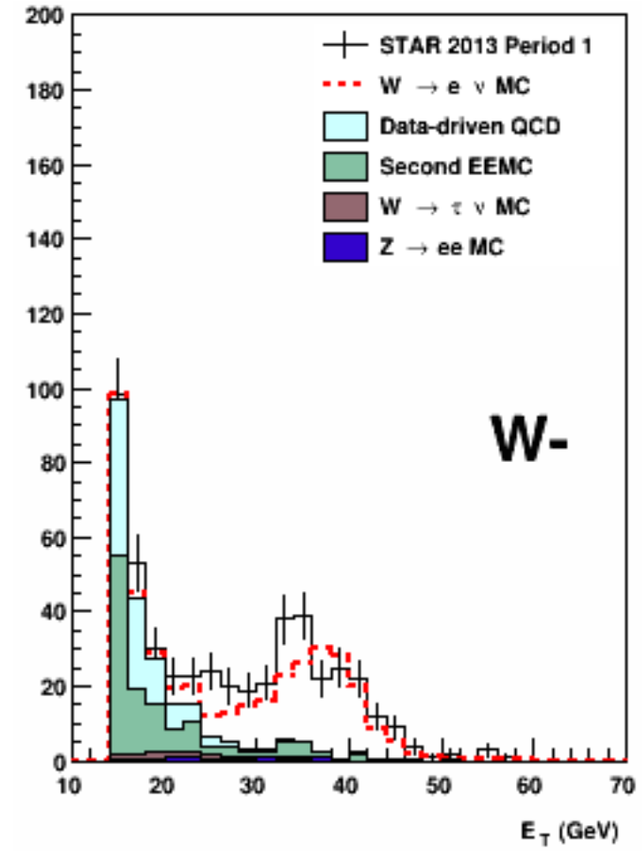
Set 2	raw	QCD	EEMC	Zee	wTau	Tot. BG	wSig	sig/raw	BG/raw
1	77	1.29	9	1.68	1.49	11.96	65.04	0.81	0.19
2	63	4.77	3	2.29	1.58	10.06	52.94	0.88	0.12
3	71	2.22	5	1.85	1.58	9.07	61.93	0.93	0.07
4	110	4.05	5	2.12	0.91	11.17	98.83	0.91	0.09
8	324	9.57	22	5.83	5.65	37.4	286.6	0.89	0.11
Set 9									
1	62	2.2	8	1.6	1.35	11.8	50.2	0.81	0.19
2	51	0.86	2	2.32	1.01	5.18	45.82	0.90	0.10
3	60	0.35	2	1.78	1.43	4.13	55.87	0.93	0.07
4	84	1.94	3	2.05	0.76	6.99	77.01	0.92	0.08
8	259	4.22	16	5.7	4.62	25.92	233.08	0.90	0.10

