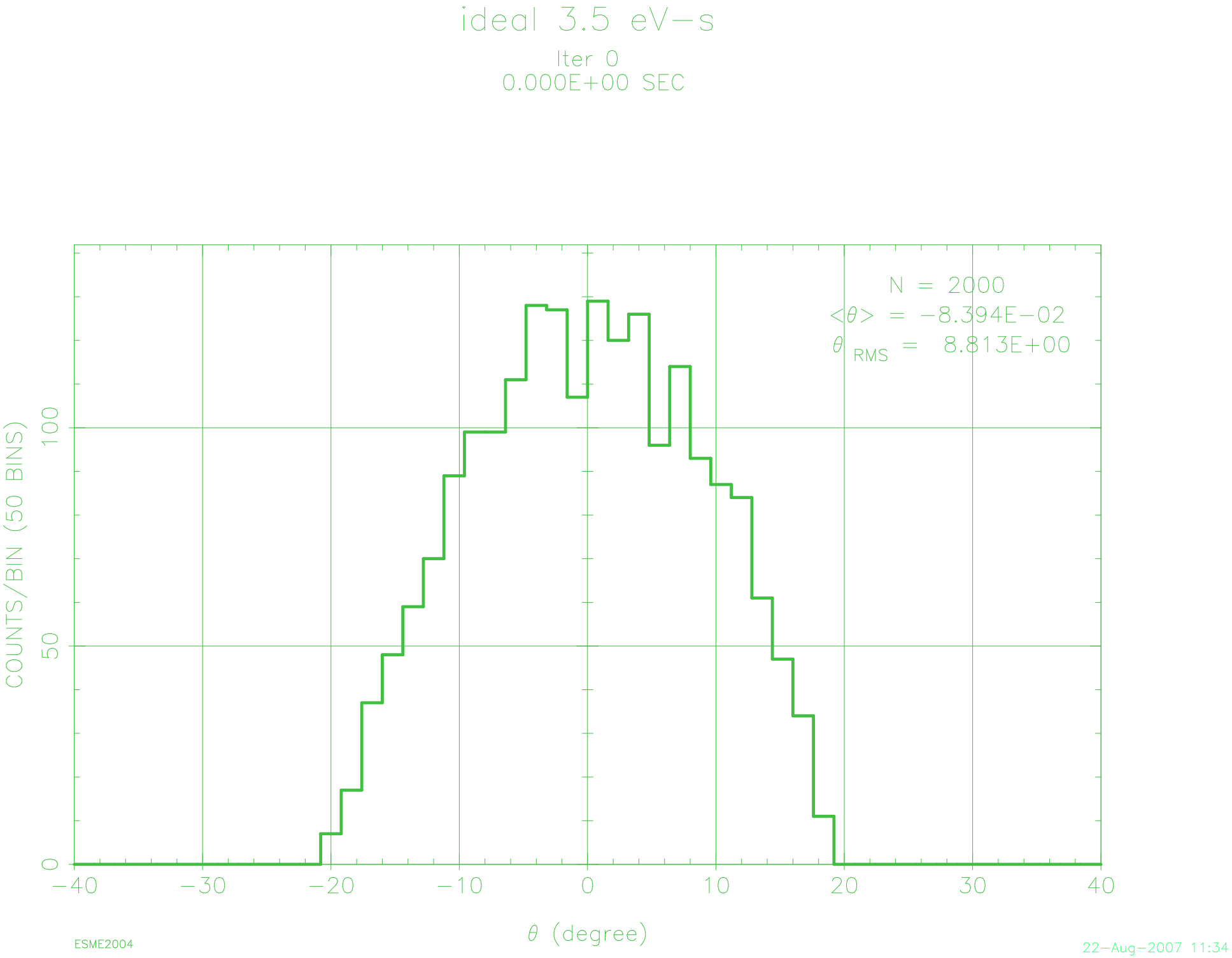
ideal 3.5 eV−s
Iter 0
0.000E+00 SEC
N = 2000
<θ> = −8.394E−02
θ RMS = 8.813E+00
COUNTS/BIN (50 BINS)
0
50
100
−40
−30
−20
−10
0
10
20
30
40
θ (degree)
ESME2004
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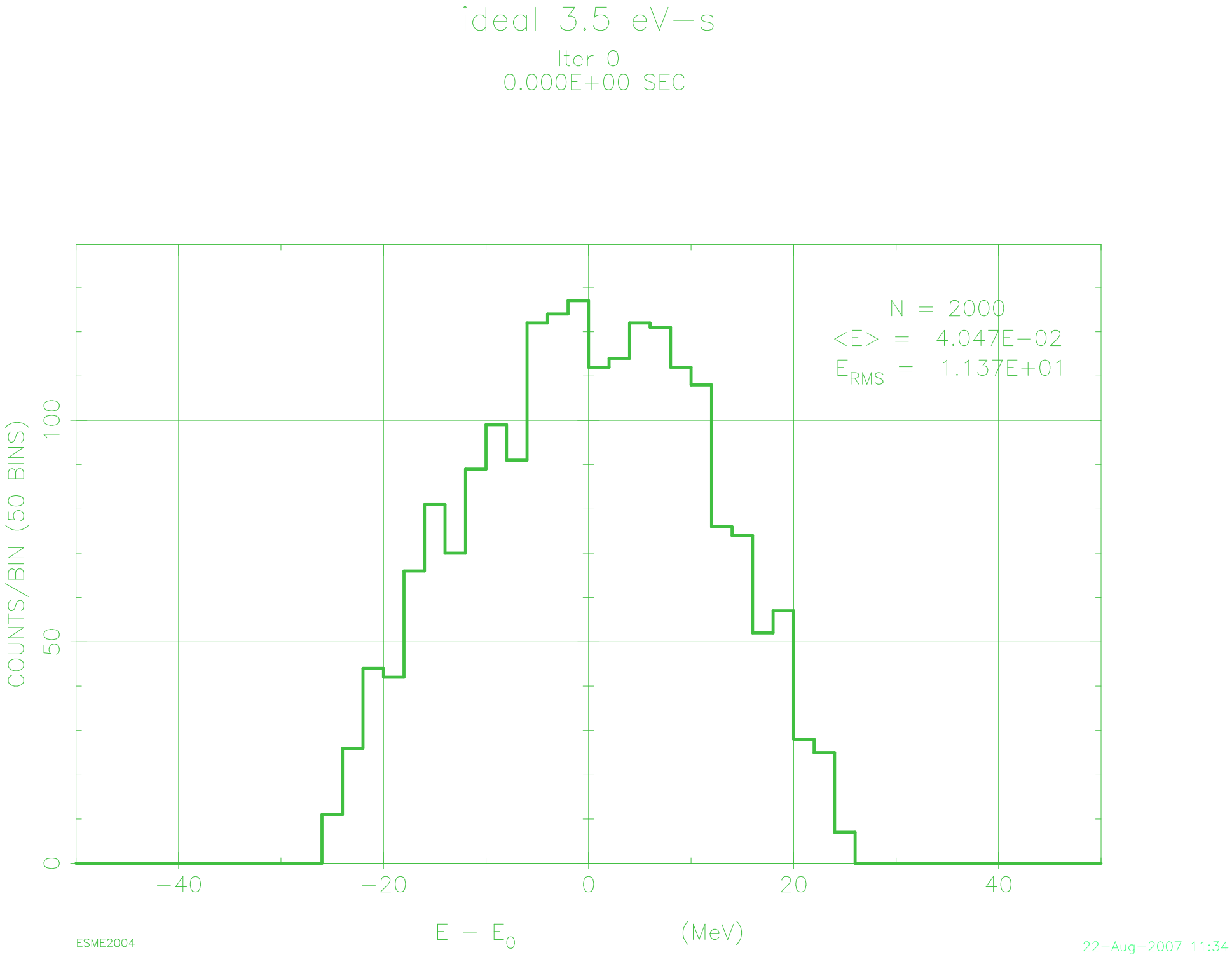
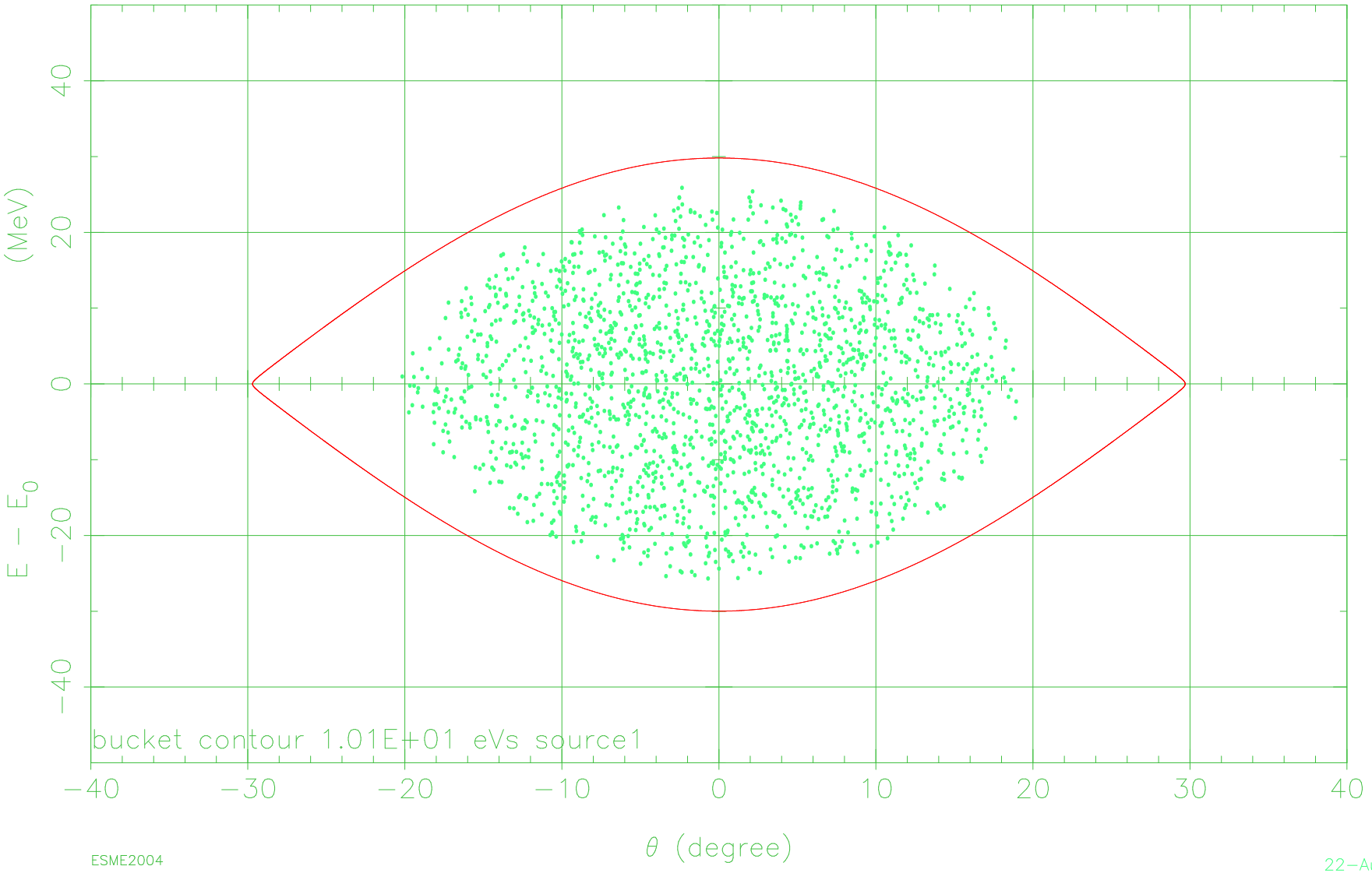

ideal 3.5 eV−s
Iter 0
0.000E+00 SEC
N = 2000
<E> = 4.047E−02
E_RMS = 1.137E+01
COUNTS/BIN (50 BINS)
0
50
100
−40
−20
0
20
40
E − E_0
(MeV)
ESME2004
22−Aug−2007 11:34

ideal 3.5 eV−s

Iter 0 0.000E+00 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
2.9900E+01	1.0085E+01	8.9383E+03	6	6.000E−03	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η			
6.3870E−05	0.0000E+00	6.2938E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.3907E+00	2000			



ESME2004

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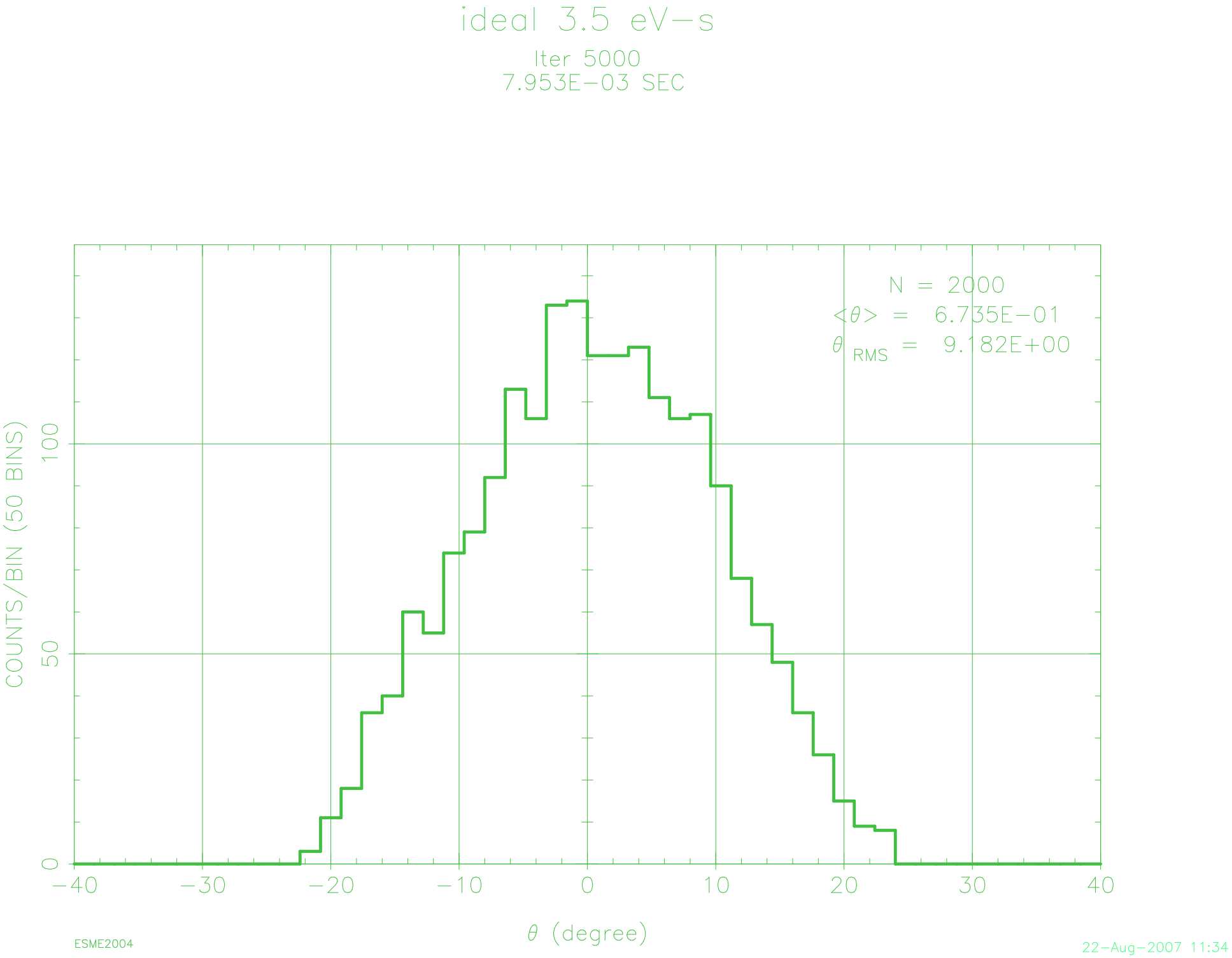
ideal 3.5 eV−s
Iter 5000
7.953E−03 SEC
N = 2000
<θ> = 6.735E−01
θ RMS = 9.182E+00
COUNTS/BIN (50 BINS)
0
50
100
−40
−30
−20
−10
0
10
20
30
40
θ (degree)
ESME2004
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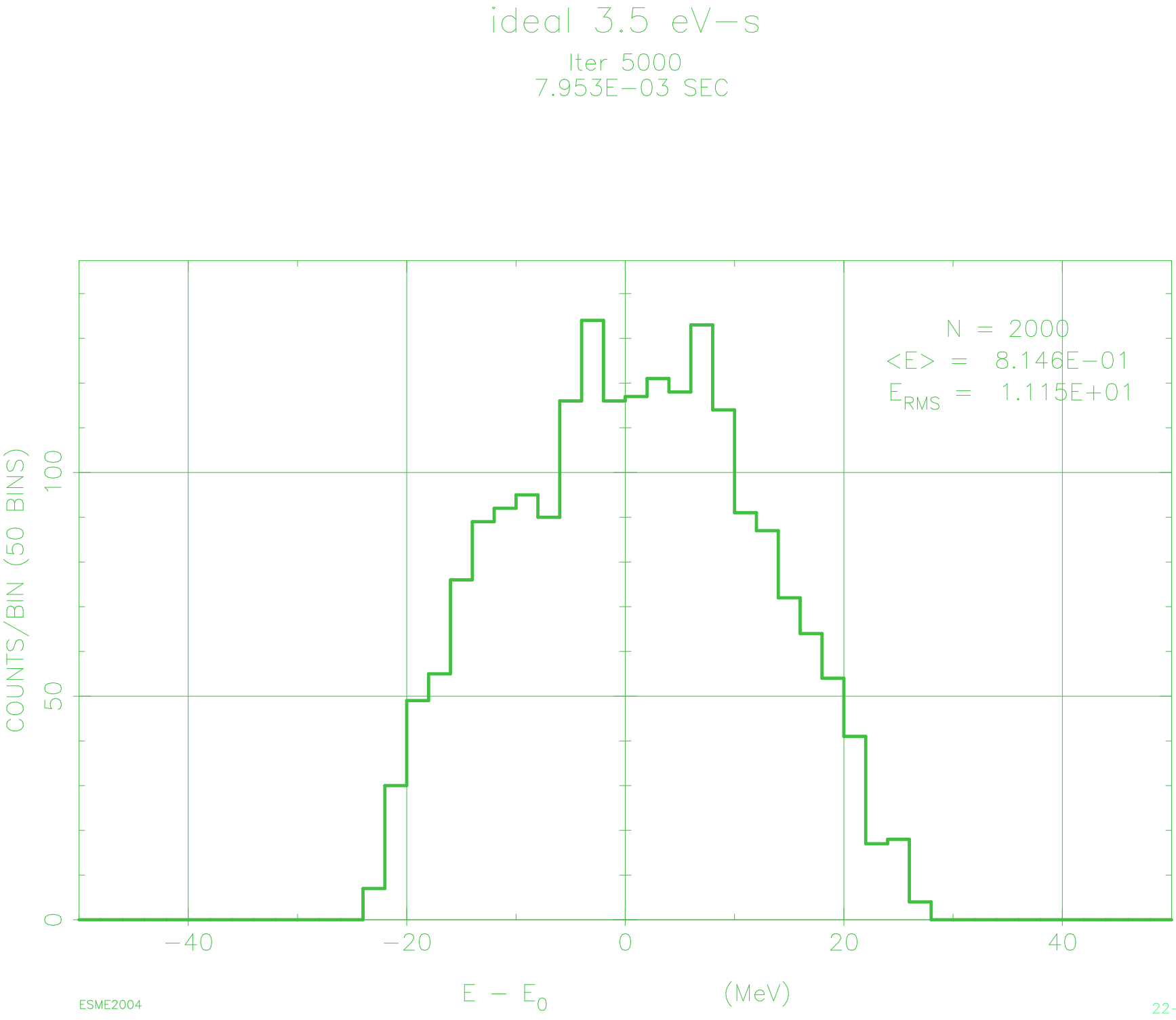
ideal 3.5 eV−s
Iter 5000
7.953E−03 SEC
N = 2000
<E> = 8.146E−01
E_RMS = 1.115E+01
COUNTS/BIN (50 BINS)
0
50
100
−40
−20
0
20
40
E − E_0
(MeV)
ESME2004
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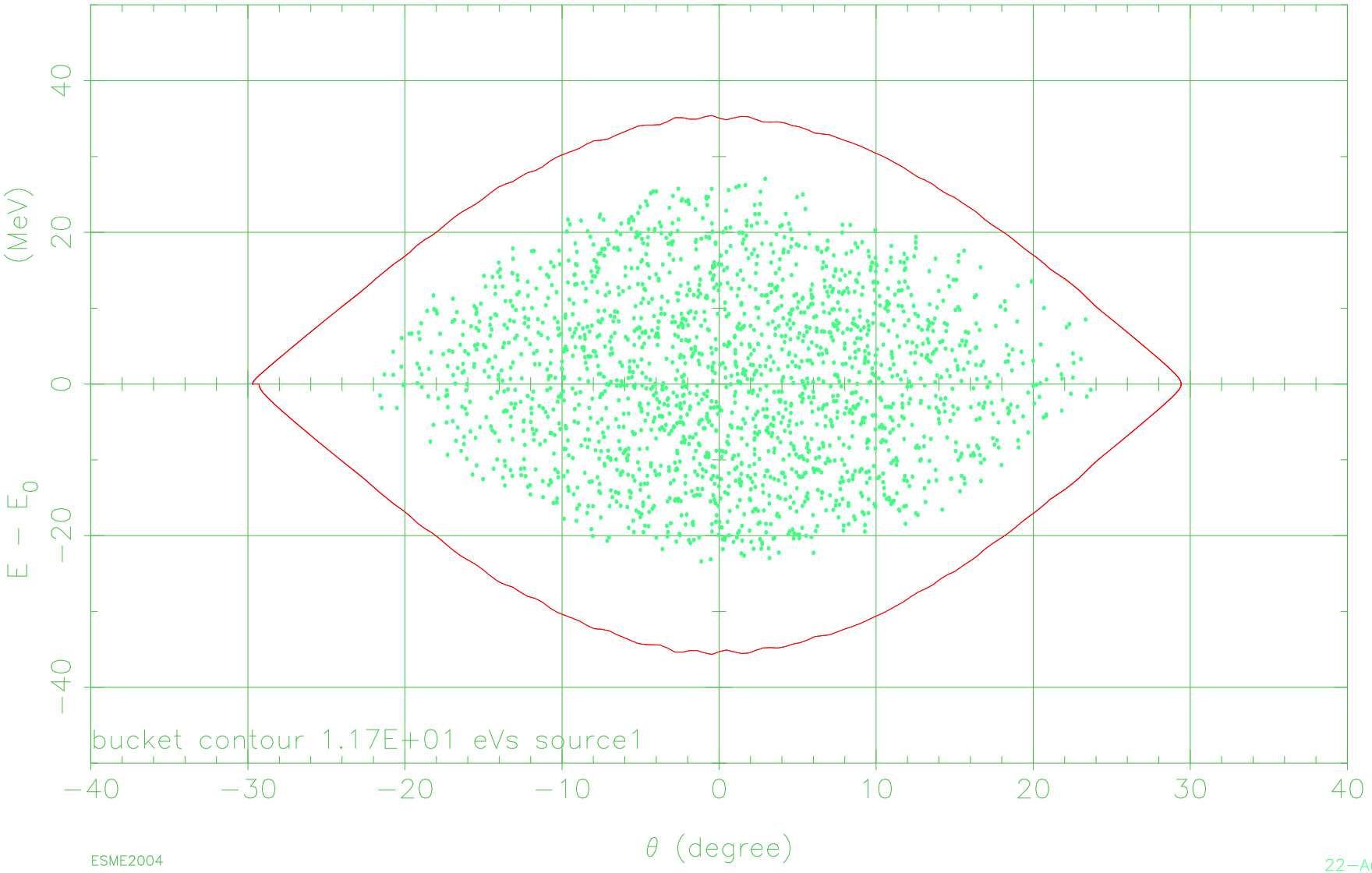
ideal 3.5 eV−s

Iter 5000 7.953E−03 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
3.5545E+01	1.1724E+01	8.9383E+03	6	7.363E−03	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η			
7.0754E−05	5.7005E−13	6.2938E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4201E+00	2000			