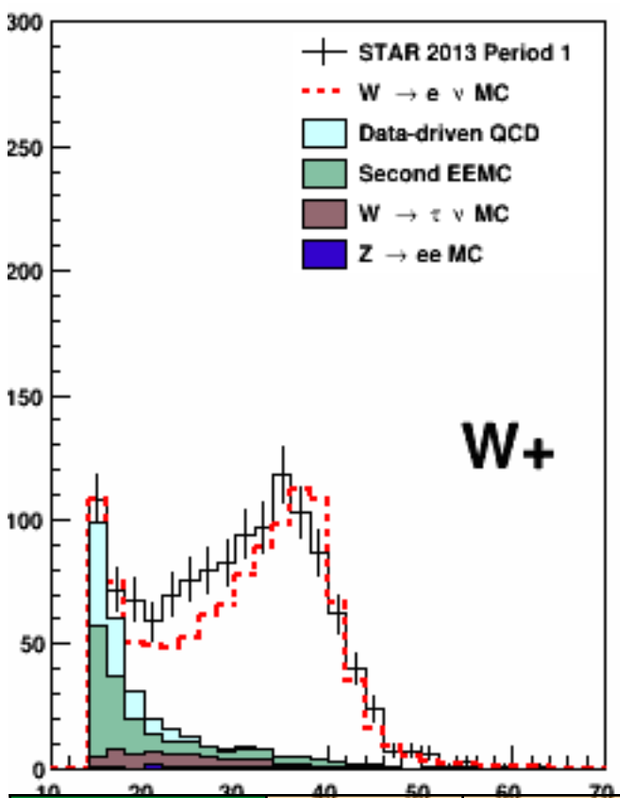


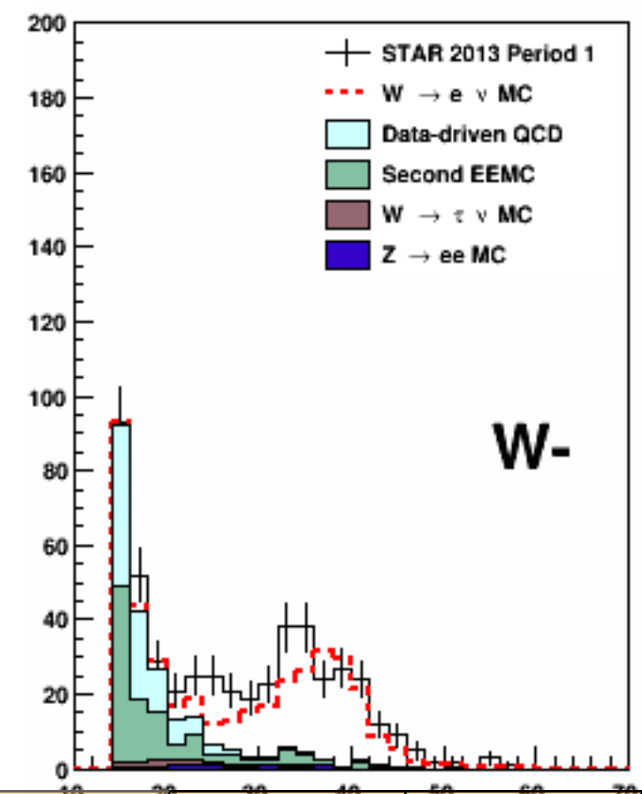
Set 9	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	**0.97**	0.92	7 cm	0.5-1.7	5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV

Set 2	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV



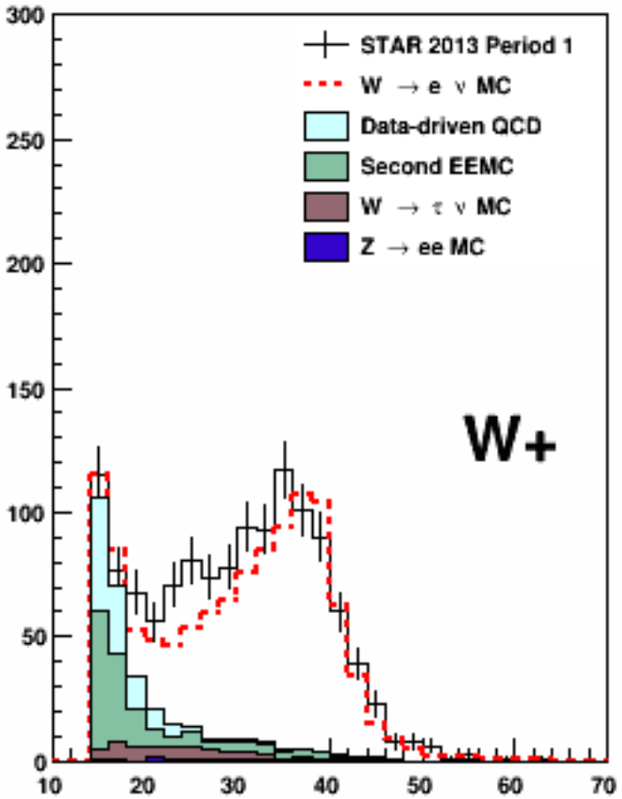


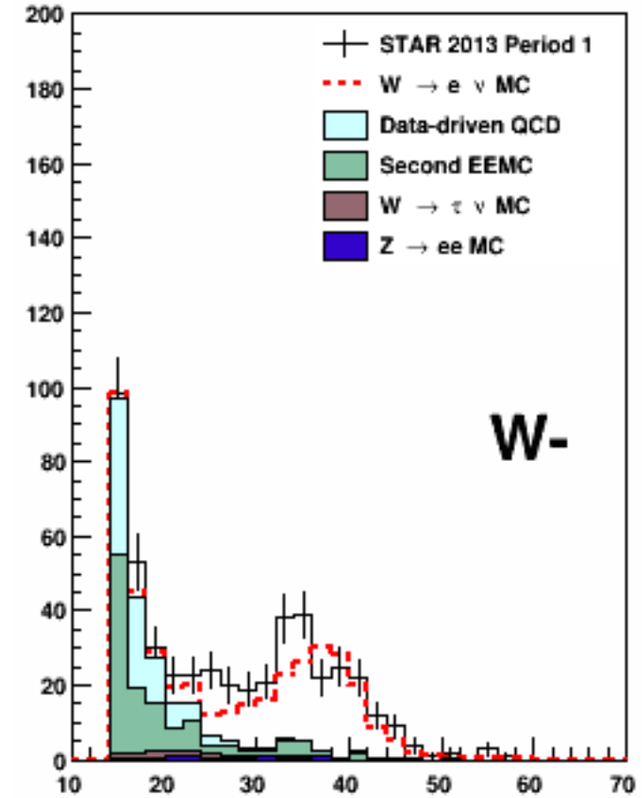


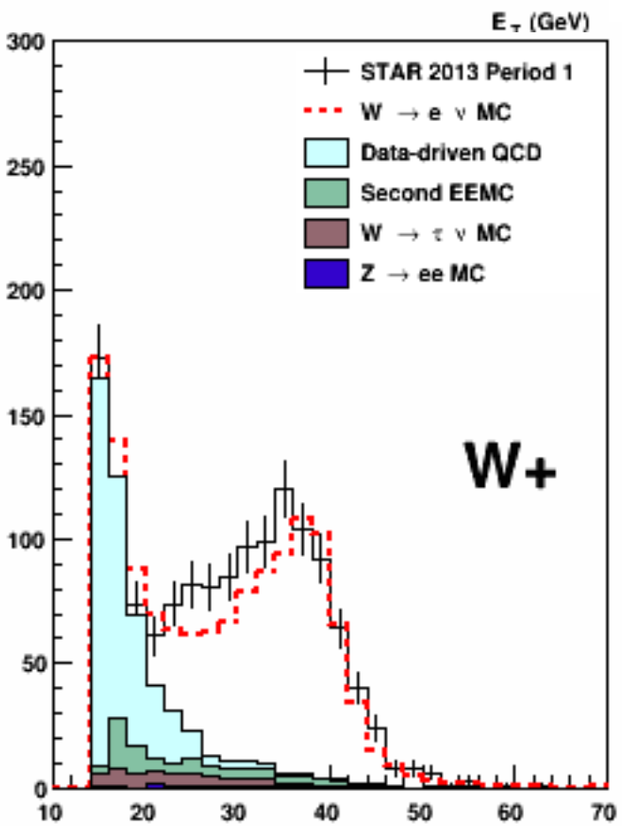


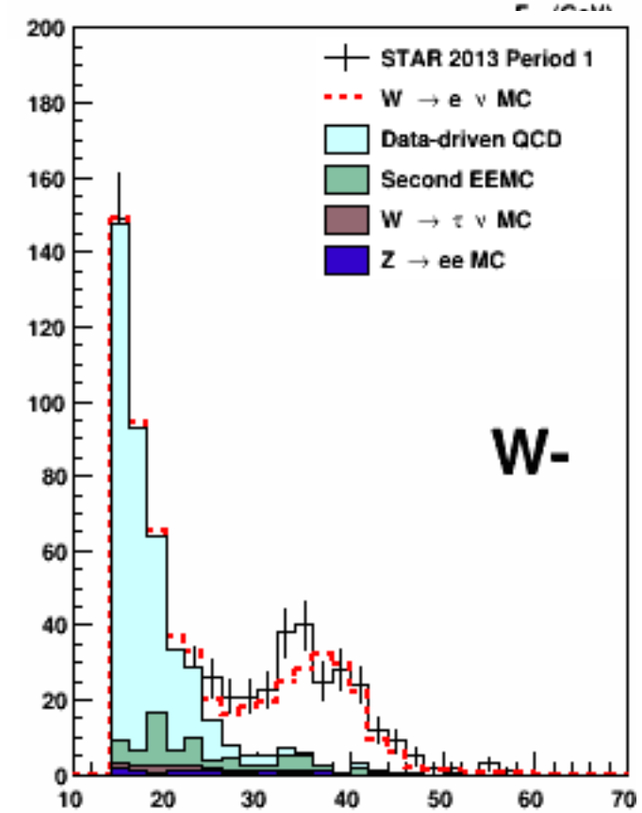
Set 9	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	**0.97**	0.92	7 cm	0.5-1.7	5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV

Set 2	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV



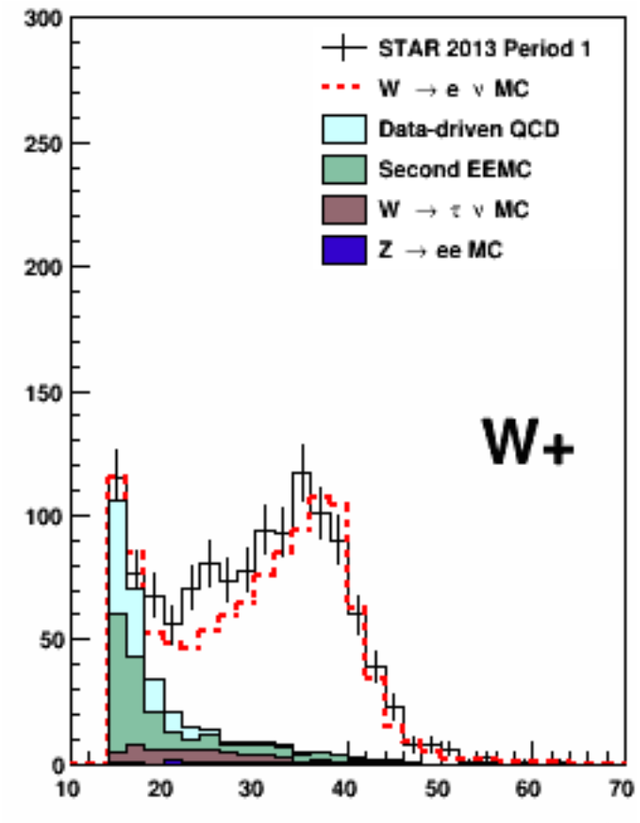


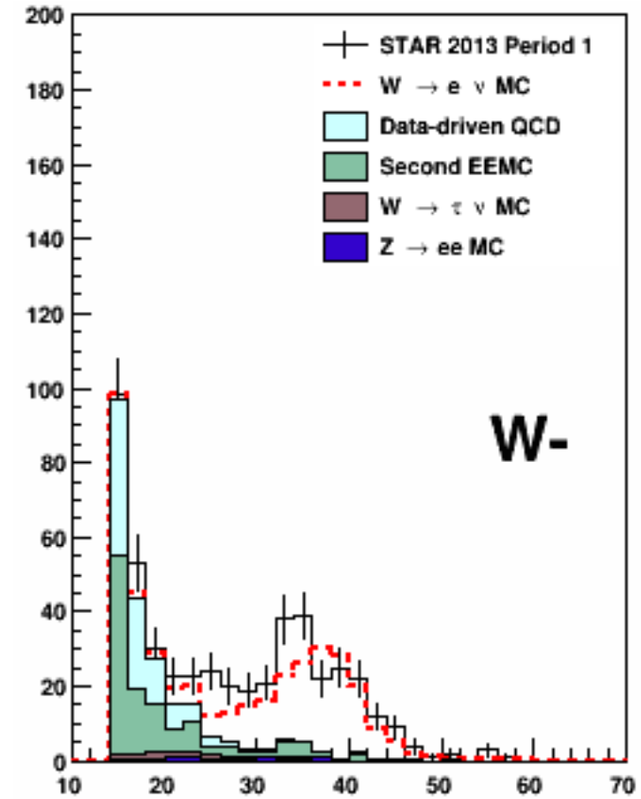


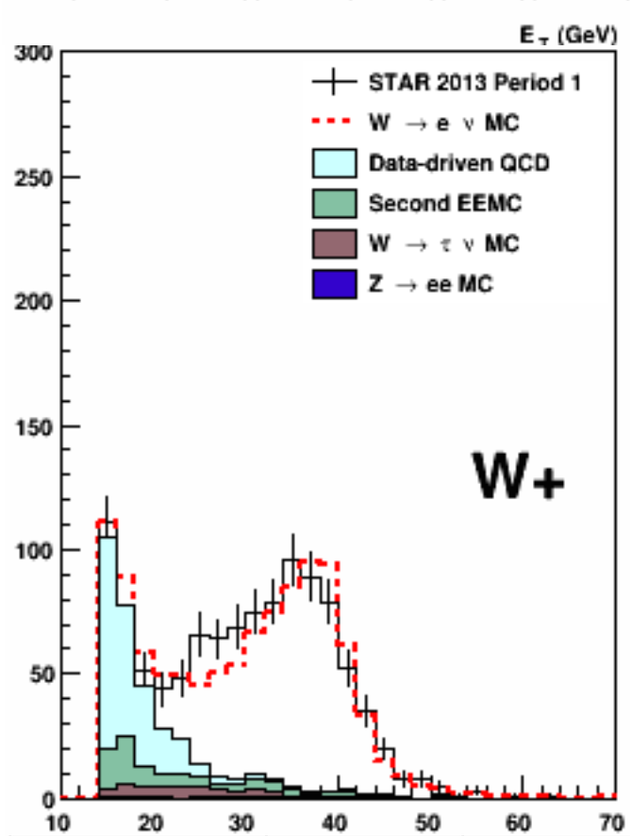


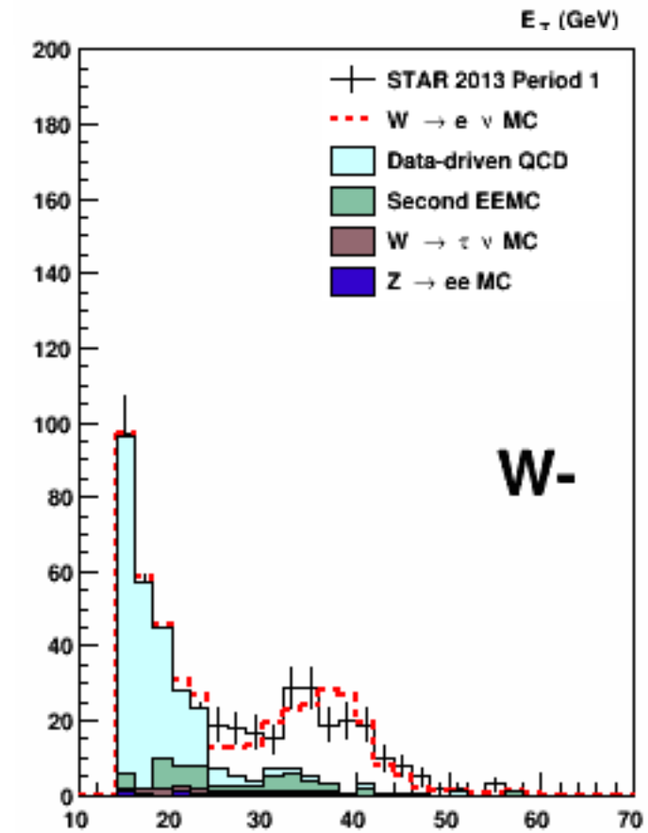
Set 11	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	5 GeV	0.7 rad	0.6 rad	0.7 rad	**15 GeV**

Set 2	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	3.5 GeV	0.7 rad	0.6 rad	0.7 rad	10 GeV









Set 13	B 2x2 ET	E 2x2 ET	2x2/4x4	2x2/nearCone	Δd	Et/Pt	jet Pt	nearCone Δr	jet Cone	awayCone Phi	track PT
	14 GeV	14 GeV	0.95	0.92	7 cm	0.5-1.7	5 GeV	**0.8 rad**	0.6 rad	0.7 rad	10 GeV