ESME2004

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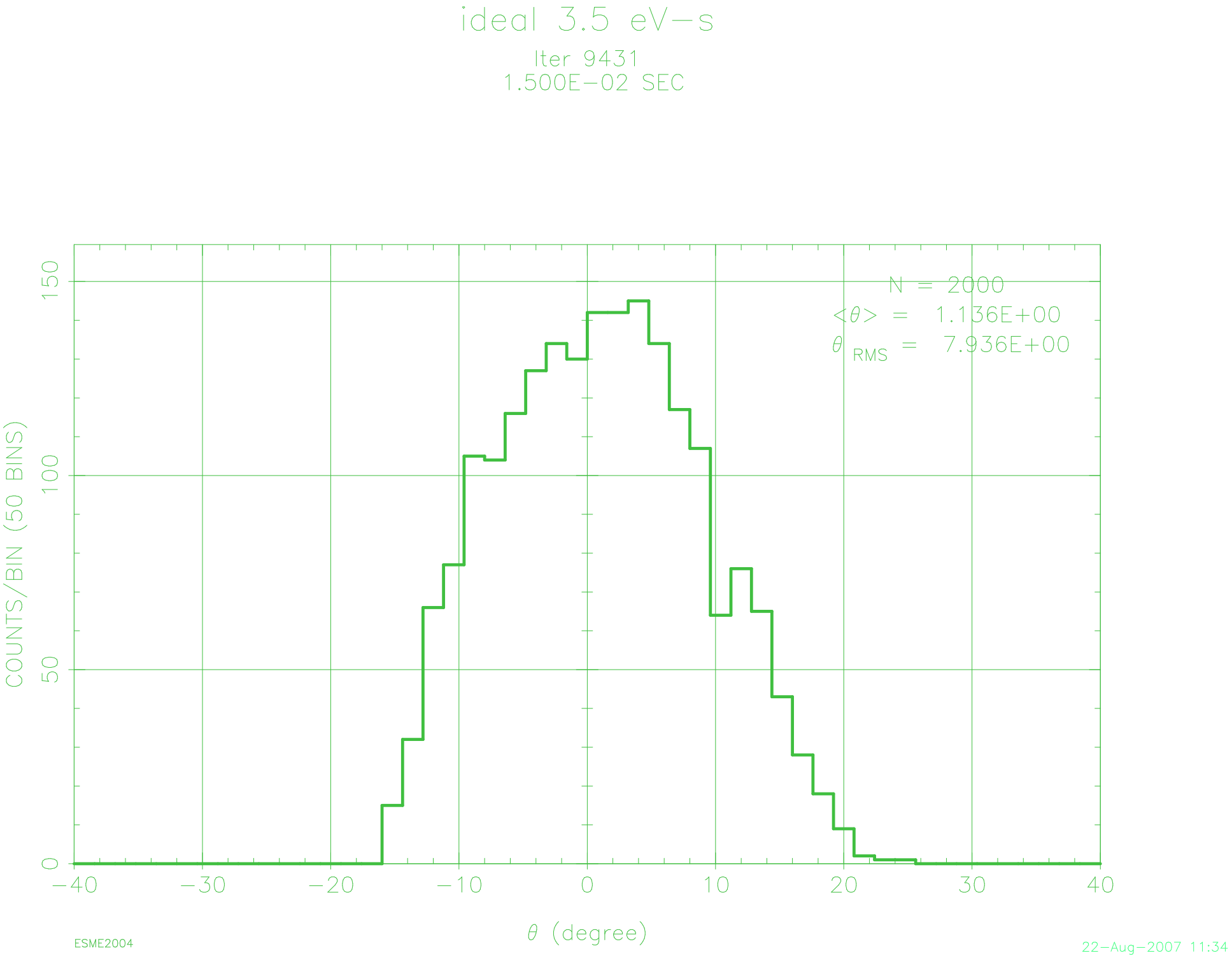
ideal 3.5 eV−s
Iter 9431
1.500E−02 SEC
N = 2000
<θ> = 1.136E+00
θ RMS = 7.936E+00
COUNTS/BIN (50 BINS)
0
50
100
150
−40
−30
−20
−10
0
10
20
30
40
θ (degree)
ESME2004
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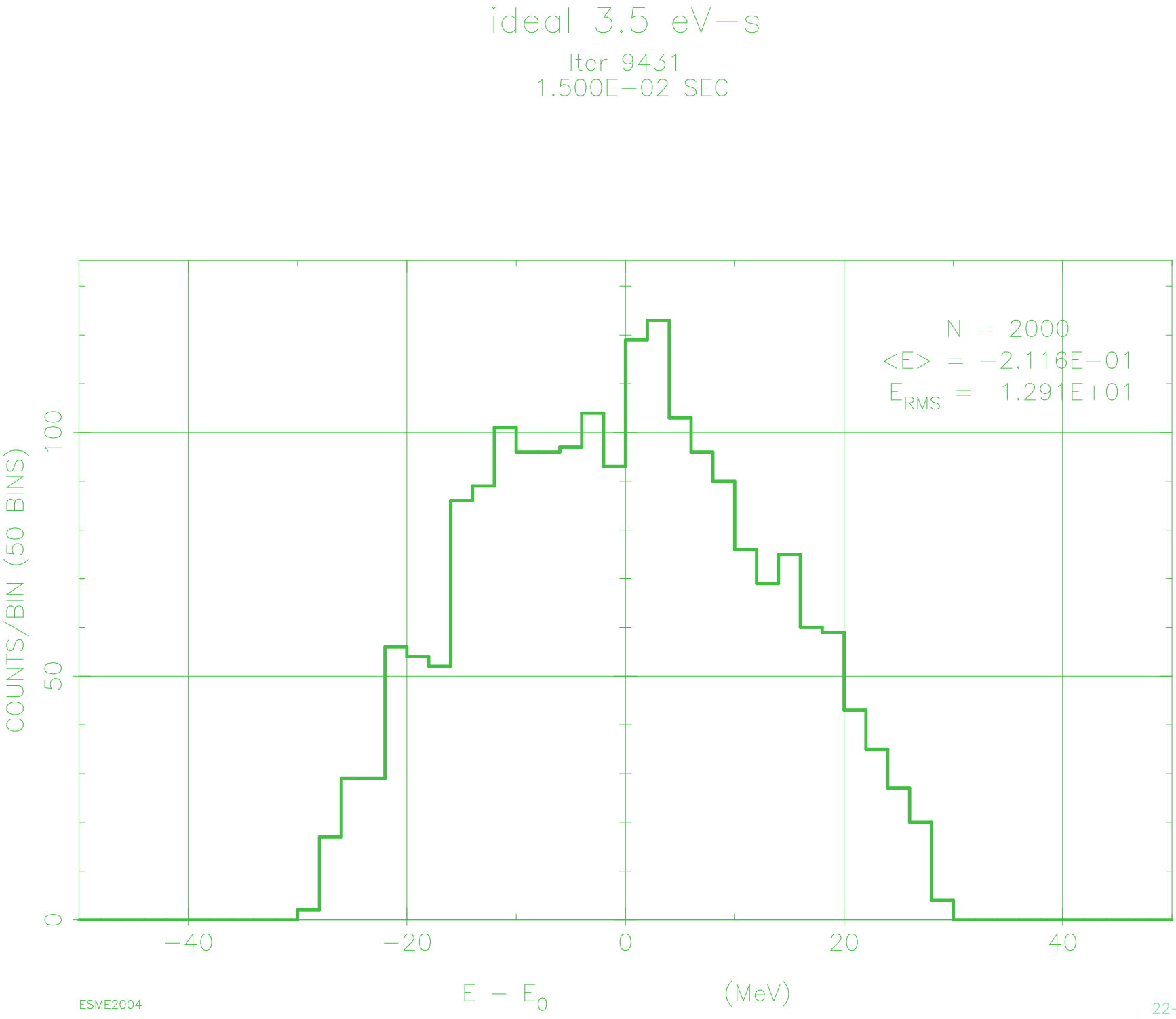
ideal 3.5 eV−s
Iter 9431
1.500E−02 SEC
N = 2000
<E> = −2.116E−01
E_RMS = 1.291E+01
COUNTS/BIN (50 BINS)
0
50
100
−40
−20
0
20
40
E − E0
(MeV)
ESME2004
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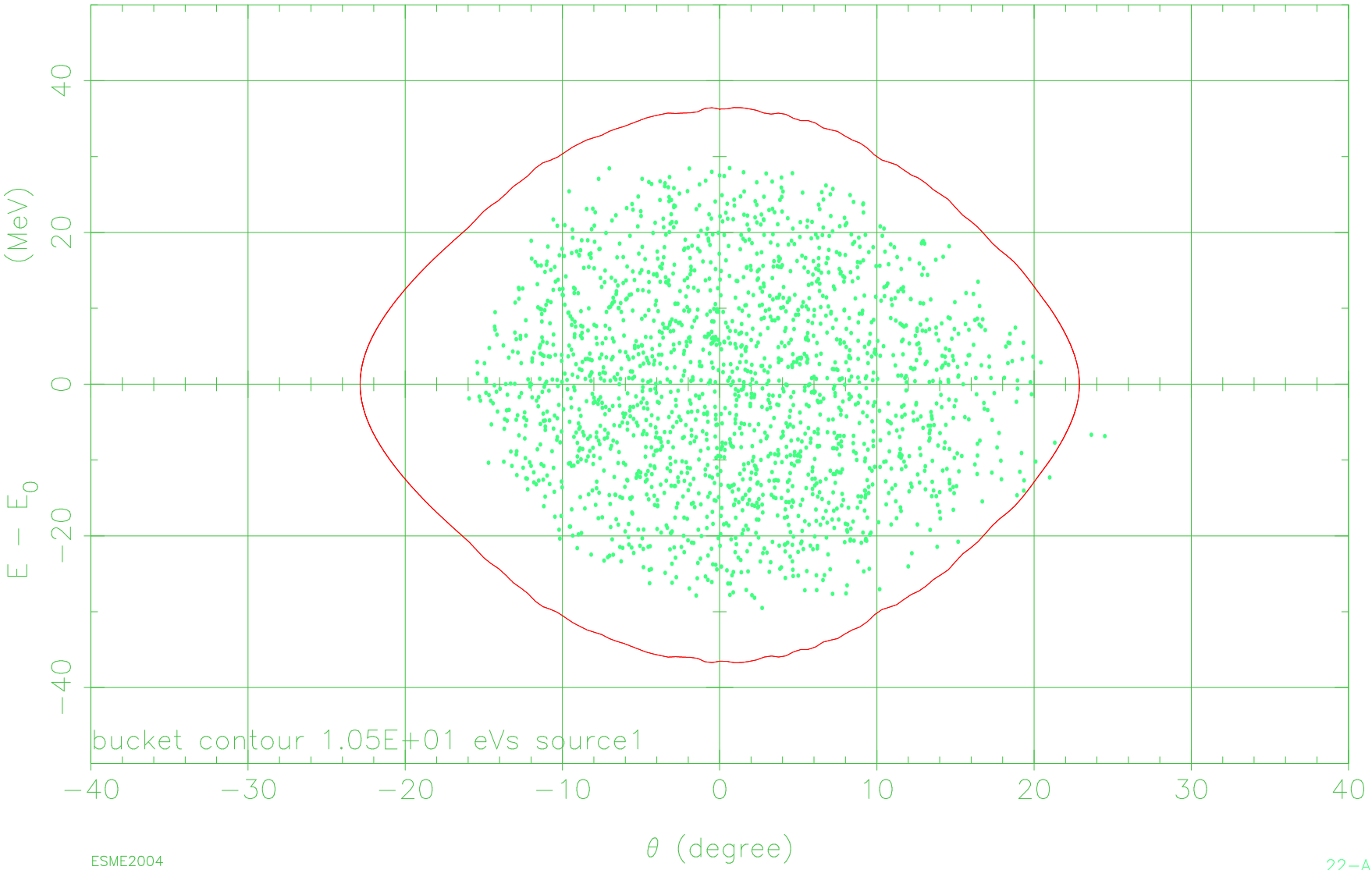
ideal 3.5 eV−s

Iter 9431 1.500E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
3.6589E+01	1.0499E+01	8.9383E+03	6	9.000E−03	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η			
7.8225E−05	6.9678E−13	6.2938E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4207E+00	2000			



ESME2004

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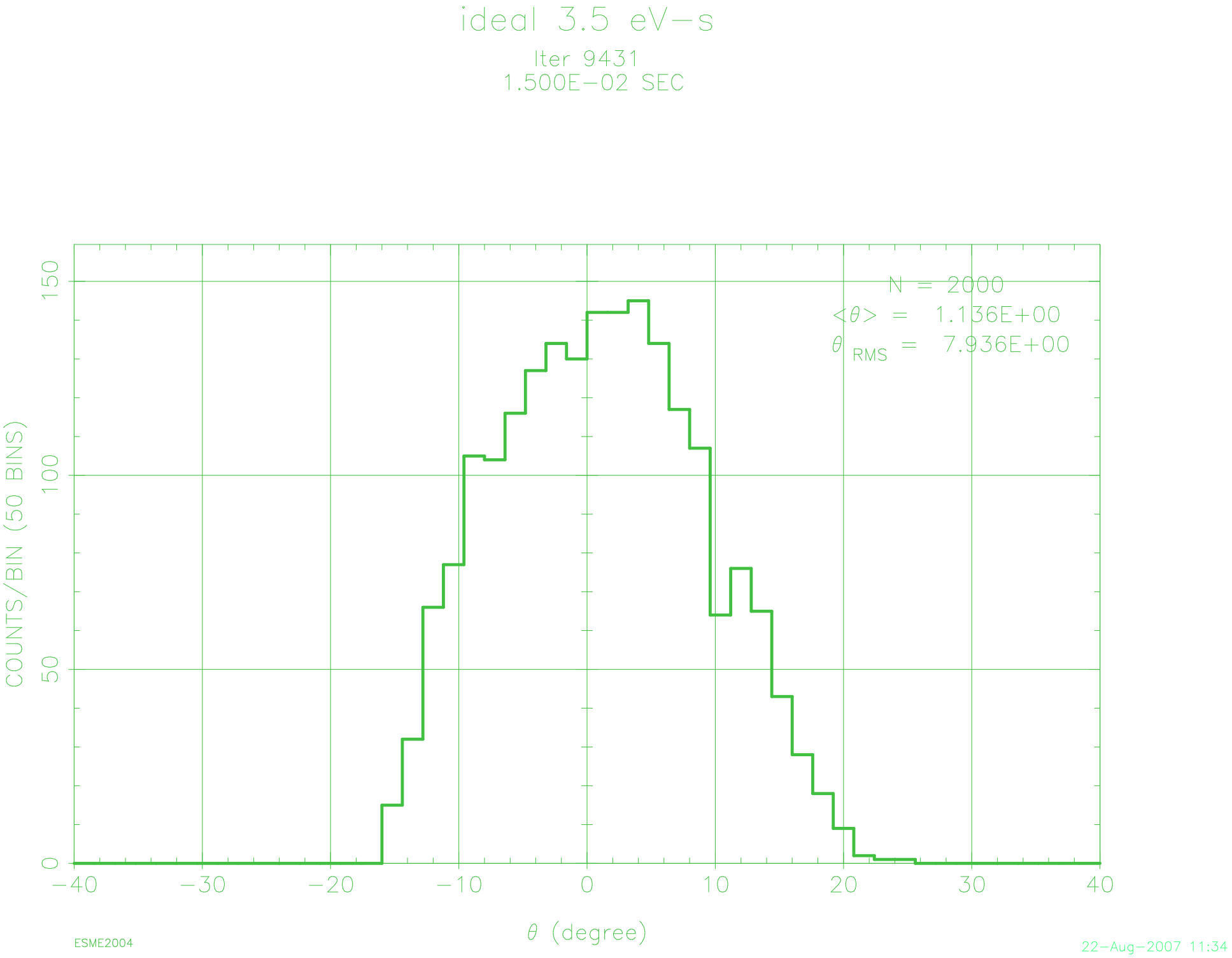
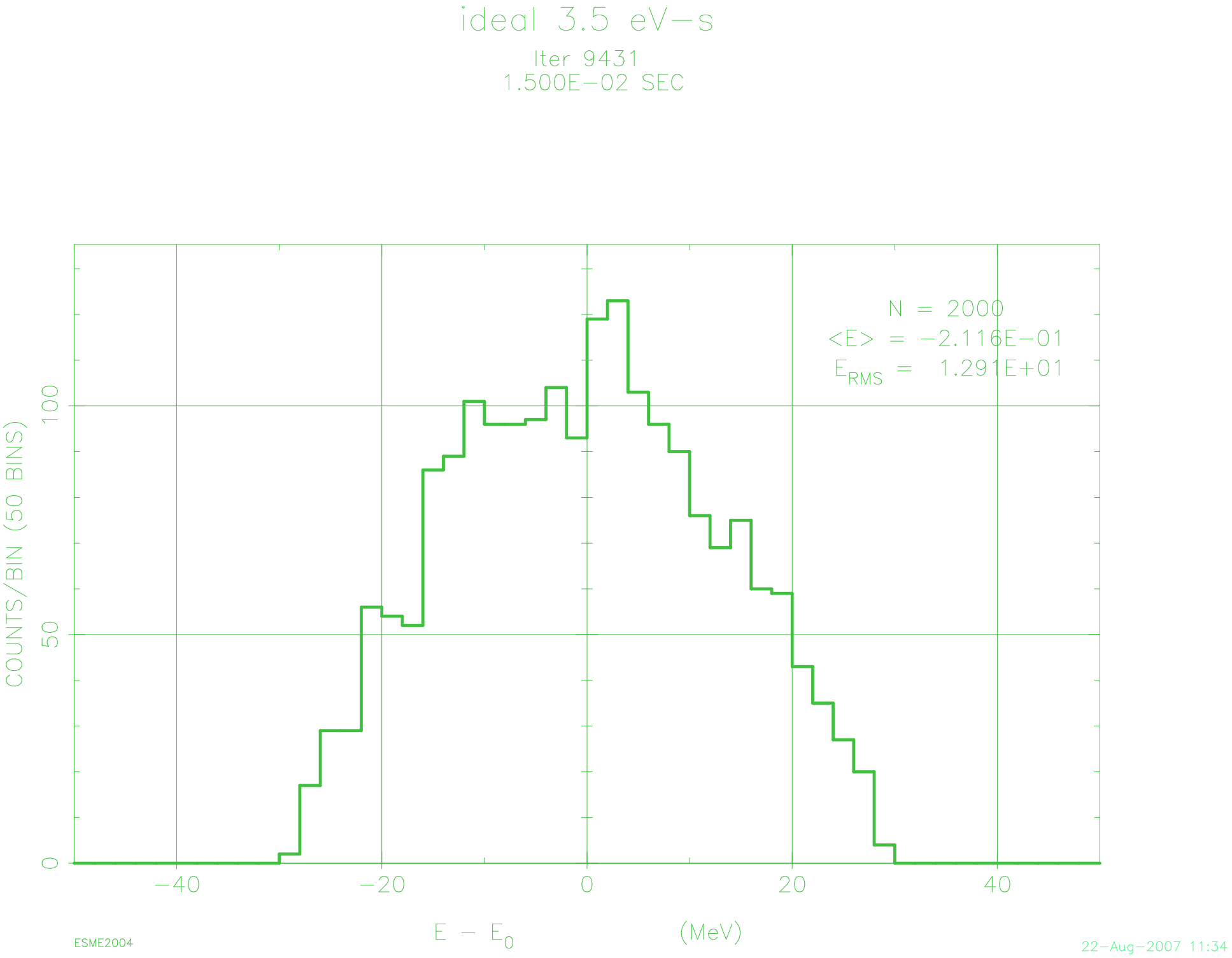
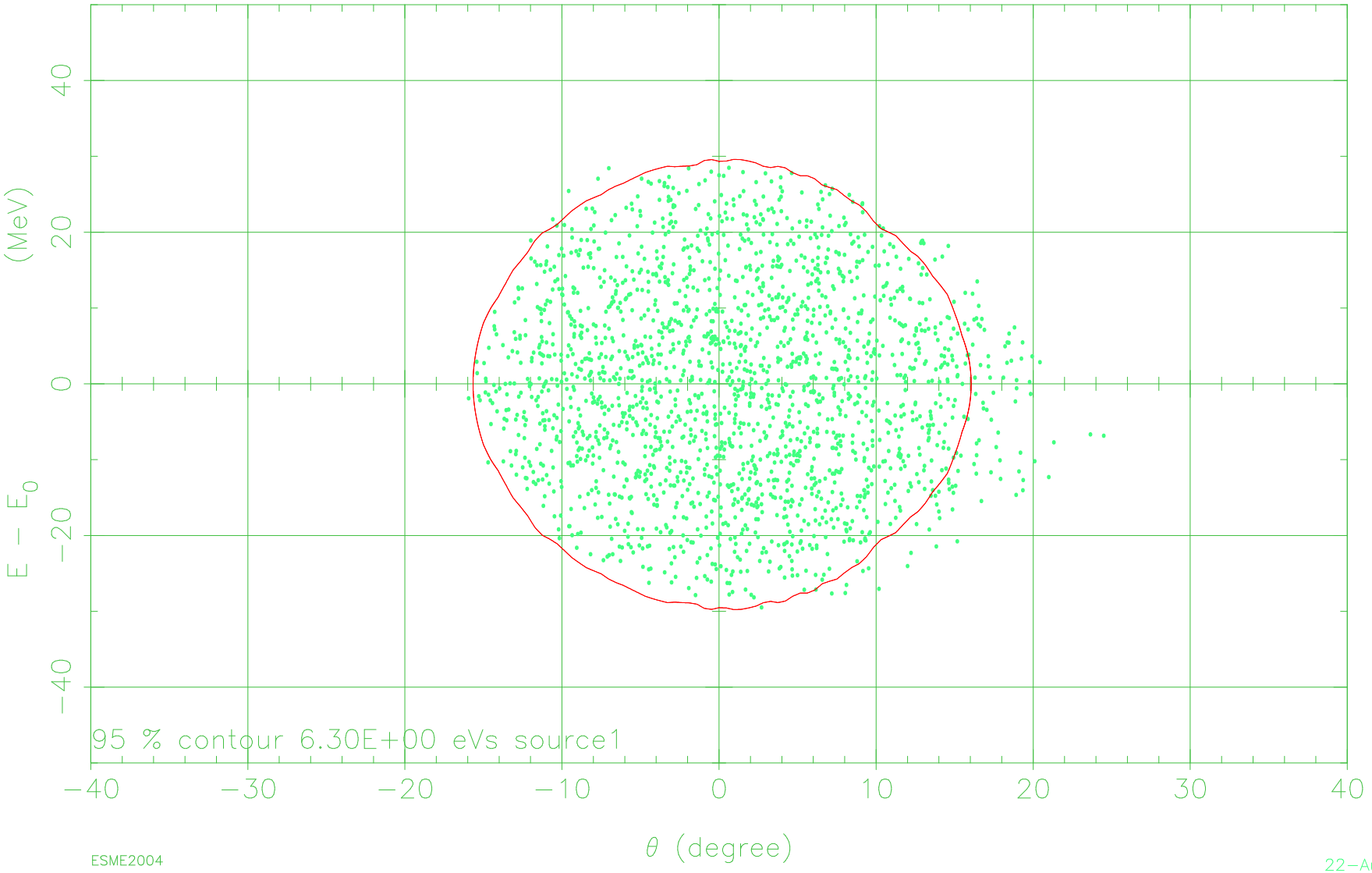

ideal 3.5 eV−s
Iter 9431
1.500E−02 SEC
N = 2000
<θ> = 1.136E+00
θ RMS = 7.936E+00
COUNTS/BIN (50 BINS)
0
50
100
150
−40
−30
−20
−10
0
10
20
30
40
θ (degree)
ESME2004
22−Aug−2007 11:34


ideal 3.5 eV−s
Iter 9431
1.500E−02 SEC
N = 2000
<E> = −2.116E−01
E_RMS = 1.291E+01
COUNTS/BIN (50 BINS)
0
50
100
−40
−20
0
20
40
E − E_0
(MeV)
ESME2004
22−Aug−2007 11:34

ideal 3.5 eV−s

Iter 9431 1.500E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
3.6589E+01	1.0499E+01	8.9383E+03	6	9.000E−03	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η			
7.8225E−05	6.9678E−13	6.2938E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4207E+00	2000			



ESME2004

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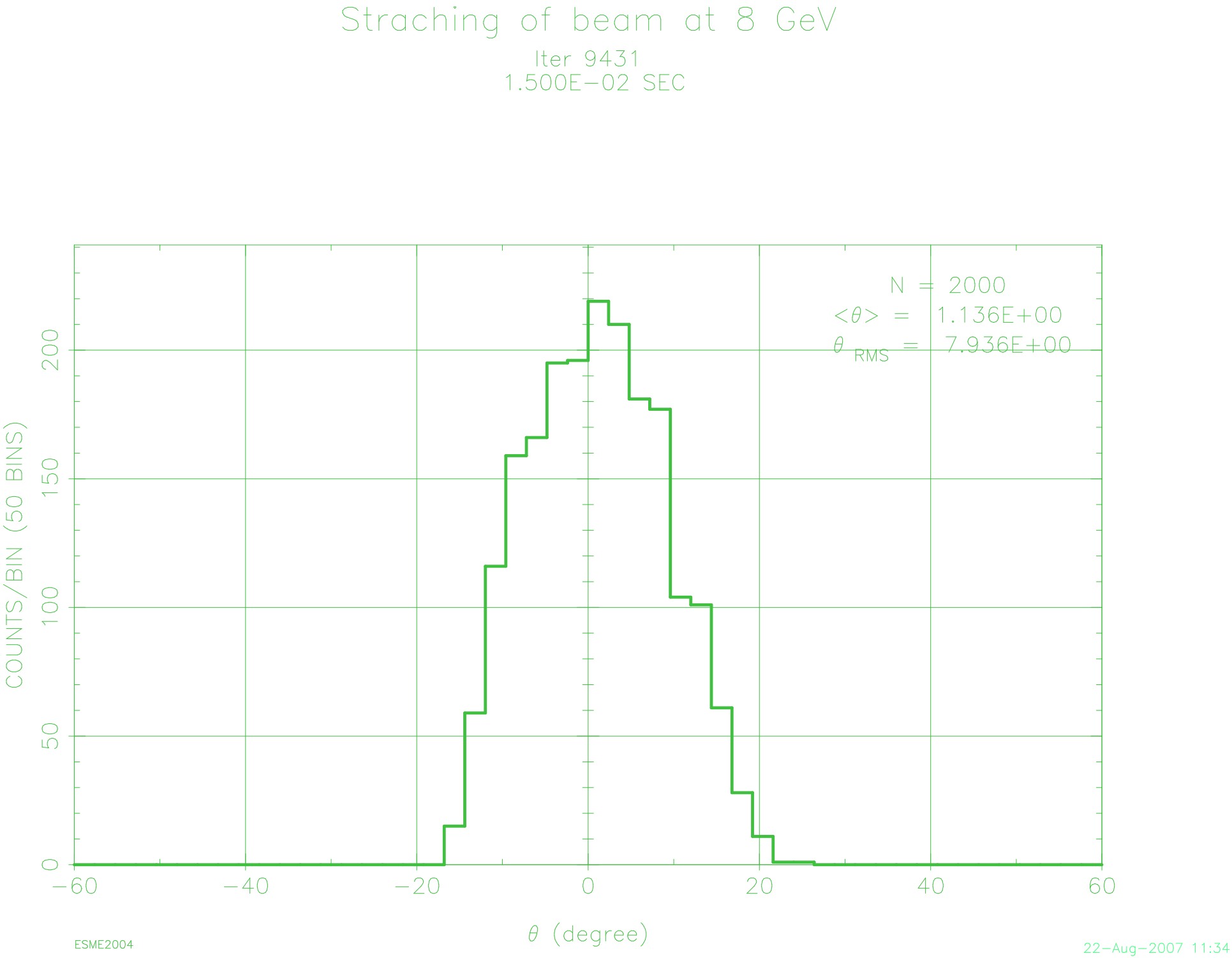
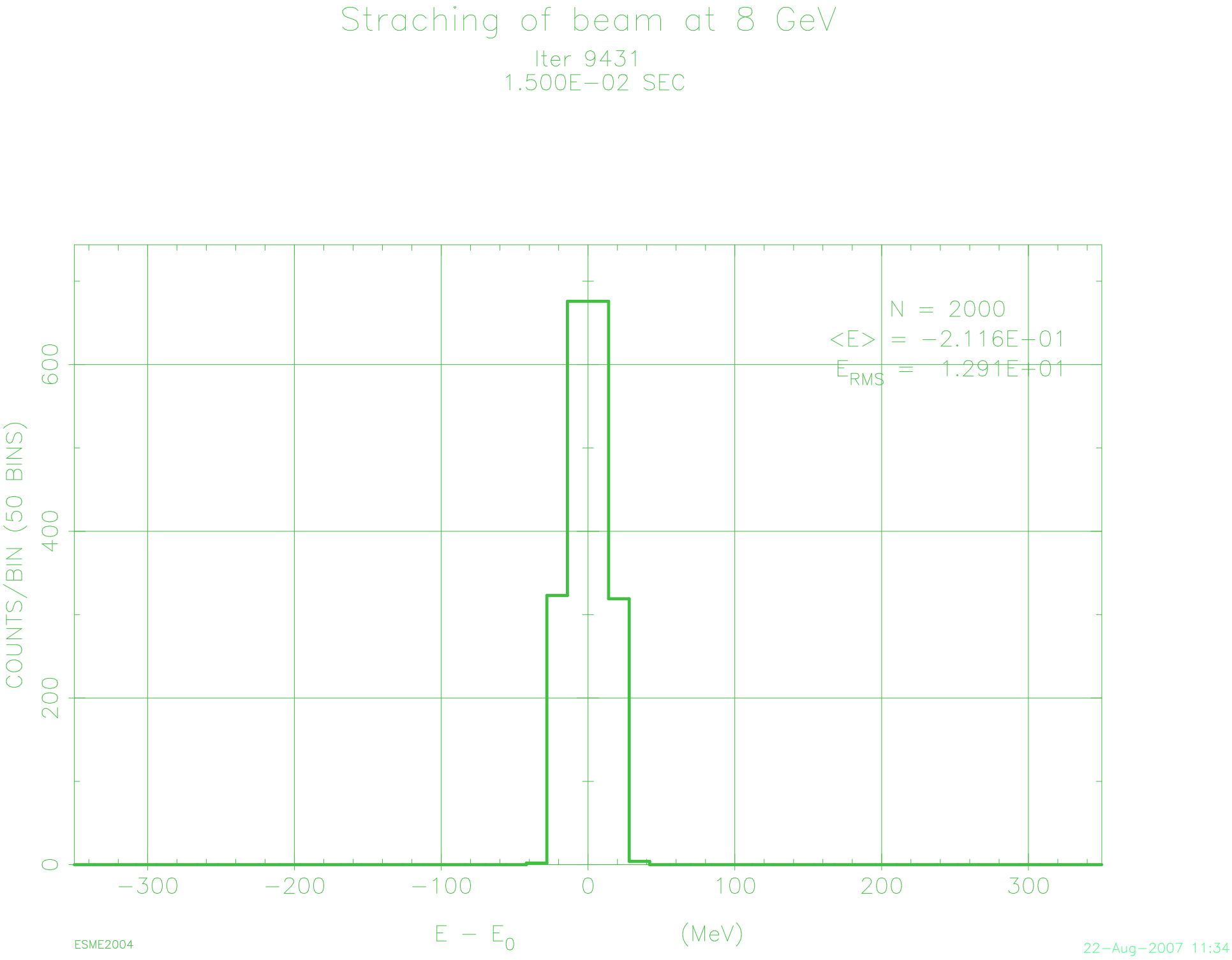
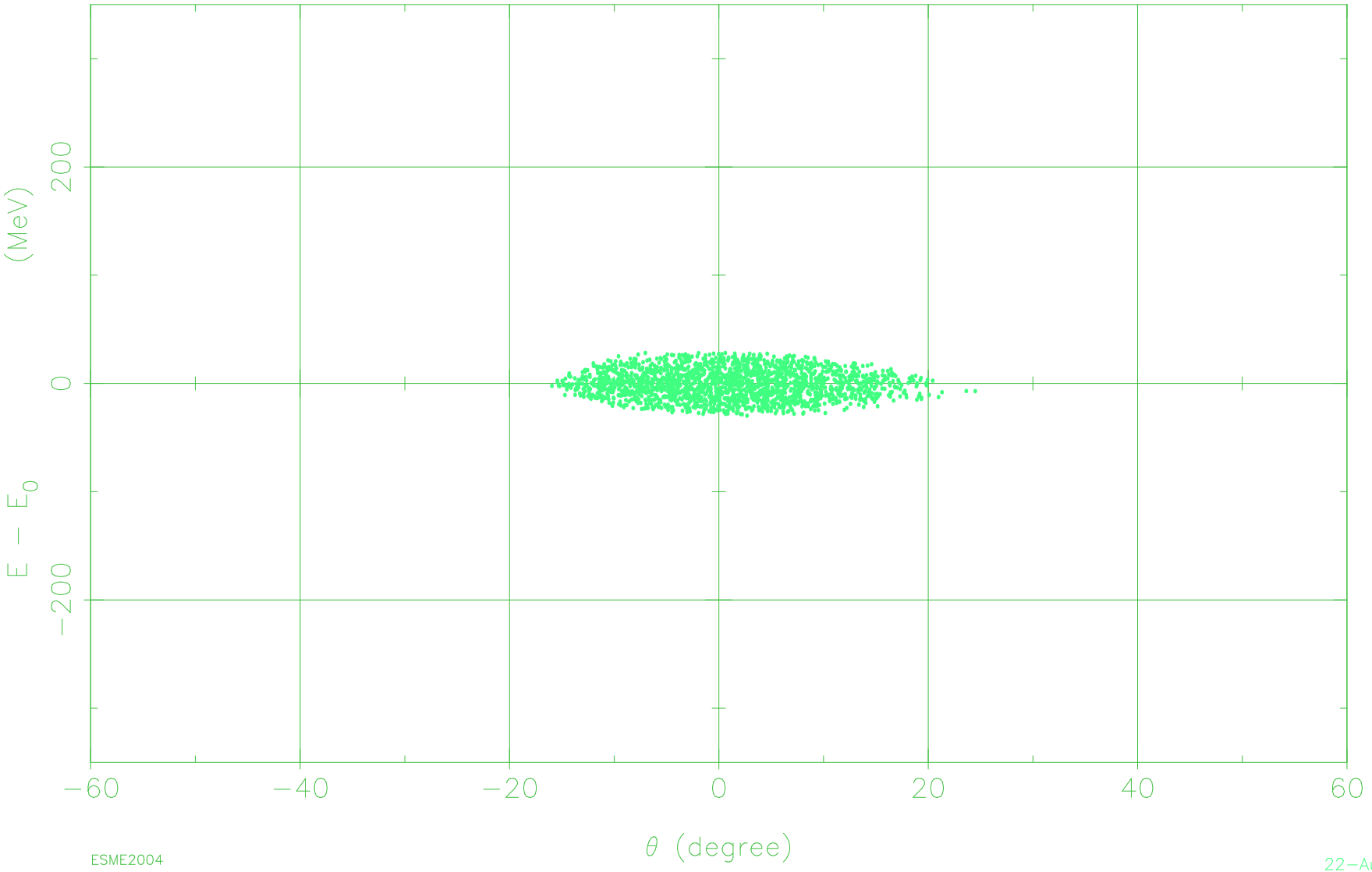

Straching of beam at 8 GeV
Iter 9431
1.500E−02 SEC
N = 2000
<θ> = 1.136E+00
θ RMS = 7.936E+00
COUNTS/BIN (50 BINS)
0
50
100
150
200
−60
−40
−20
0
20
40
60
θ (degree)
ESME2004
22−Aug−2007 11:34


Straching of beam at 8 GeV
Iter 9431
1.500E−02 SEC
N = 2000
<E> = −2.116E−01
E_RMS = 1.291E−01
COUNTS/BIN (50 BINS)
0
200
400
600
−300
−200
−100
0
100
200
300
E − E0
(MeV)
ESME2004
22−Aug−2007 11:34

Straching of beam at 8 GeV

Iter 9431 1.500E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
0.0000E+00	0.0000E+00	8.9383E+03	3	4.000E−01	0.000E+00
ν_S (turn^{-1})	pdot (MeV s^{-1})	η	6	6.000E−02	1.800E+02
3.7758E−04	0.0000E+00	6.5988E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4207E+00	2000			



ESME2004

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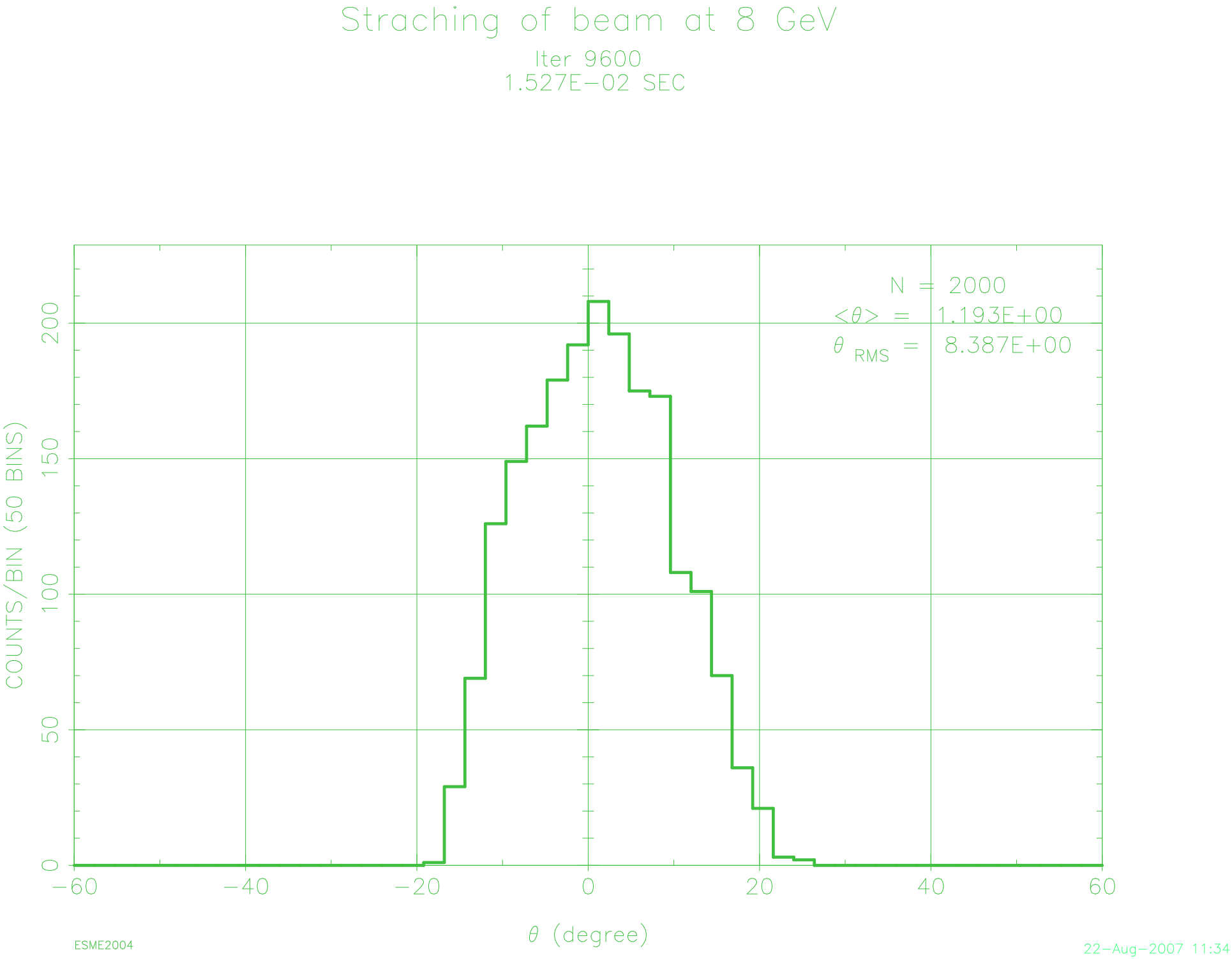
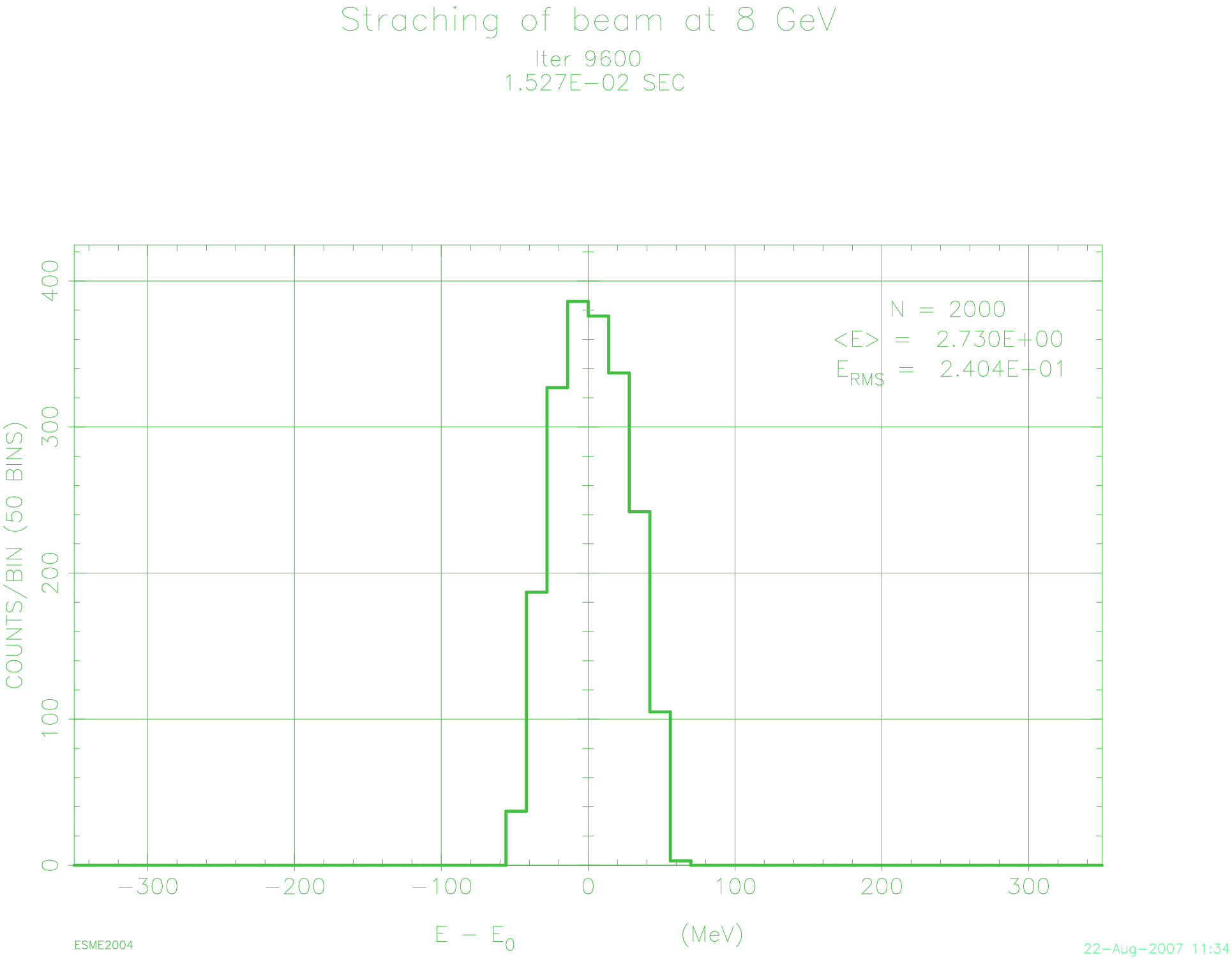
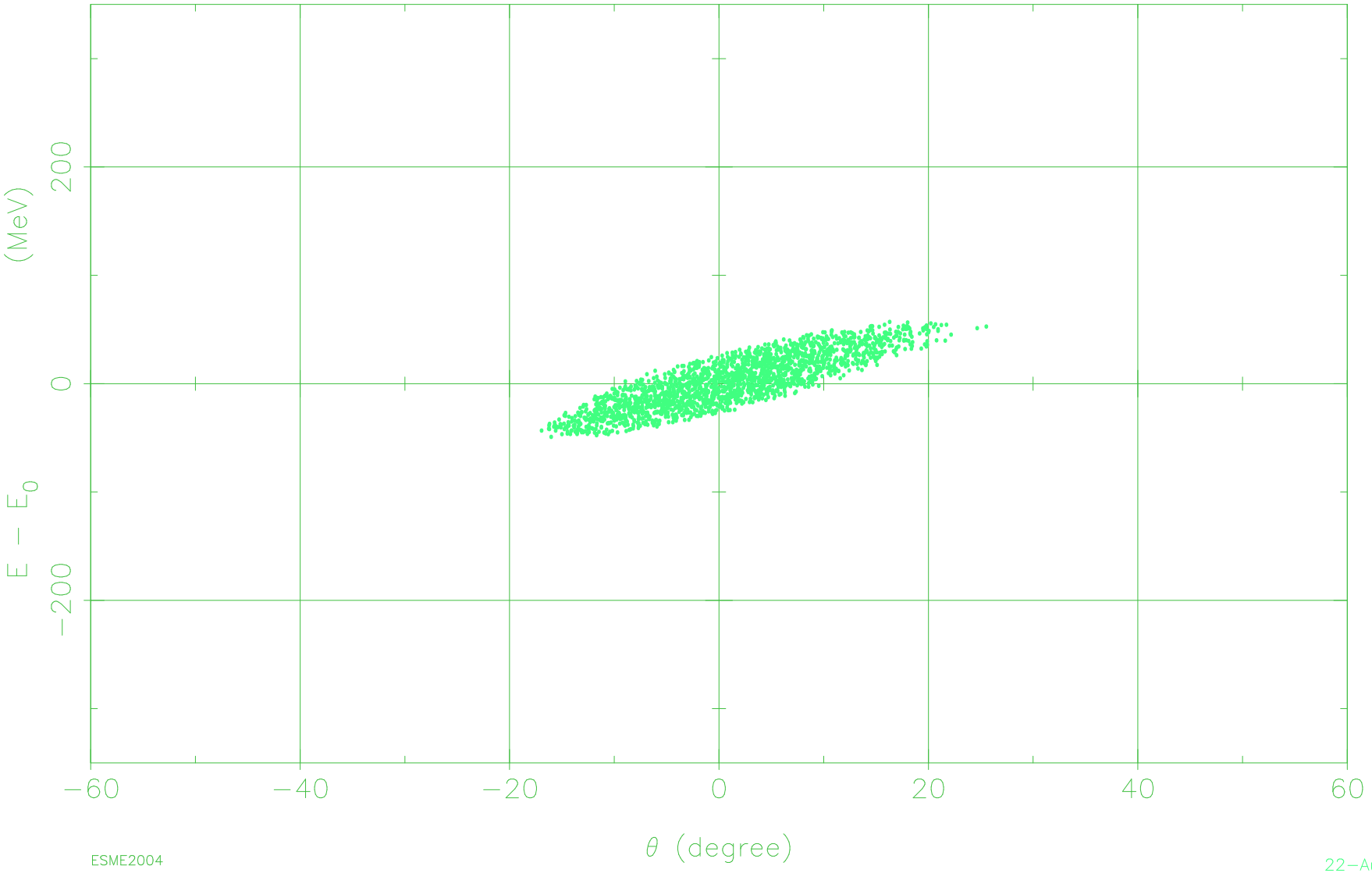

Straching of beam at 8 GeV
Iter 9600
1.527E−02 SEC
N = 2000
<θ> = 1.193E+00
θ RMS = 8.387E+00
COUNTS/BIN (50 BINS)
0
50
100
150
200
−60
−40
−20
0
20
40
60
θ (degree)
ESME2004
22−Aug−2007 11:34


Straching of beam at 8 GeV
Iter 9600
1.527E−02 SEC
N = 2000
<E> = 2.730E+00
E_RMS = 2.404E−01
COUNTS/BIN (50 BINS)
0
100
200
300
400
−300
−200
−100
0
100
200
300
E − E0
(MeV)
ESME2004
22−Aug−2007 11:34

Straching of beam at 8 GeV

Iter 9600 1.527E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
0.0000E+00	0.0000E+00	8.9383E+03	3	4.000E−01	0.000E+00
ν_S (turn^{-1})	pdot (MeV s^{-1})	η	6	6.000E−02	1.800E+02
3.7758E−04	4.6452E−12	6.5988E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4214E+00	2000			



ESME2004

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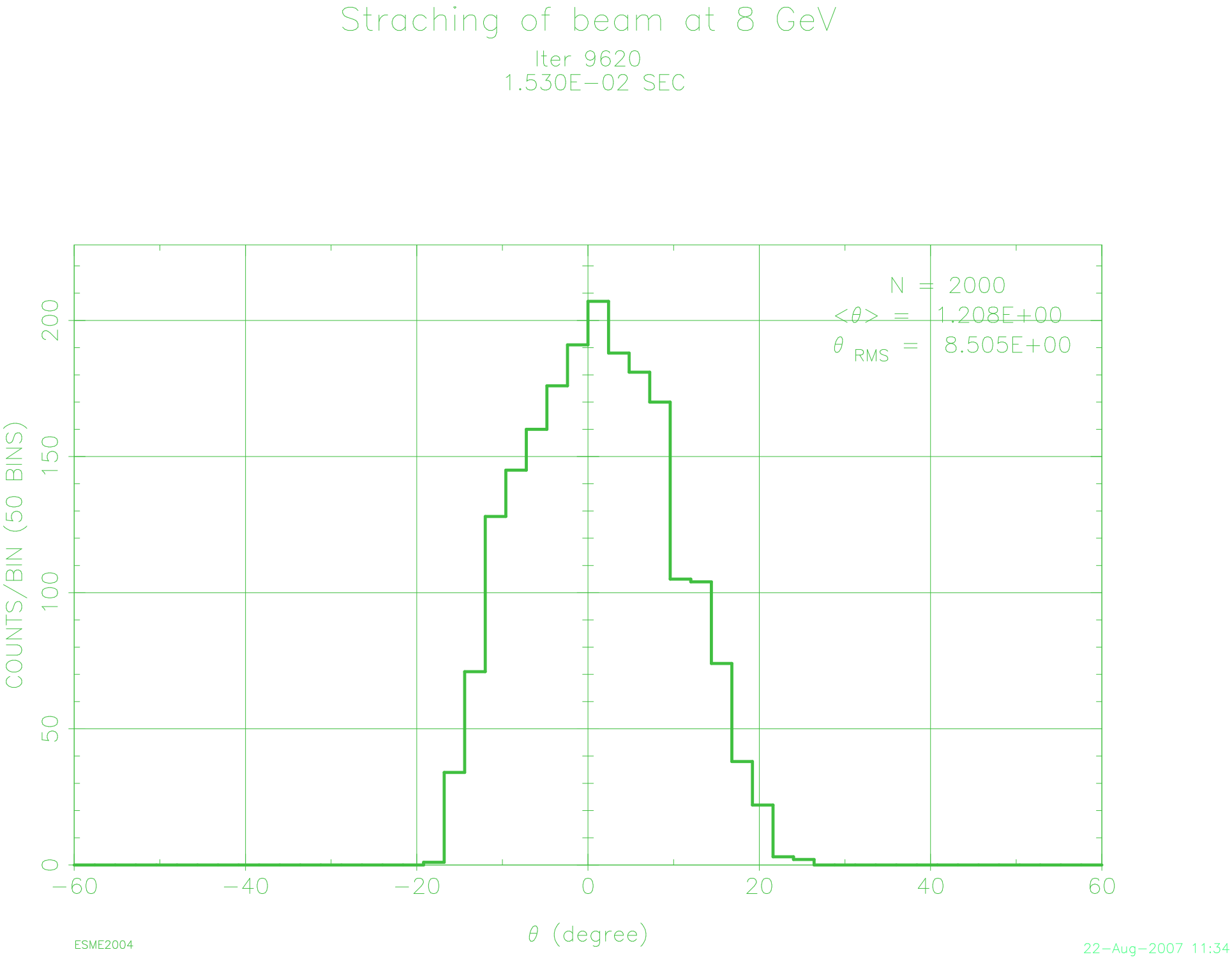
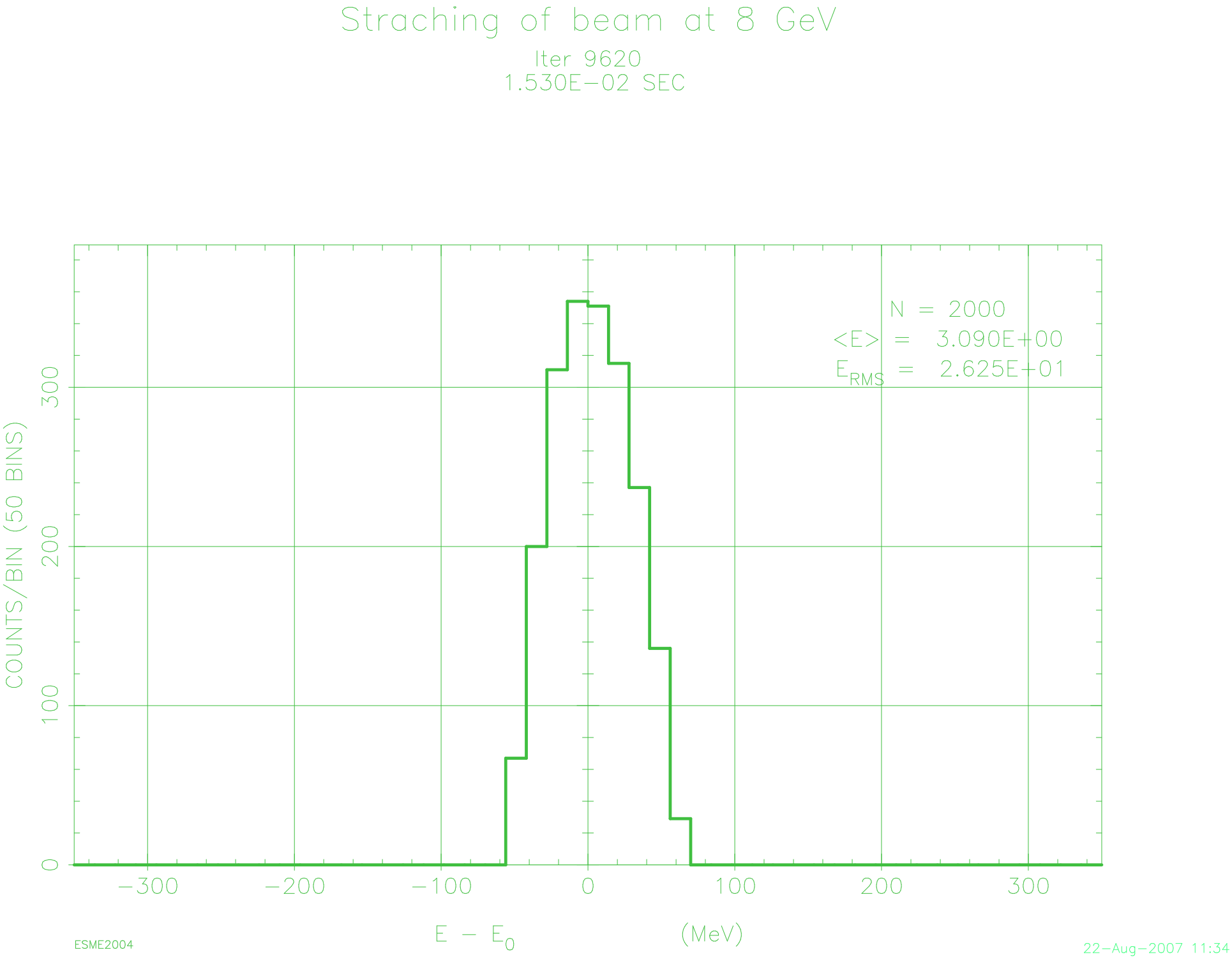
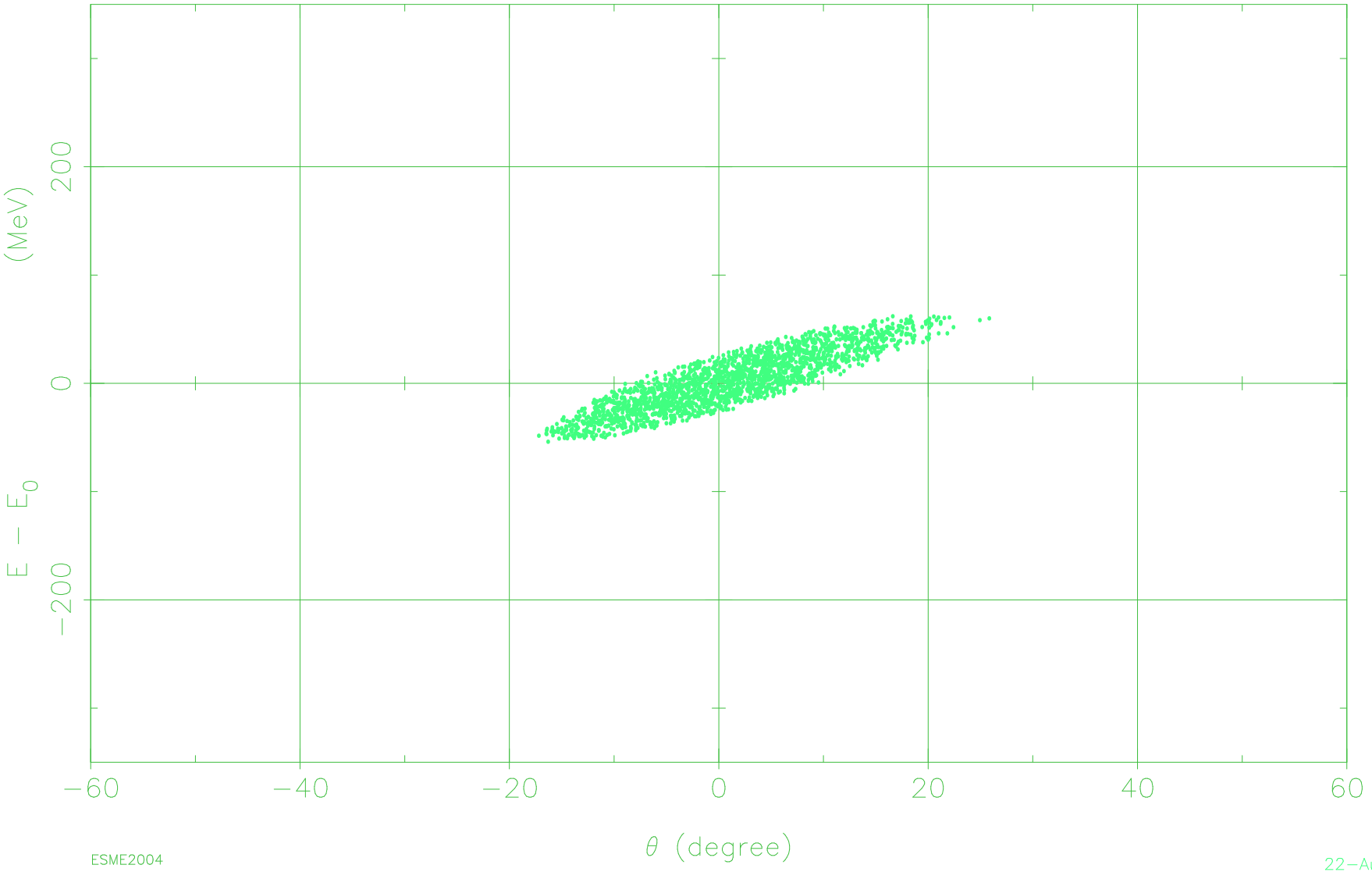

Straching of beam at 8 GeV
Iter 9620
1.530E−02 SEC
N = 2000
<θ> = 1.208E+00
θ RMS = 8.505E+00
COUNTS/BIN (50 BINS)
0
50
100
150
200
−60
−40
−20
0
20
40
60
θ (degree)
ESME2004
22−Aug−2007 11:34


Straching of beam at 8 GeV
Iter 9620
1.530E−02 SEC
N = 2000
<E> = 3.090E+00
E_RMS = 2.625E+01
COUNTS/BIN (50 BINS)
0
100
200
300
−300
−200
−100
0
100
200
300
E − E0
(MeV)
ESME2004
22−Aug−2007 11:34

Straching of beam at 8 GeV

Iter 9620 1.530E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
0.0000E+00	0.0000E+00	8.9383E+03	3	4.000E−01	0.000E+00
ν_S (turn^{-1})	pdot (MeV s^{-1})	η	6	6.000E−02	1.800E+02
3.7758E−04	4.6452E−12	6.5988E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4215E+00	2000			



ESME2004

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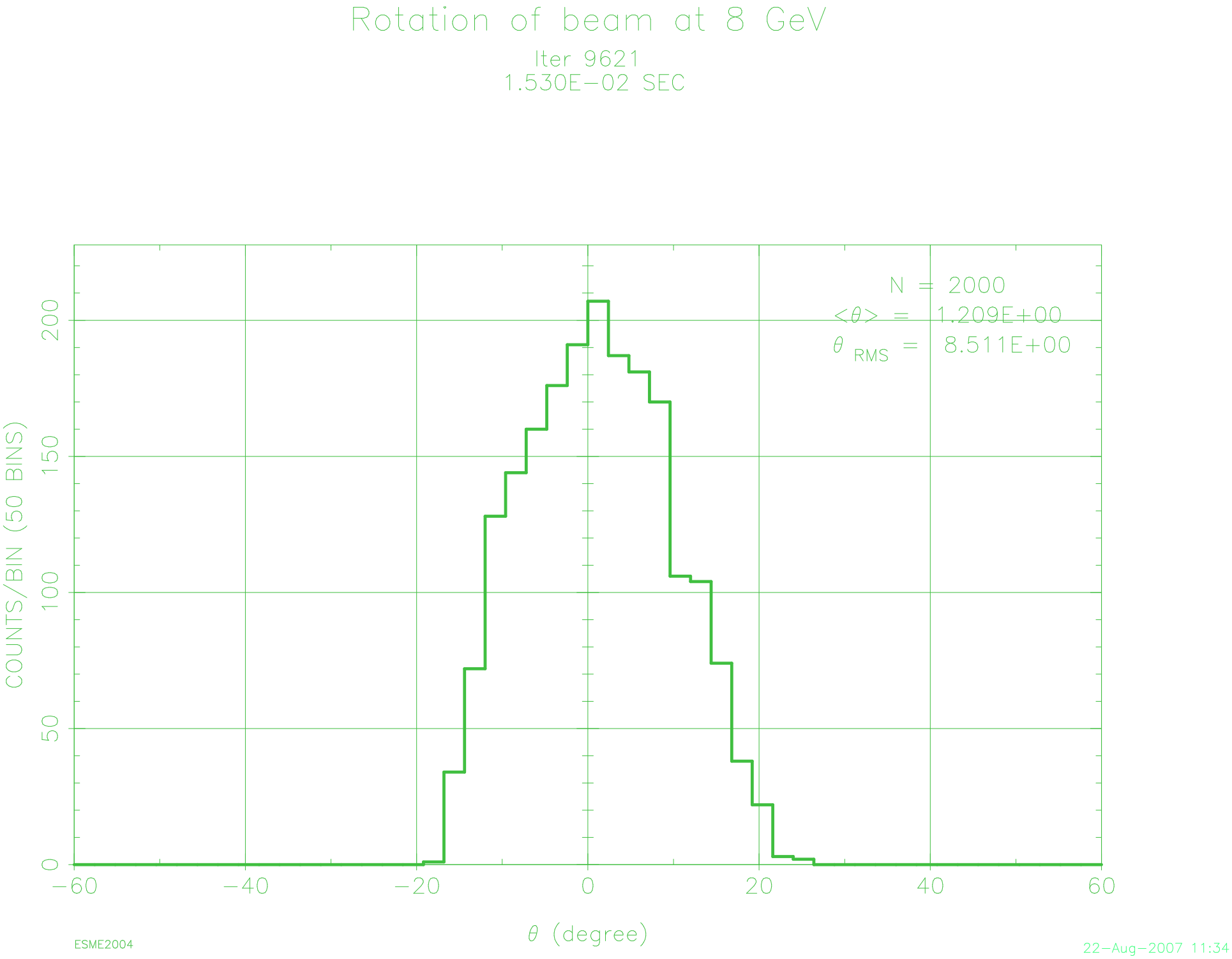
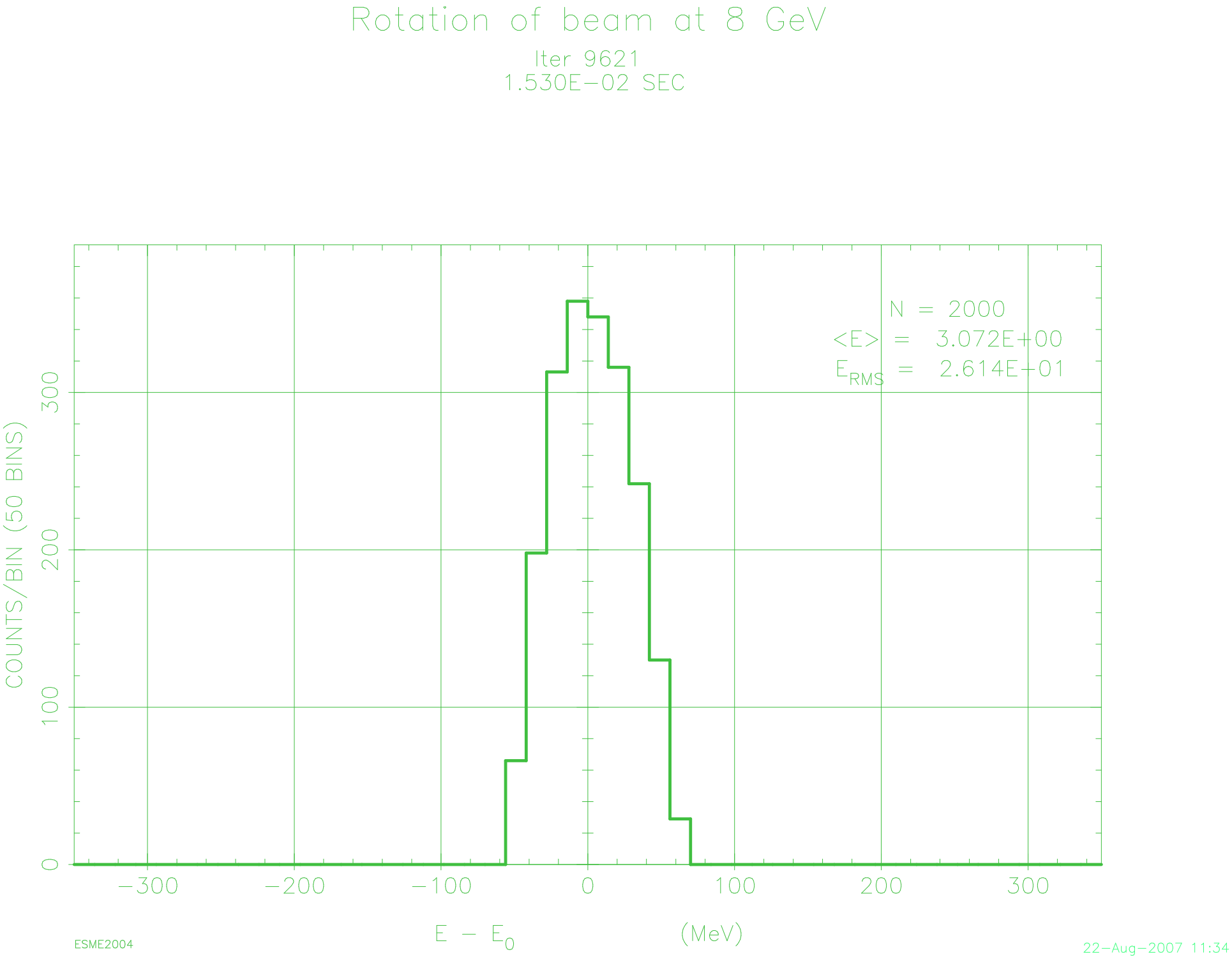
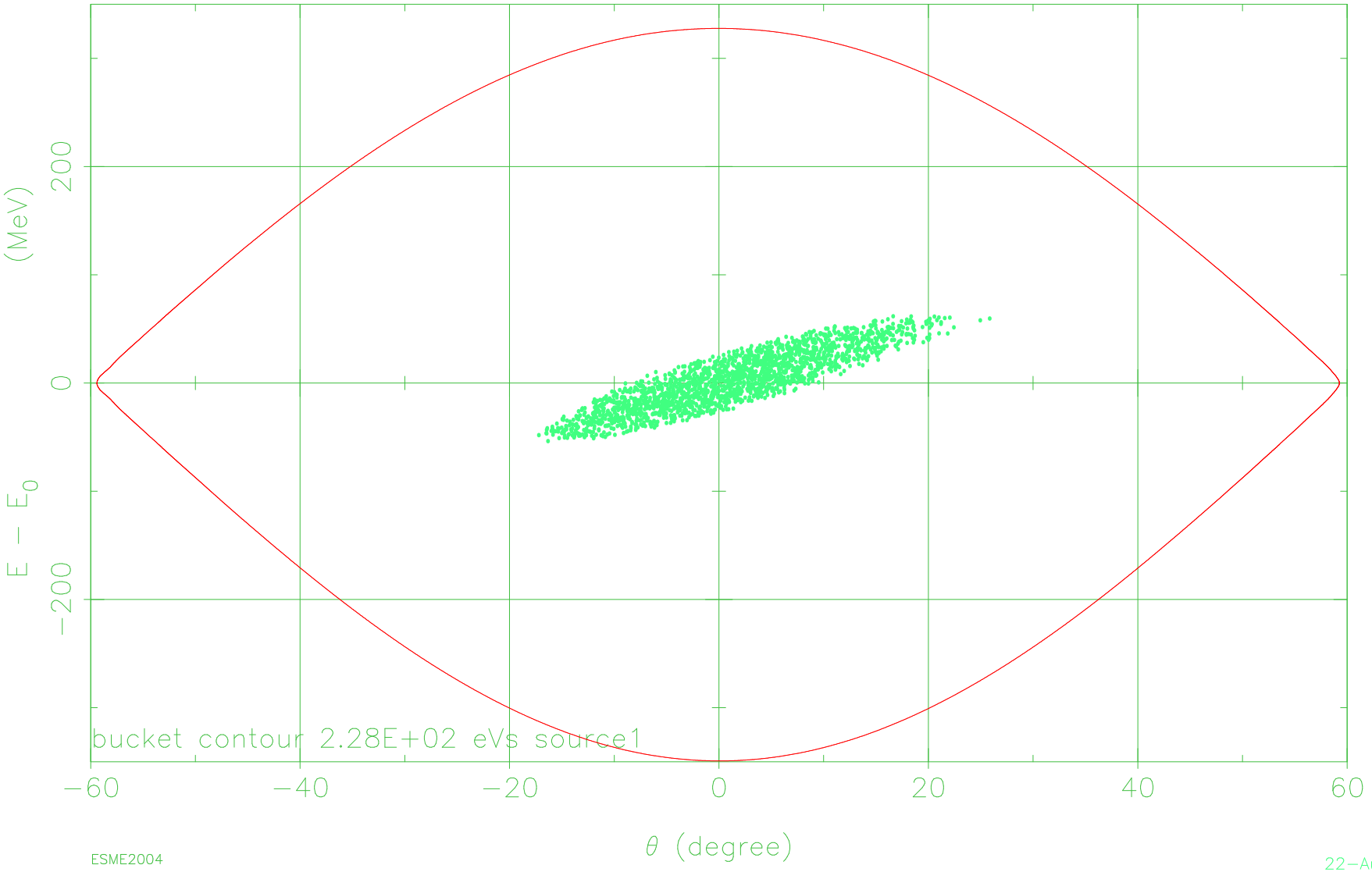

Rotation of beam at 8 GeV
Iter 9621
1.530E−02 SEC
N = 2000
<θ> = 1.209E+00
θ RMS = 8.511E+00
COUNTS/BIN (50 BINS)
0
50
100
150
200
−60
−40
−20
0
20
40
60
θ (degree)
ESME2004
22−Aug−2007 11:34


Rotation of beam at 8 GeV
Iter 9621
1.530E−02 SEC
N = 2000
<E> = 3.072E+00
E_RMS = 2.614E−01
COUNTS/BIN (50 BINS)
0
100
200
300
−300
−200
−100
0
100
200
300
E − E0
(MeV)
ESME2004
22−Aug−2007 11:34

Rotation of beam at 8 GeV

Iter 9621 1.530E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
3.3843E+02	2.2774E+02	8.9383E+03	3	4.000E−01	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η	6	6.000E−02	0.000E+00
3.7758E−04	3.0968E−11	6.5988E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4215E+00	2000			



ESME2004

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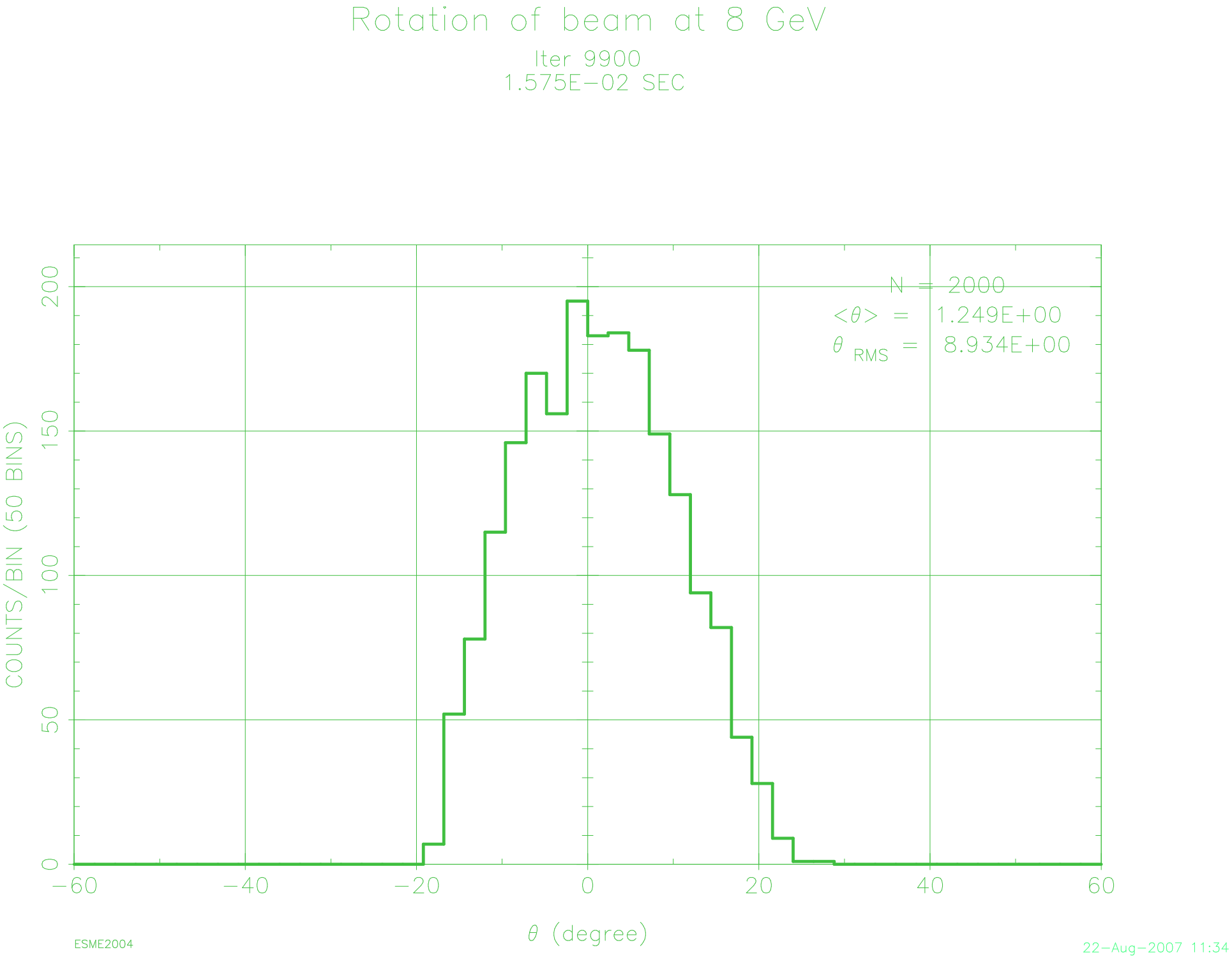
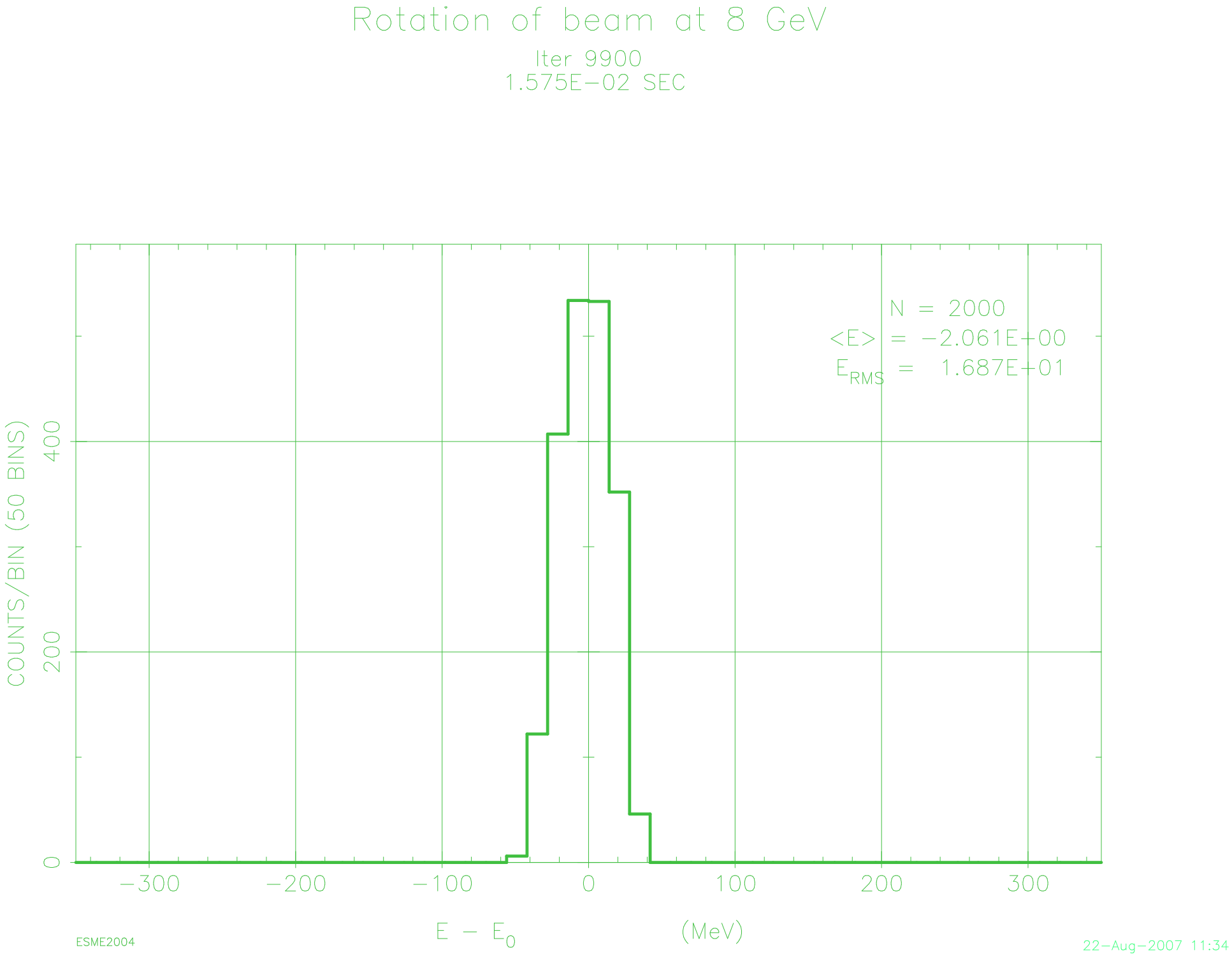
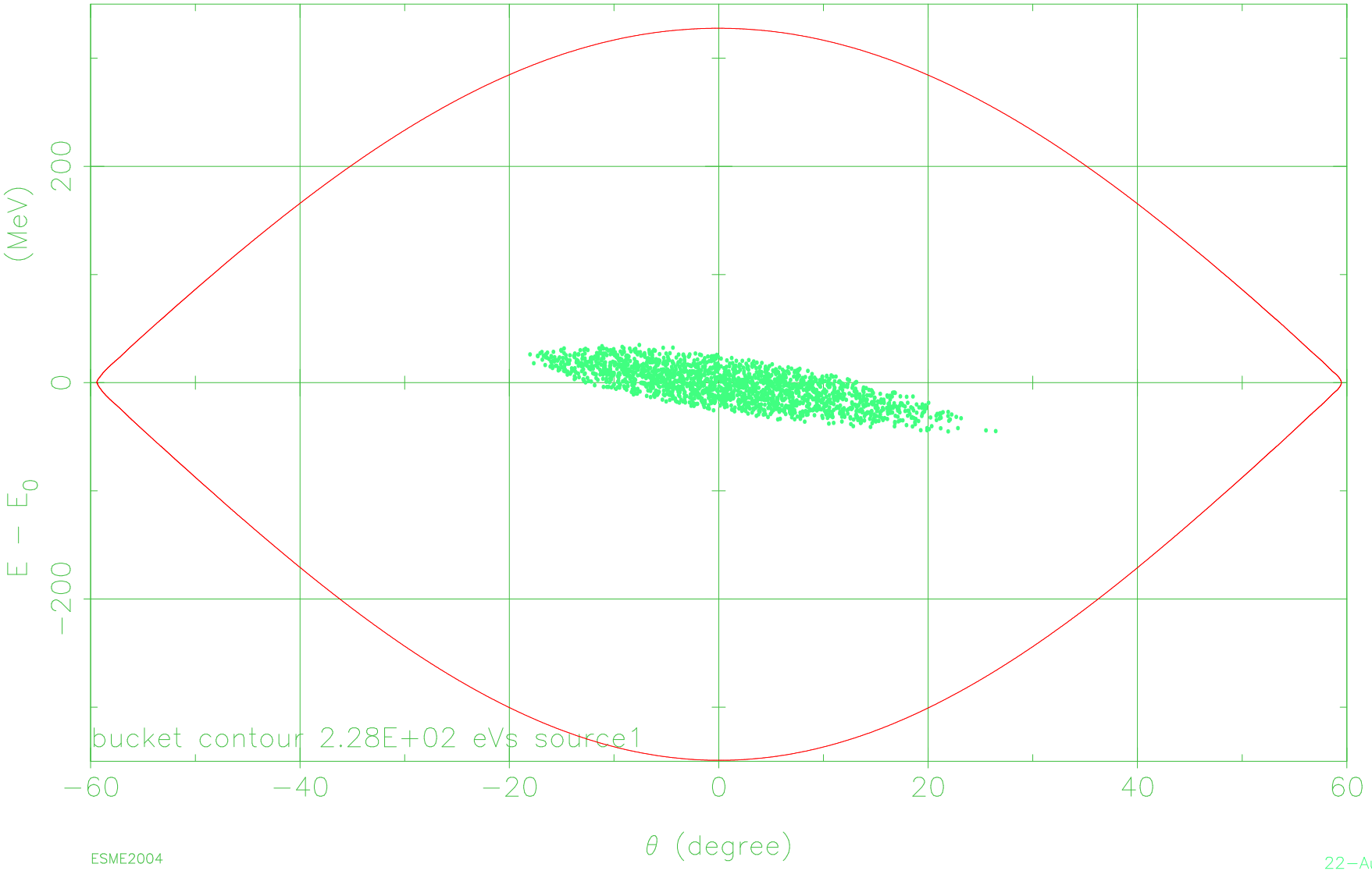

Rotation of beam at 8 GeV
Iter 9900
1.575E−02 SEC
N = 2000
<θ> = 1.249E+00
θ RMS = 8.934E+00
COUNTS/BIN (50 BINS)
0
50
100
150
200
−60
−40
−20
0
20
40
60
θ (degree)
ESME2004
22−Aug−2007 11:34


Rotation of beam at 8 GeV
Iter 9900
1.575E−02 SEC
N = 2000
<E> = −2.061E+00
E_RMS = 1.687E+01
COUNTS/BIN (50 BINS)
0
200
400
−300
−200
−100
0
100
200
300
E − E0
(MeV)
ESME2004
22−Aug−2007 11:34

Rotation of beam at 8 GeV

Iter 9900 1.575E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
3.3841E+02	2.2779E+02	8.9383E+03	3	4.000E−01	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η	6	6.000E−02	0.000E+00
3.7758E−04	3.0968E−11	6.5988E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4216E+00	2000			



ESME2004

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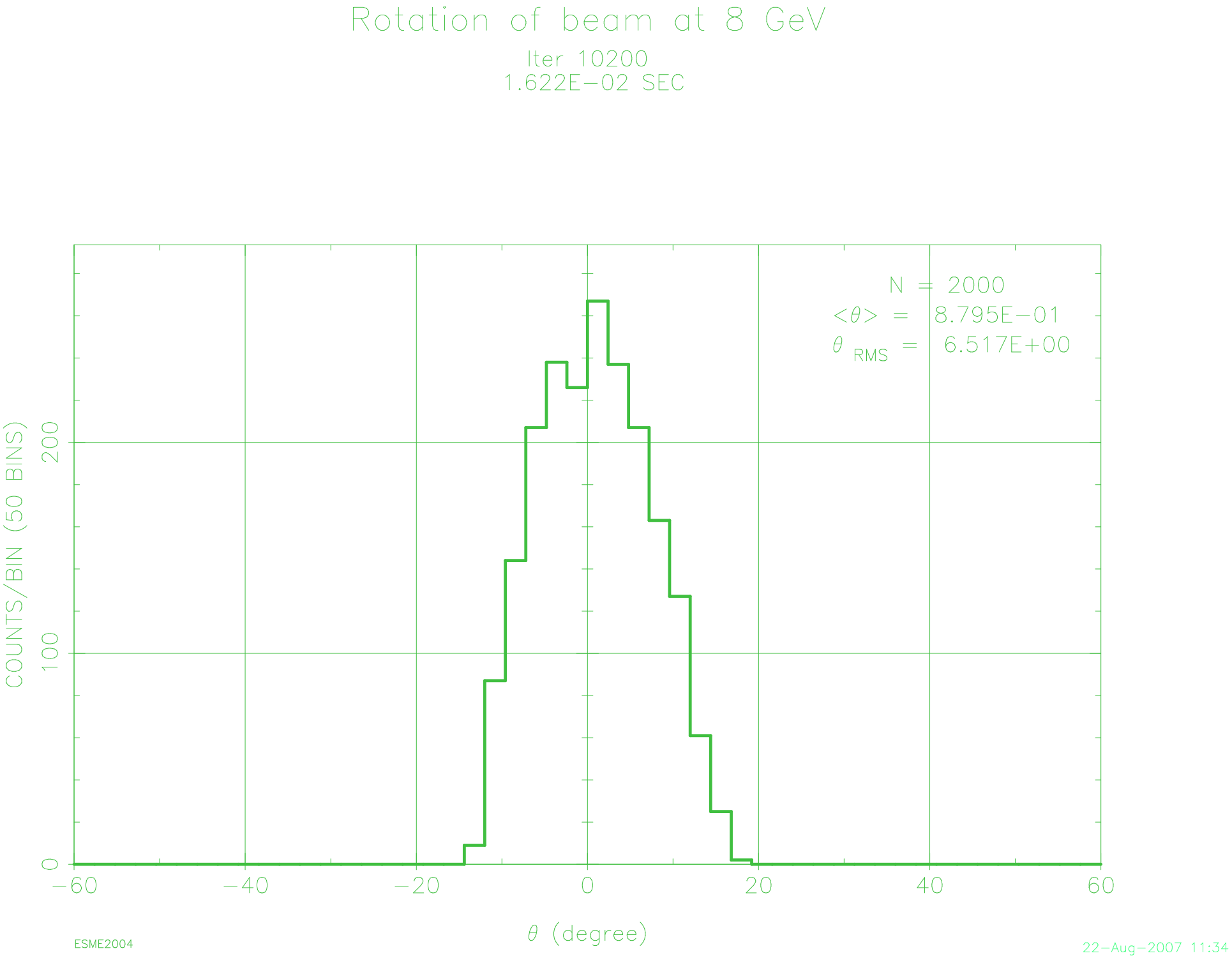
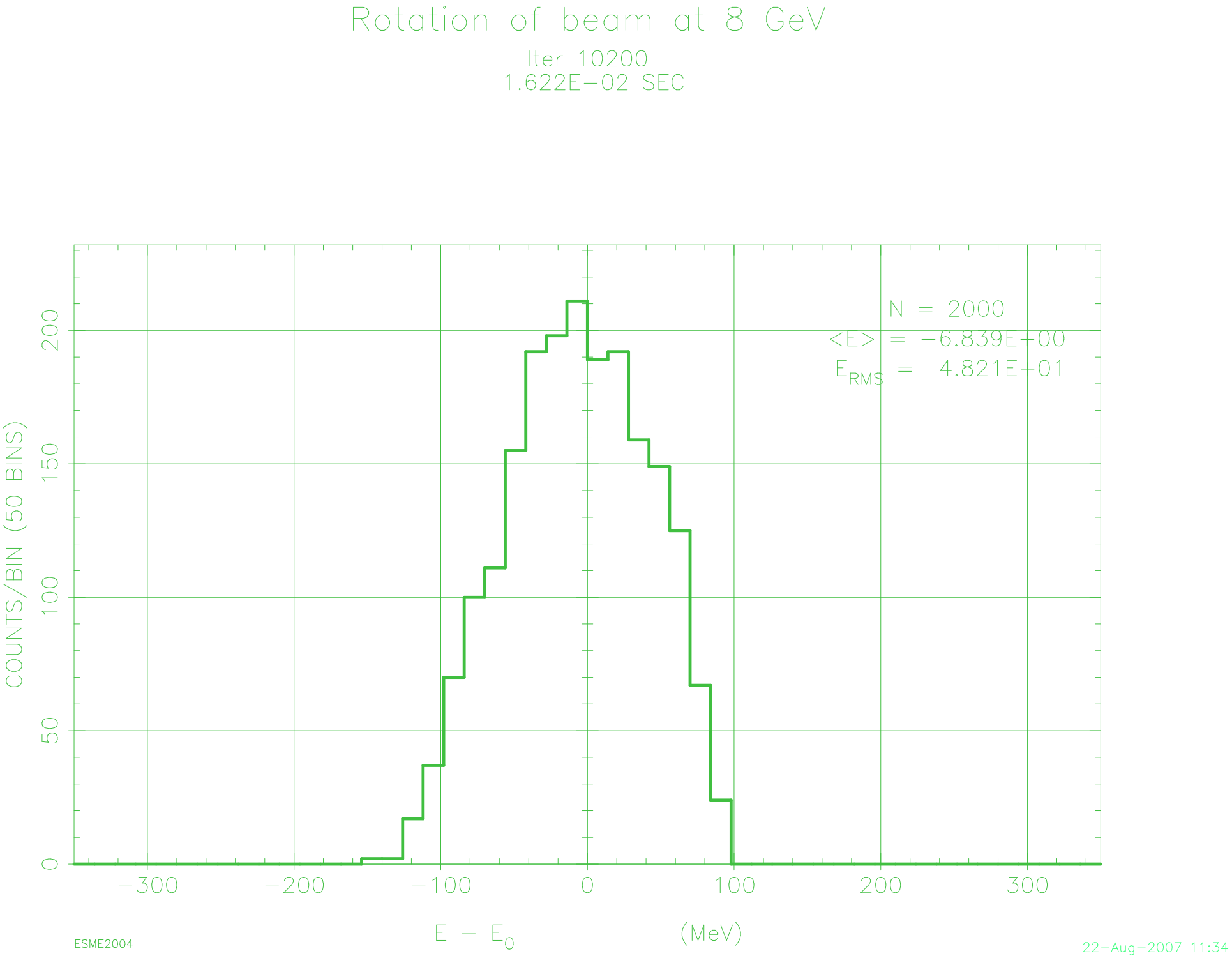

Rotation of beam at 8 GeV
Iter 10200
1.622E−02 SEC
N = 2000
<θ> = 8.795E−01
θ RMS = 6.517E+00
COUNTS/BIN (50 BINS)
0
100
200
−60
−40
−20
0
20
40
60
θ (degree)
ESME2004
22−Aug−2007 11:34


Rotation of beam at 8 GeV
Iter 10200
1.622E−02 SEC
N = 2000
<E> = −6.839E−00
E_RMS = 4.821E−01
COUNTS/BIN (50 BINS)
0
50
100
150
200
−300
−200
−100
0
100
200
300
E − E0
(MeV)
ESME2004
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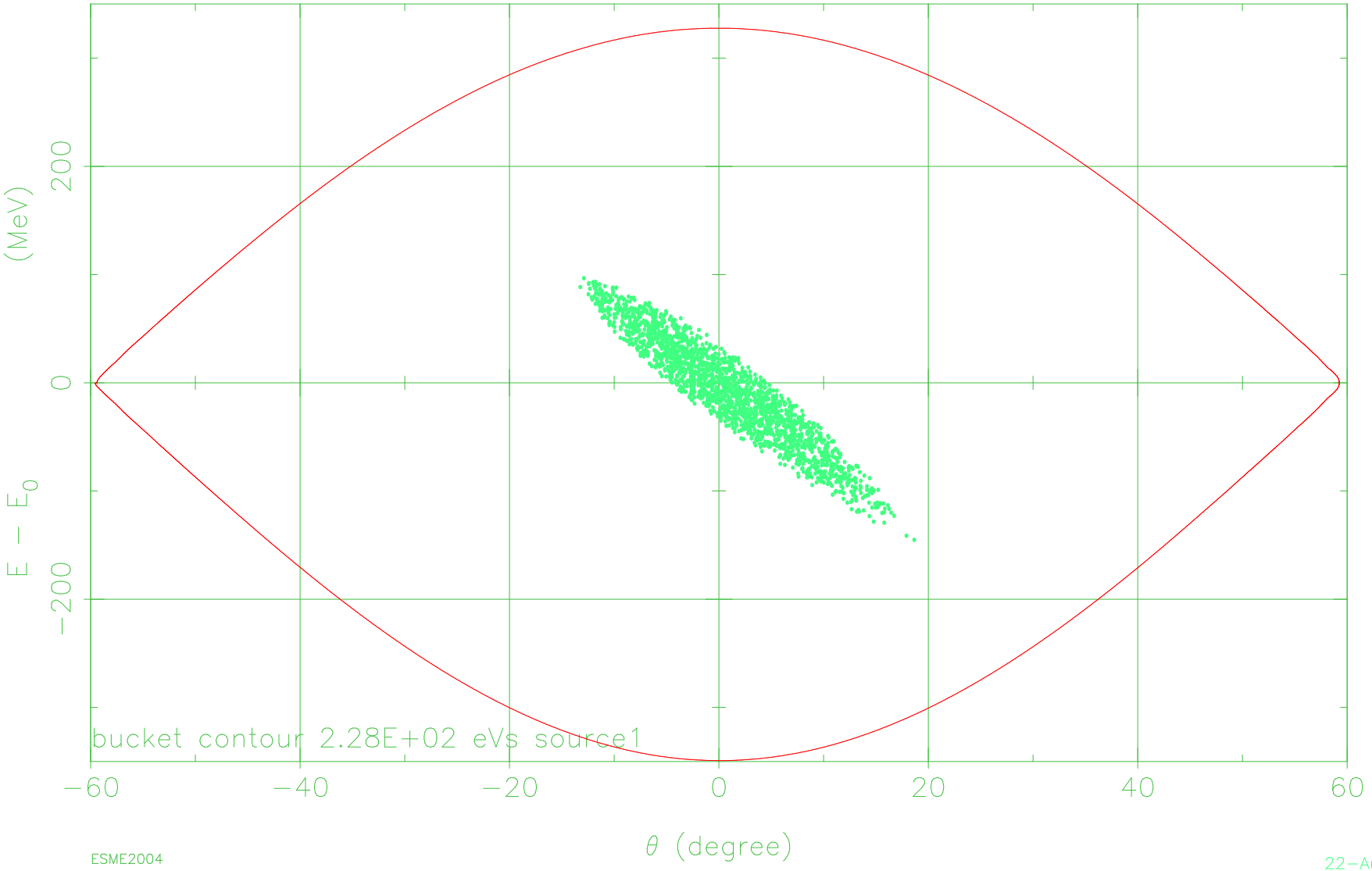
Rotation of beam at 8 GeV

Iter 10200 1.622E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
3.3840E+02	2.2758E+02	8.9383E+03	3	4.000E−01	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η	6	6.000E−02	0.000E+00
3.7758E−04	3.0968E−11	6.5988E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4226E+00	2000			



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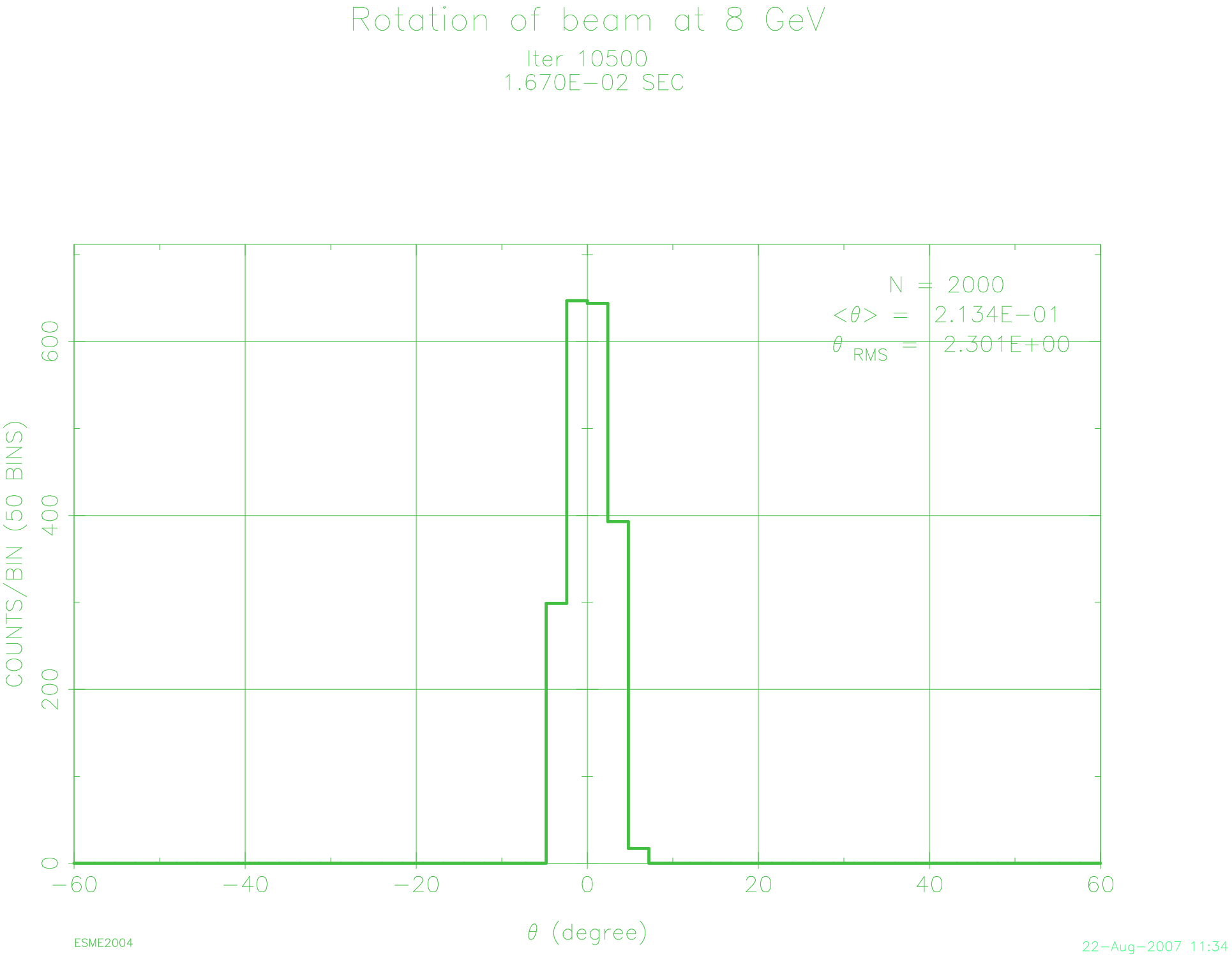
Rotation of beam at 8 GeV
Iter 10500
1.670E−02 SEC
N = 2000
<θ> = 2.134E−01
θ RMS = 2.301E+00
COUNTS/BIN (50 BINS)
0
200
400
600
−60
−40
−20
0
20
40
60
θ (degree)
ESME2004
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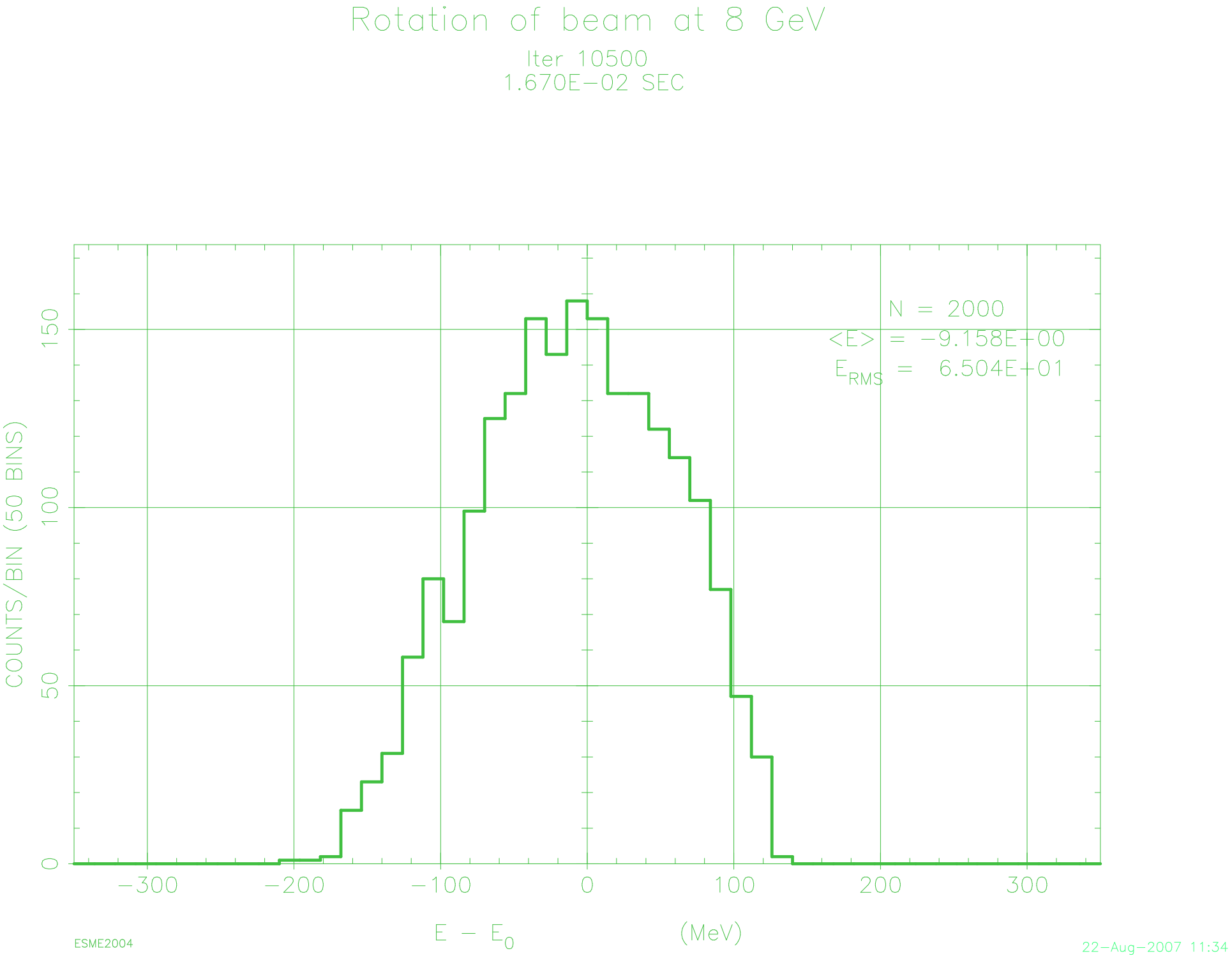
Rotation of beam at 8 GeV
Iter 10500
1.670E−02 SEC
N = 2000
<E> = −9.158E+00
E_RMS = 6.504E+01
COUNTS/BIN (50 BINS)
0
50
100
150
−300
−200
−100
0
100
200
300
E − E0
(MeV)
ESME2004
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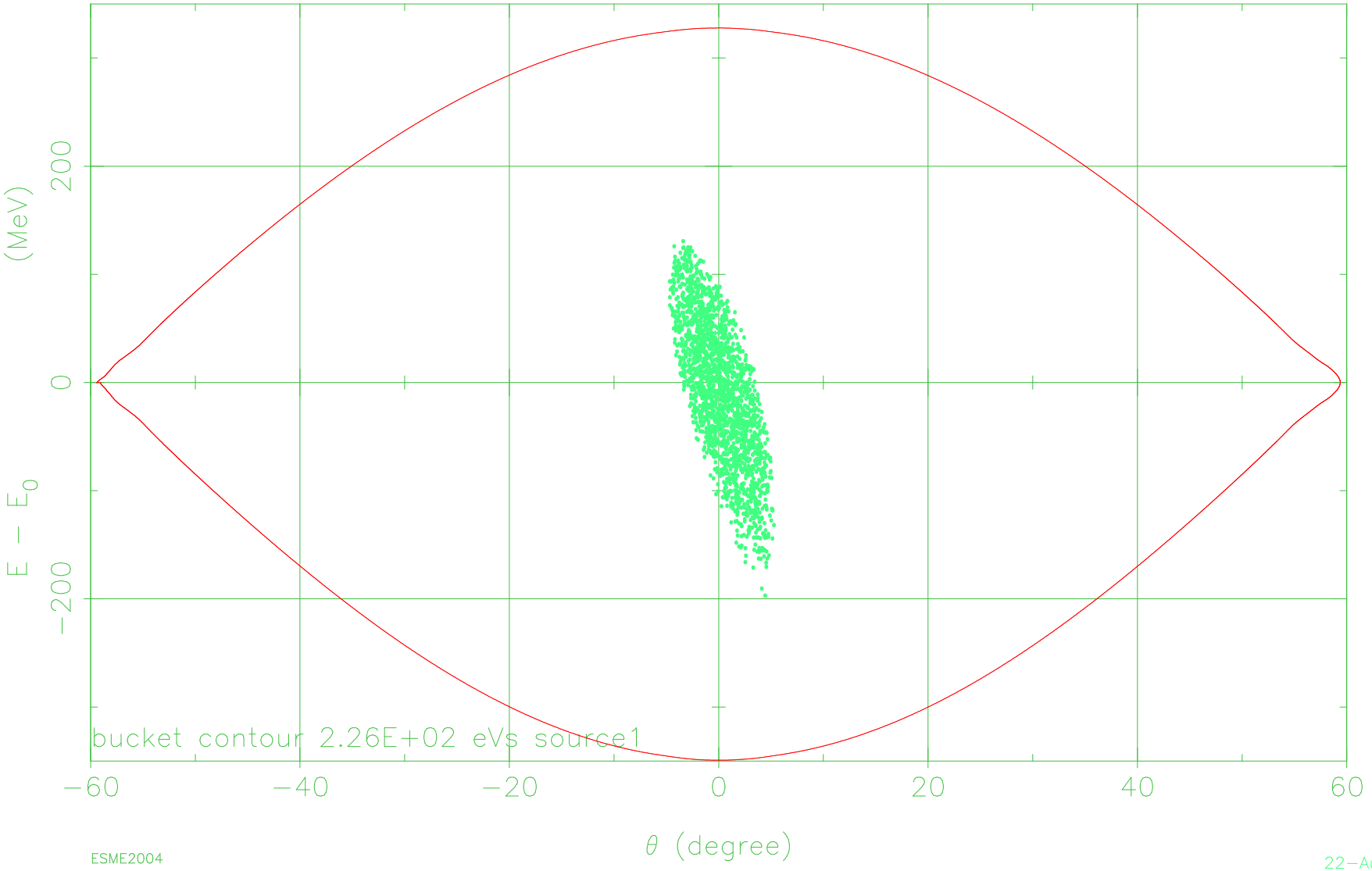
Rotation of beam at 8 GeV

Iter 10500 1.670E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
3.3845E+02	2.2641E+02	8.9383E+03	3	4.000E−01	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η	6	6.000E−02	0.000E+00
3.7758E−04	3.0968E−11	6.5988E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4237E+00	2000			



ESME2004

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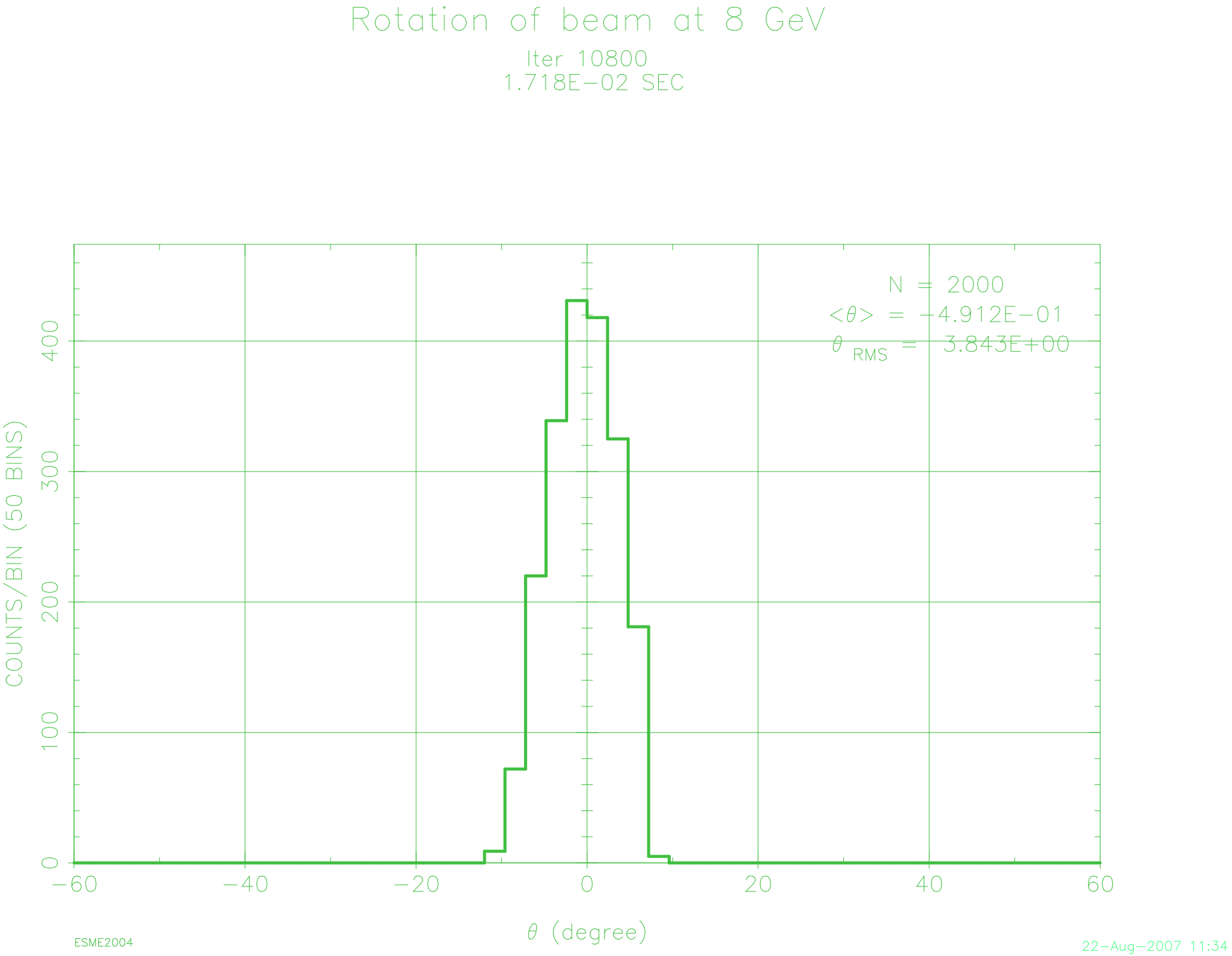
Rotation of beam at 8 GeV
Iter 10800
1.718E−02 SEC
N = 2000
<θ> = −4.912E−01
θ RMS = 3.843E+00
COUNTS/BIN (50 BINS)
0
100
200
300
400
−60
−40
−20
0
20
40
60
θ (degree)
ESME2004
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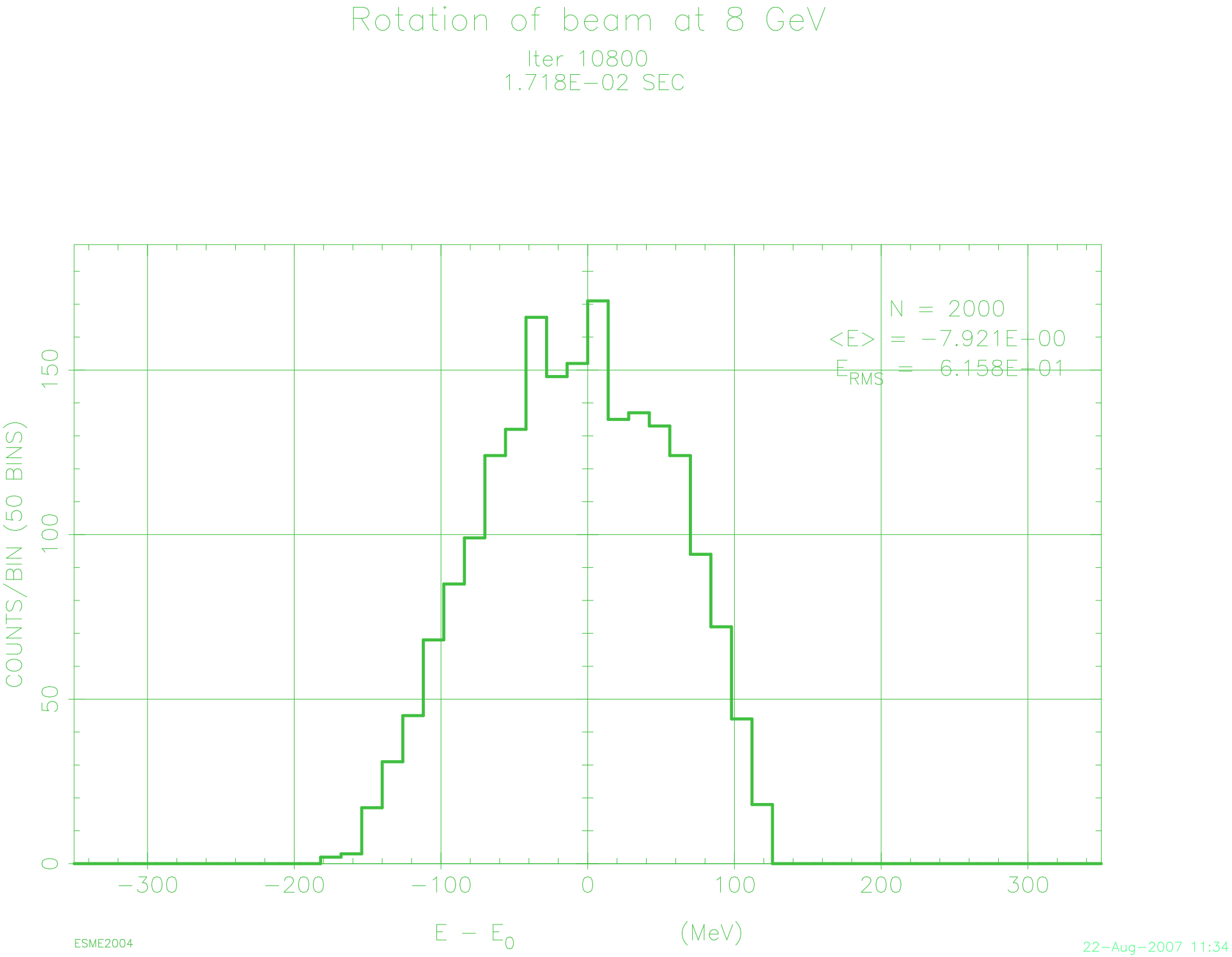
Rotation of beam at 8 GeV
Iter 10800
1.718E−02 SEC
N = 2000
<E> = −7.921E−00
E_RMS = 6.158E−01
COUNTS/BIN (50 BINS)
0
50
100
150
−300
−200
−100
0
100
200
300
E − E0
(MeV)
ESME2004
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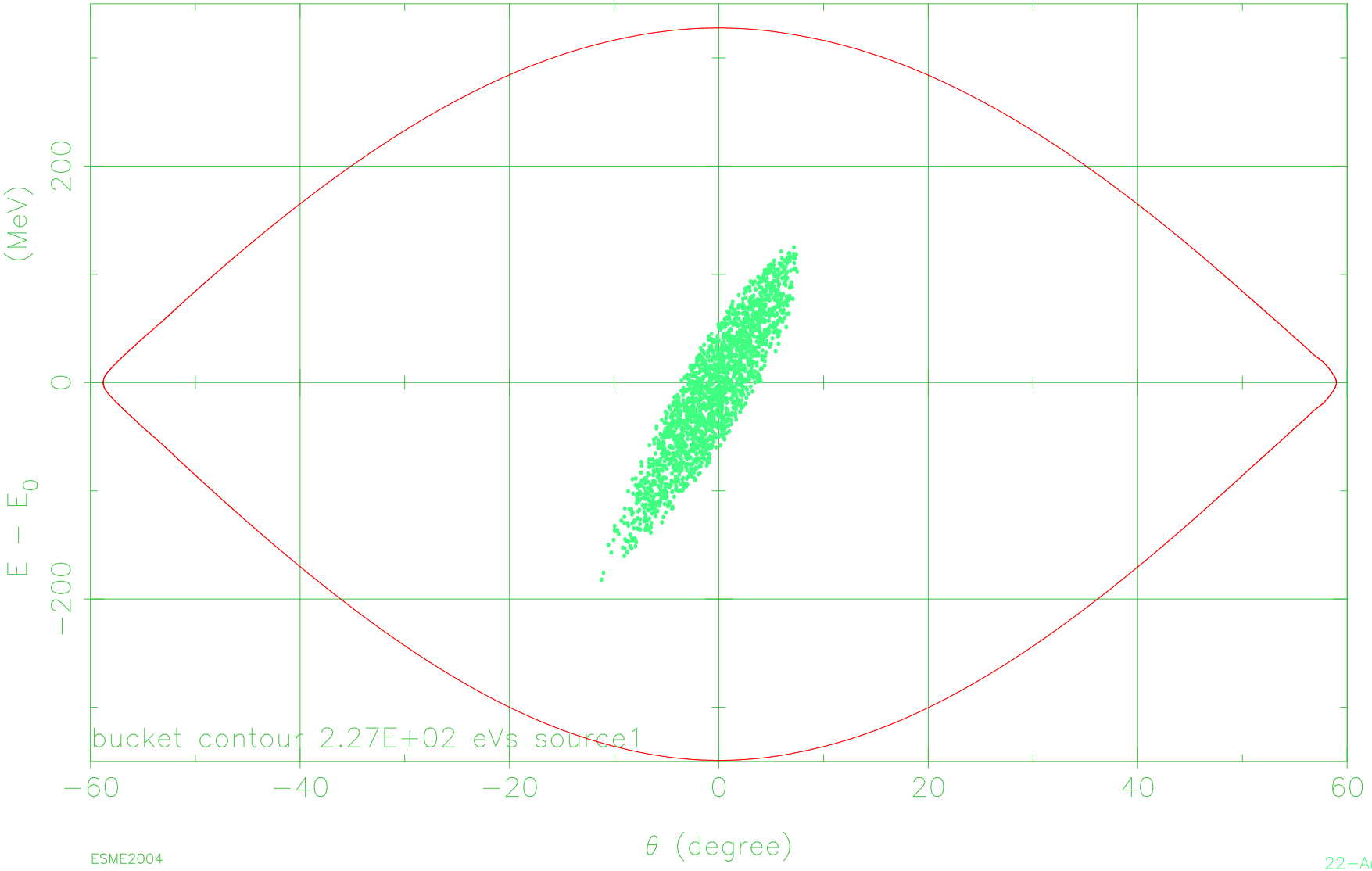
Rotation of beam at 8 GeV

Iter 10800 1.718E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
3.3837E+02	2.2690E+02	8.9383E+03	3	4.000E−01	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η	6	6.000E−02	0.000E+00
3.7758E−04	3.0968E−11	6.5988E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4233E+00	2000			



ESME2004

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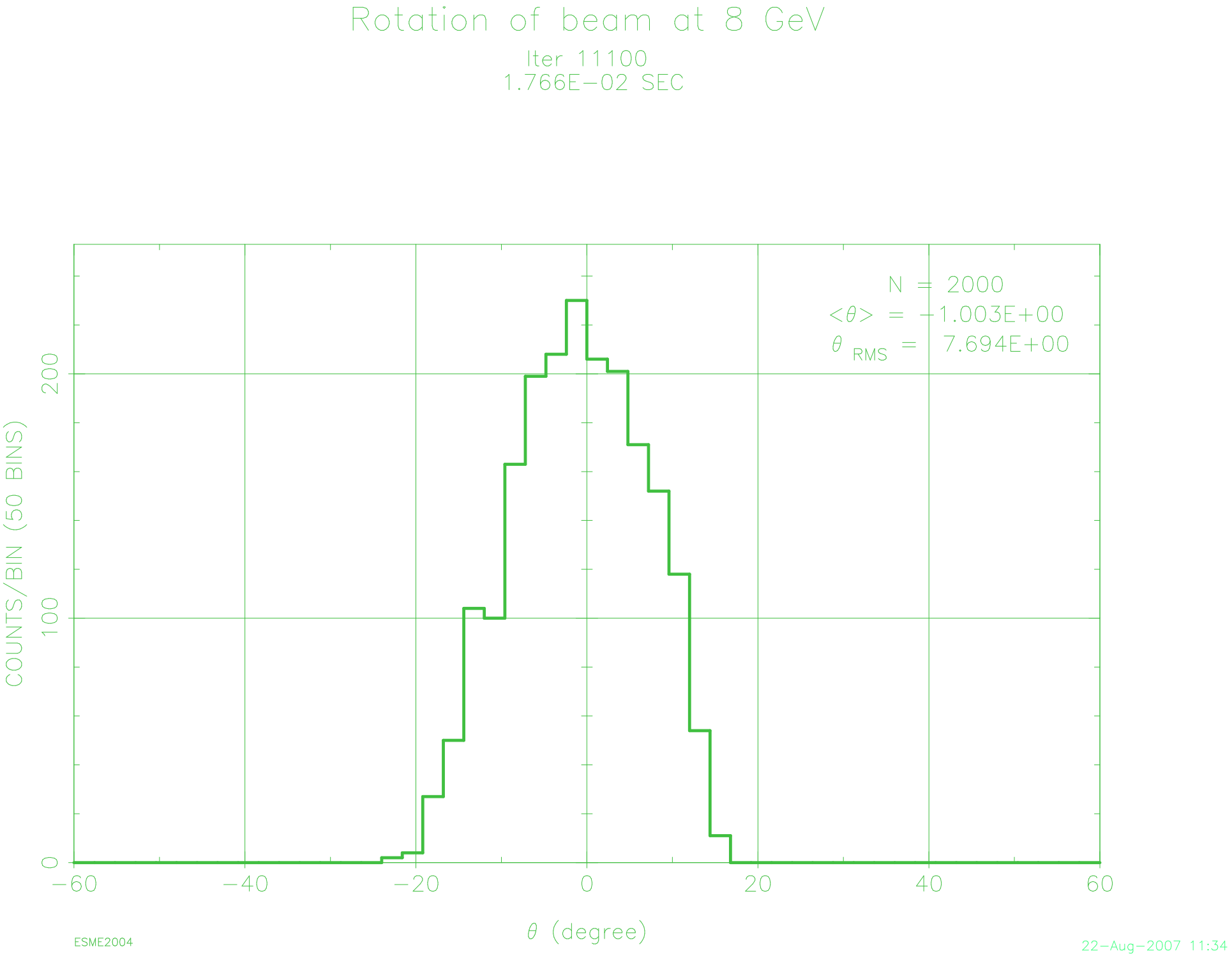
Rotation of beam at 8 GeV
Iter 11100
1.766E−02 SEC
N = 2000
<θ> = −1.003E+00
θ RMS = 7.694E+00
COUNTS/BIN (50 BINS)
0
100
200
−60
−40
−20
0
20
40
60
θ (degree)
ESME2004
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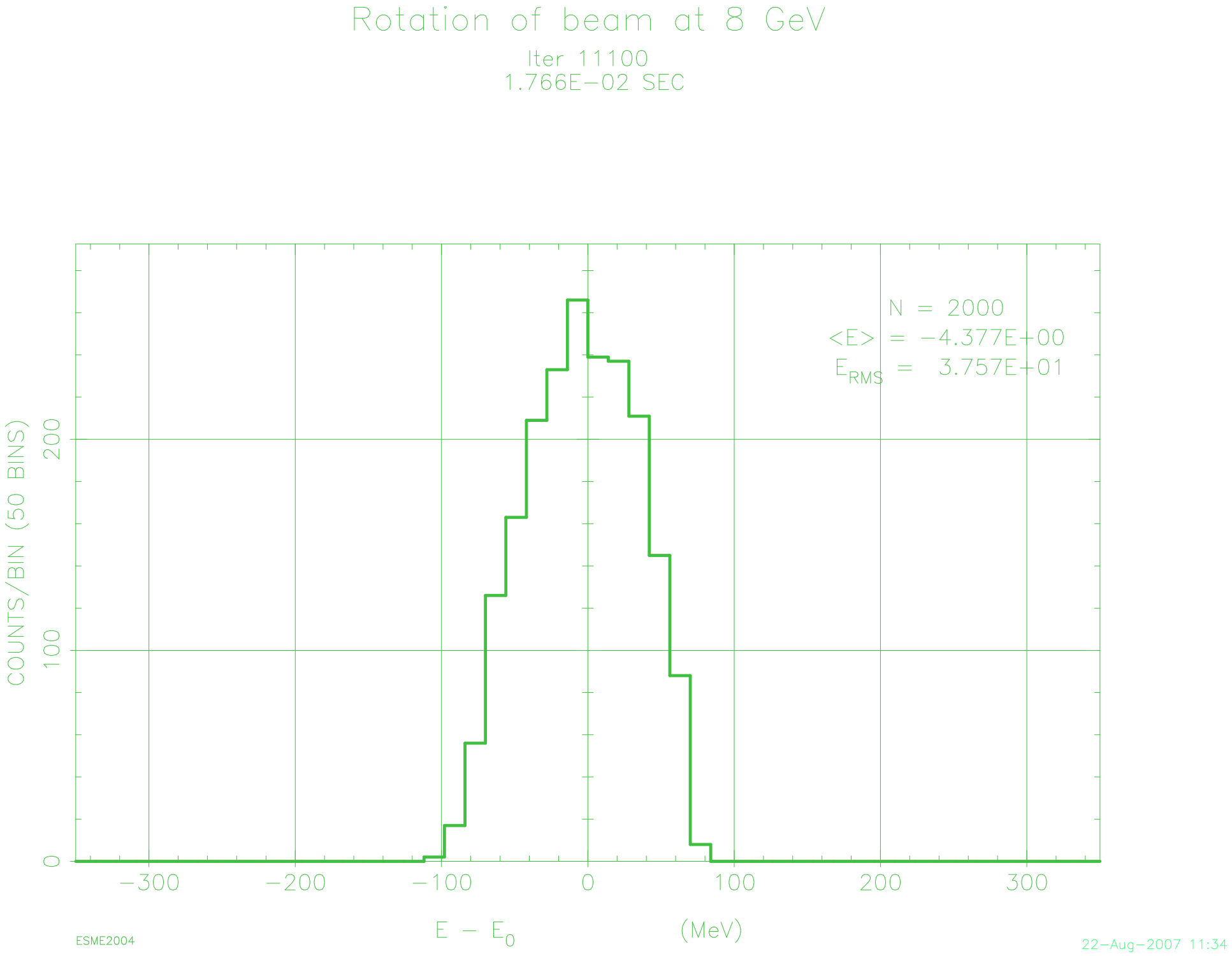
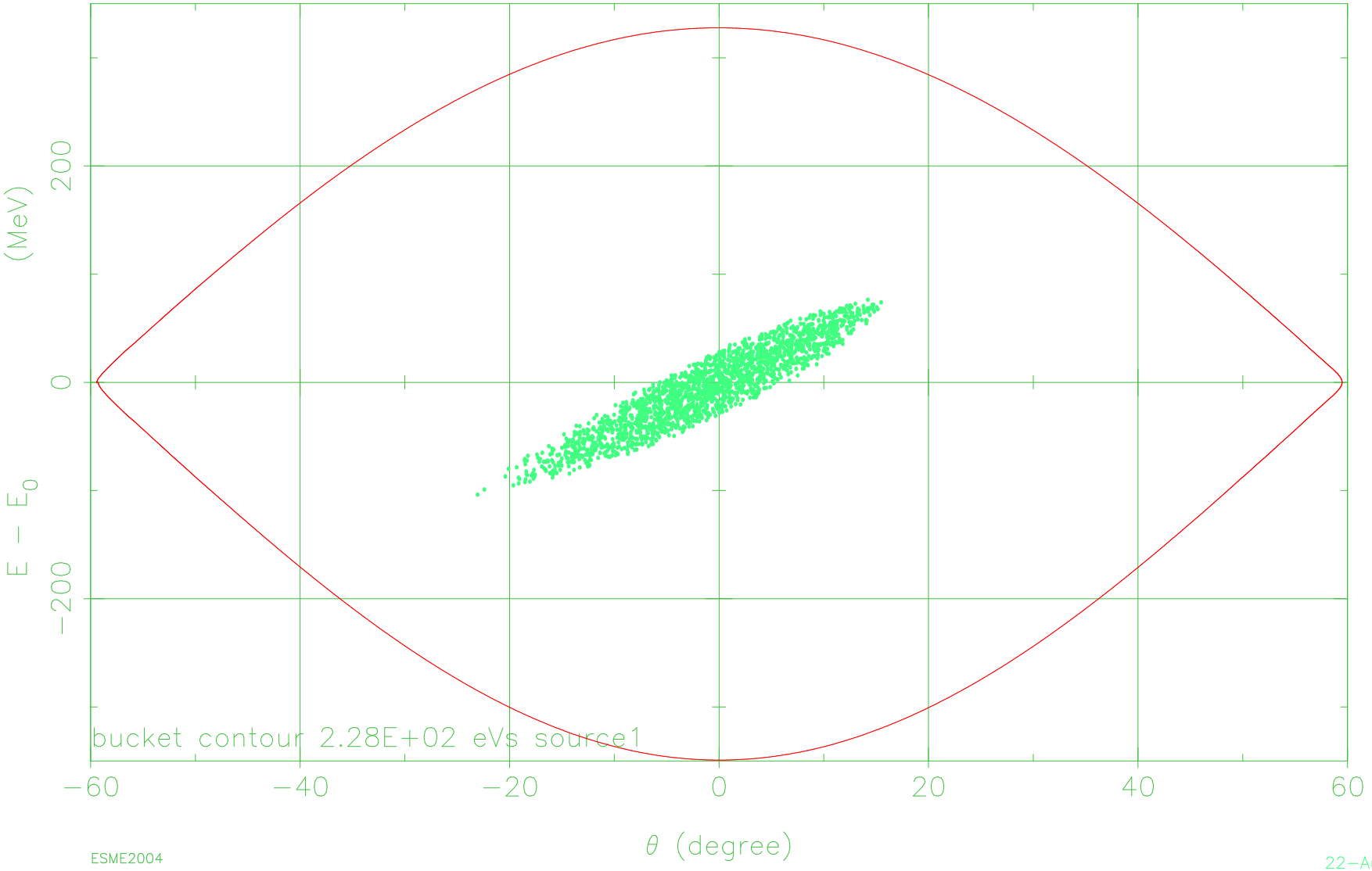

Rotation of beam at 8 GeV
Iter 11100
1.766E−02 SEC
N = 2000
<E> = −4.377E+00
E_RMS = 3.757E+01
COUNTS/BIN (50 BINS)
0
100
200
−300
−200
−100
0
100
200
300
E − E0
(MeV)
ESME2004
22−Aug−2007 11:34

Rotation of beam at 8 GeV

Iter 11100 1.766E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
3.3844E+02	2.2779E+02	8.9383E+03	3	4.000E−01	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η	6	6.000E−02	0.000E+00
3.7758E−04	3.0968E−11	6.5988E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4221E+00	2000			



ESME2004

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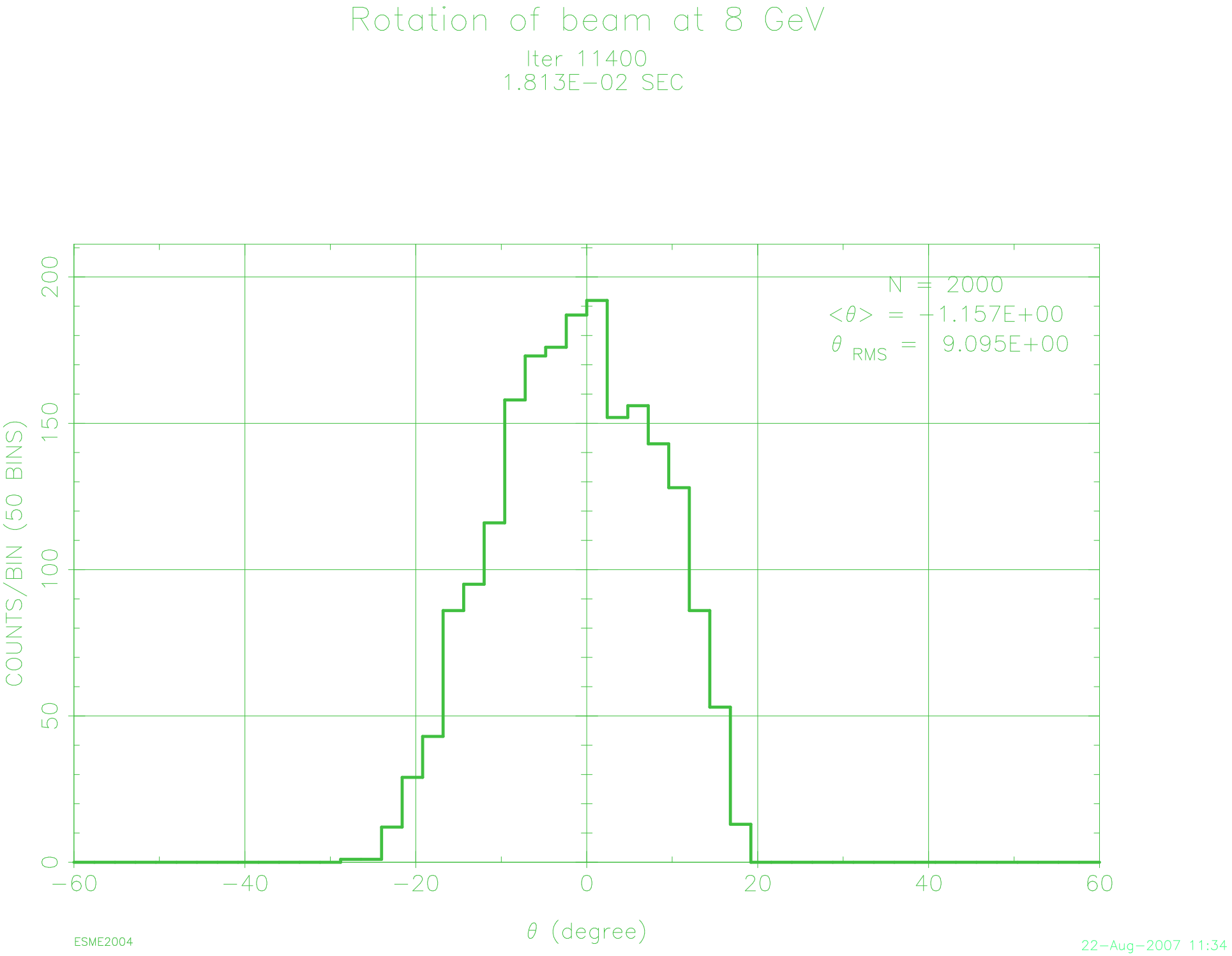
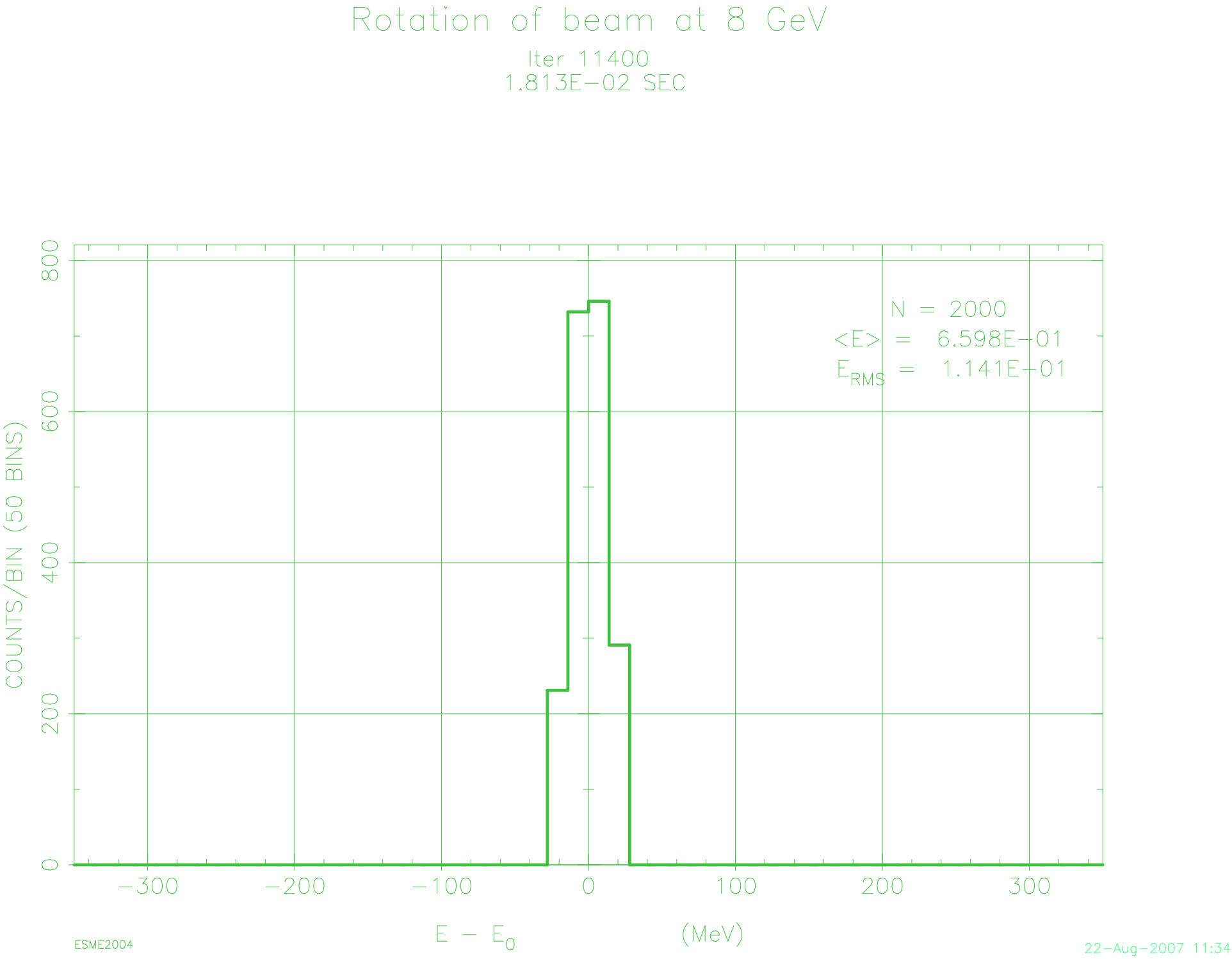
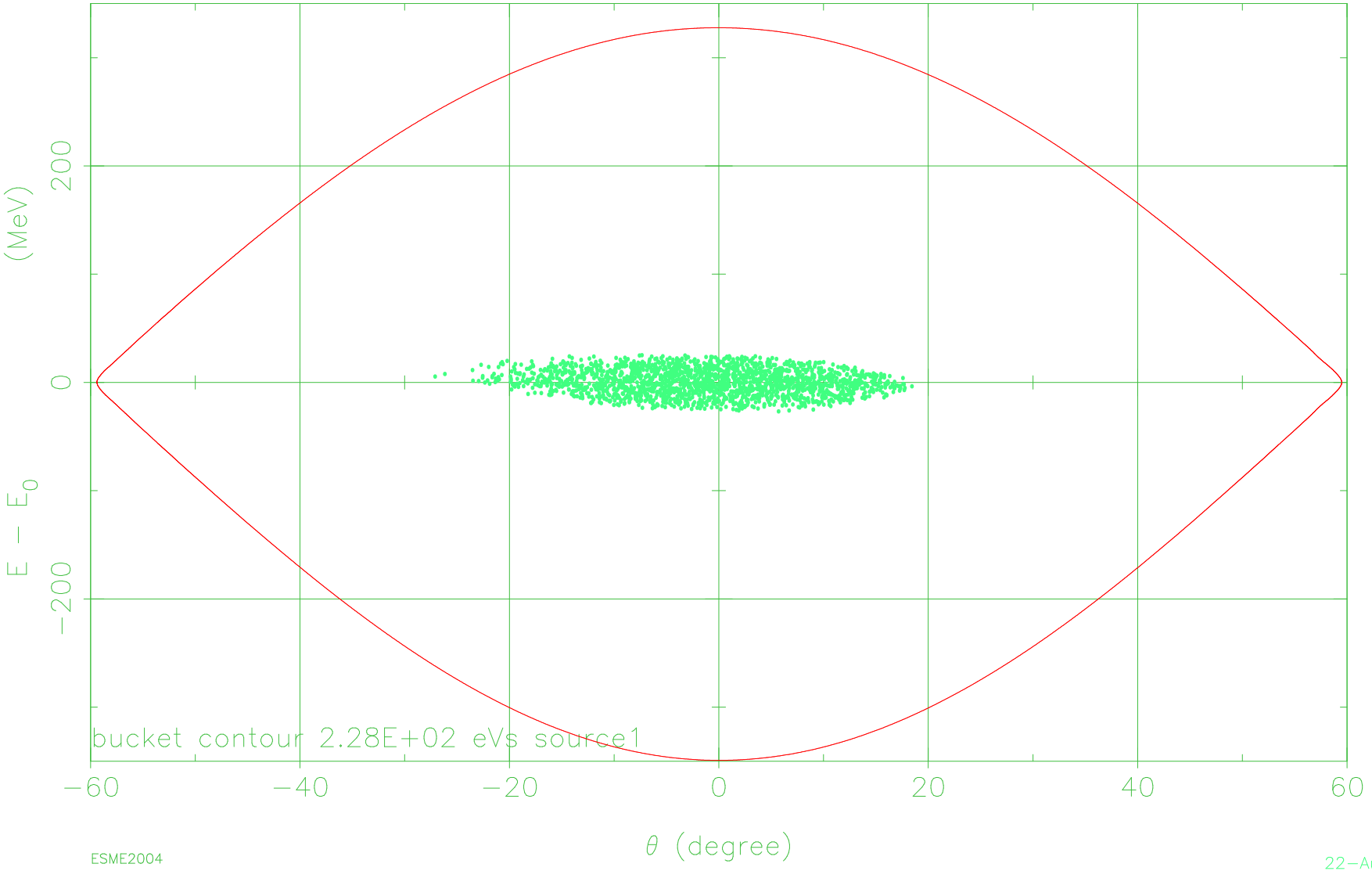

Rotation of beam at 8 GeV
Iter 11400
1.813E−02 SEC
N = 2000
<θ> = −1.157E+00
θ RMS = 9.095E+00
COUNTS/BIN (50 BINS)
0
50
100
150
200
−60
−40
−20
0
20
40
60
θ (degree)
ESME2004
22−Aug−2007 11:34


Rotation of beam at 8 GeV
Iter 11400
1.813E−02 SEC
N = 2000
<E> = 6.598E−01
E_RMS = 1.141E−01
COUNTS/BIN (50 BINS)
0
200
400
600
800
−300
−200
−100
0
100
200
300
E − E0
(MeV)
ESME2004
22−Aug−2007 11:34

Rotation of beam at 8 GeV

Iter 11400 1.813E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
3.3844E+02	2.2784E+02	8.9383E+03	3	4.000E−01	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η	6	6.000E−02	0.000E+00
3.7758E−04	3.0968E−11	6.5988E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4249E+00	2000			



ESME2004

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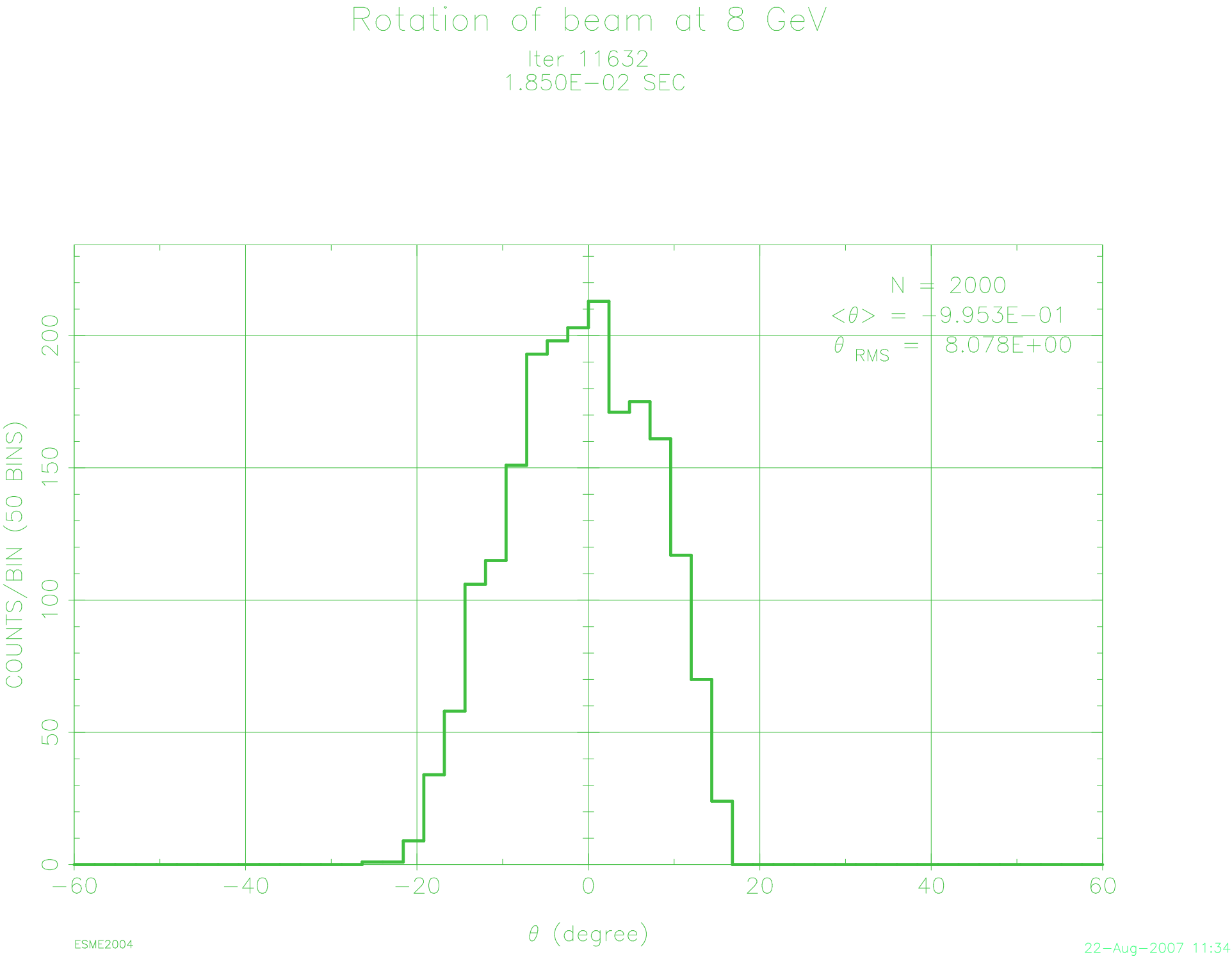
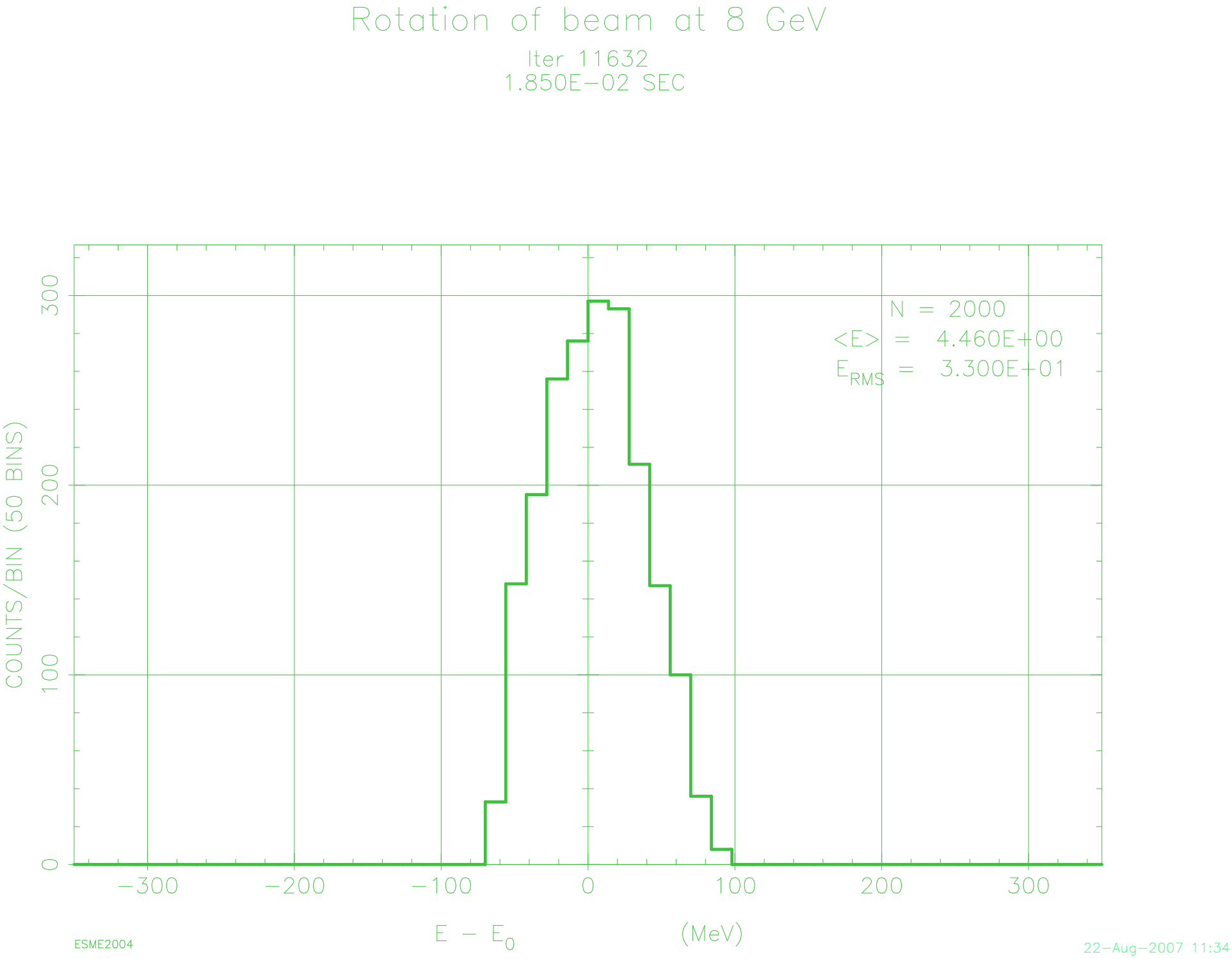

Rotation of beam at 8 GeV
Iter 11632
1.850E−02 SEC
N = 2000
<θ> = −9.953E−01
θ RMS = 8.078E+00
COUNTS/BIN (50 BINS)
0
50
100
150
200
−60
−40
−20
0
20
40
60
θ (degree)
ESME2004
22−Aug−2007 11:34


Rotation of beam at 8 GeV
Iter 11632
1.850E−02 SEC
N = 2000
<E> = 4.460E+00
E_RMS = 3.300E+01
COUNTS/BIN (50 BINS)
0
100
200
300
−300
−200
−100
0
100
200
300
E − E0
(MeV)
ESME2004
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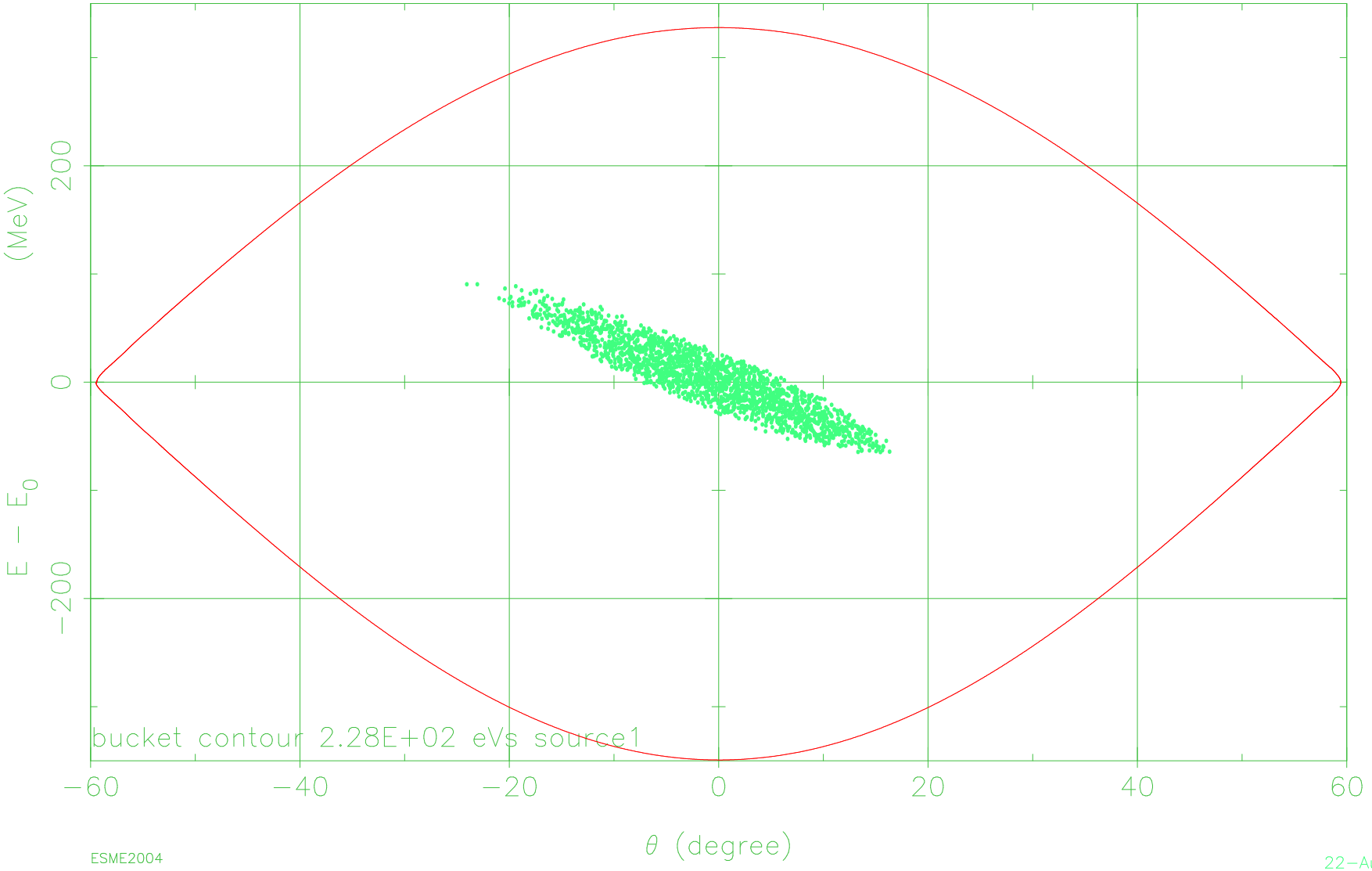
Rotation of beam at 8 GeV

Iter 11632 1.850E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
3.3845E+02	2.2781E+02	8.9383E+03	3	4.000E−01	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η	6	6.000E−02	0.000E+00
3.7758E−04	3.0968E−11	6.5988E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4255E+00	2000			



ESME2004

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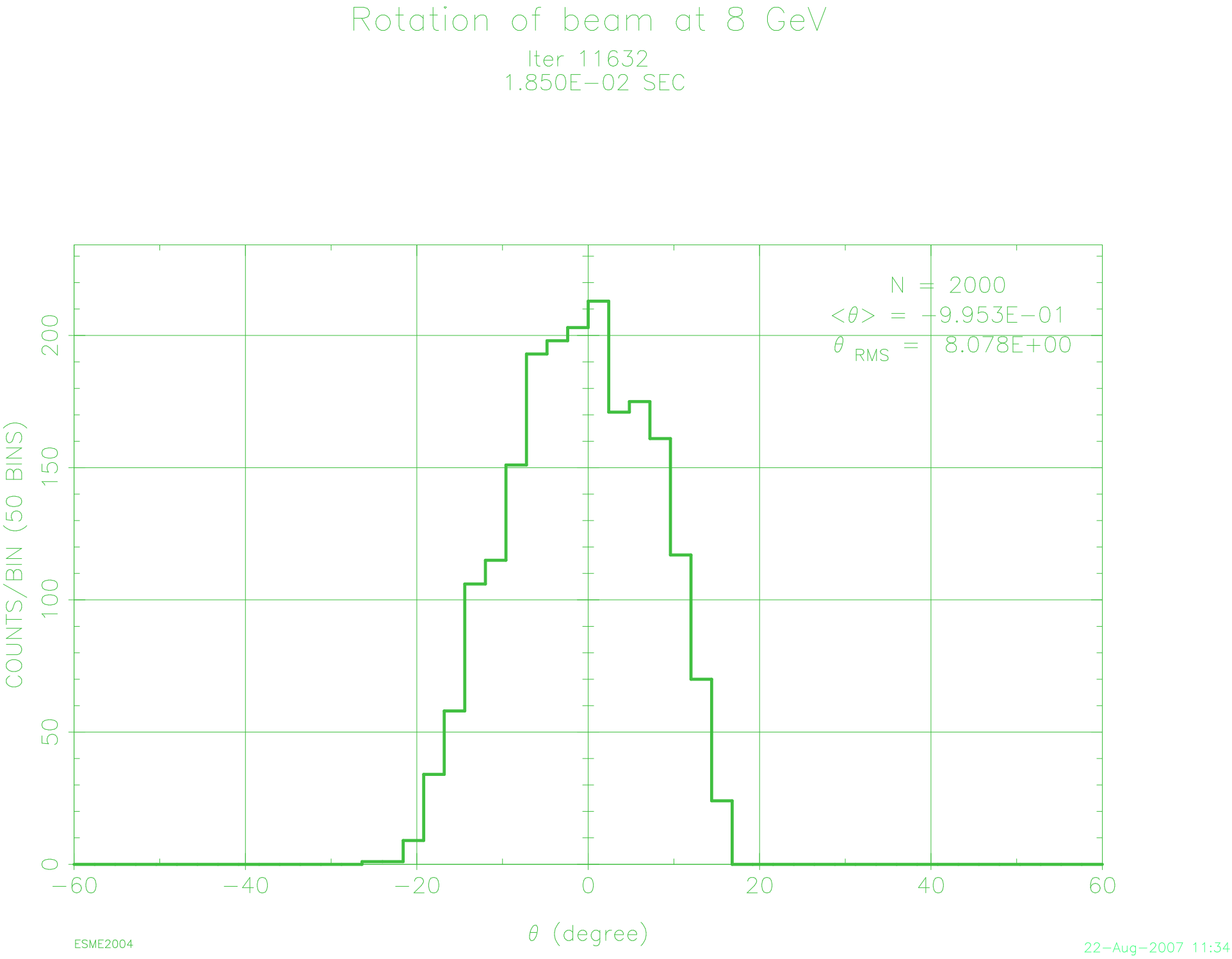
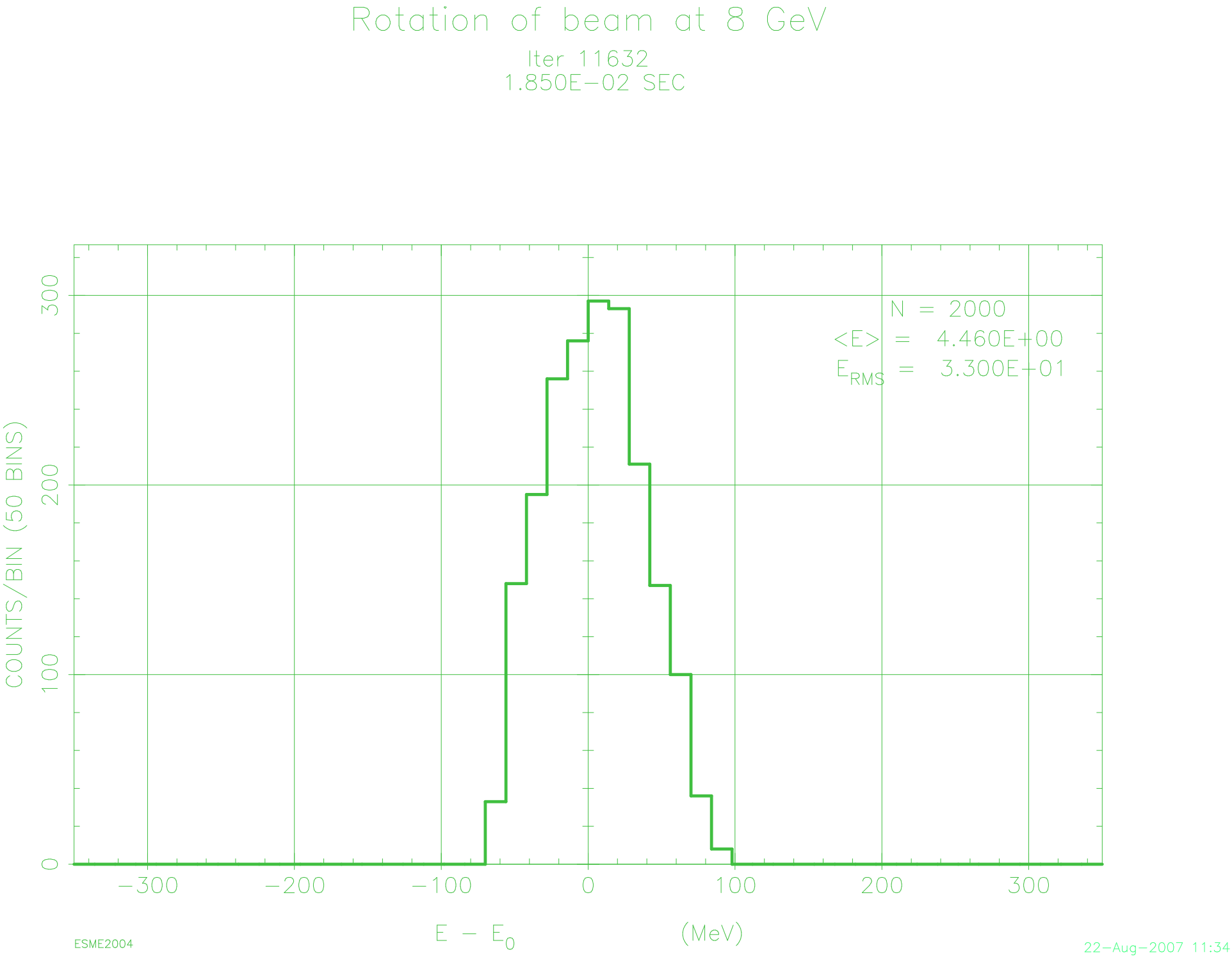

Rotation of beam at 8 GeV
Iter 11632
1.850E−02 SEC
N = 2000
<θ> = −9.953E−01
θ RMS = 8.078E+00
COUNTS/BIN (50 BINS)
0
50
100
150
200
−60
−40
−20
0
20
40
60
θ (degree)
ESME2004
22−Aug−2007 11:34


Rotation of beam at 8 GeV
Iter 11632
1.850E−02 SEC
N = 2000
<E> = 4.460E+00
E_RMS = 3.300E−01
COUNTS/BIN (50 BINS)
0
100
200
300
−300
−200
−100
0
100
200
300
E − E0
(MeV)
ESME2004
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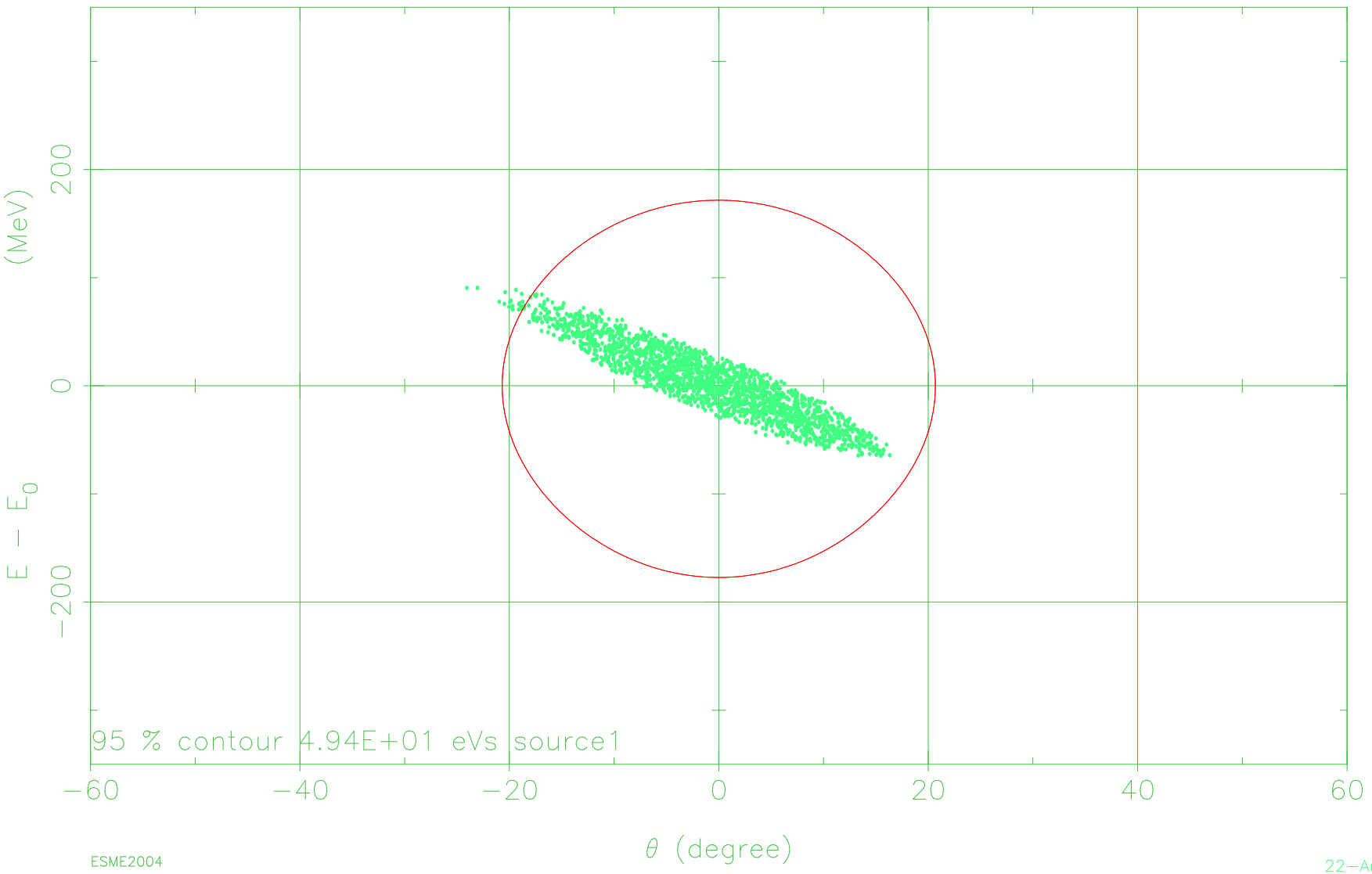
Rotation of beam at 8 GeV

Iter 11632 1.850E−02 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
3.3845E+02	2.2781E+02	8.9383E+03	3	4.000E−01	1.800E+02
ν_S (turn^{-1})	pdot (MeV s^{-1})	η	6	6.000E−02	0.000E+00
3.7758E−04	3.0968E−11	6.5988E−03			
τ (s)	S_b (eV s)	N			
1.5906E−06	1.4255E+00	2000			



ESME2004

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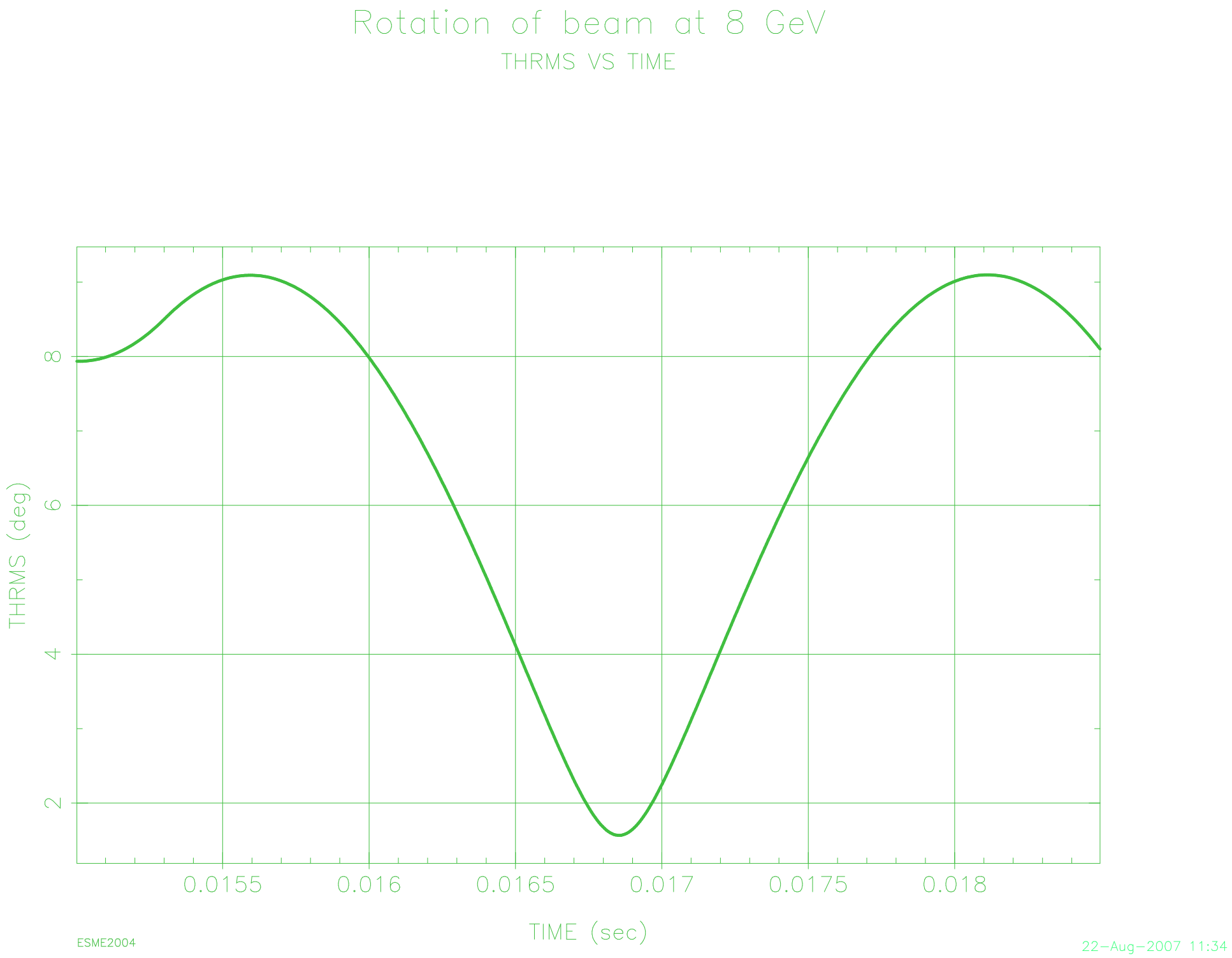
Rotation of beam at 8 GeV
THRMS VS TIME
THRMS (deg)
2
4
6
8
0.0155
0.016
0.0165
0.017
0.0175
0.018
TIME (sec)
ESME2004
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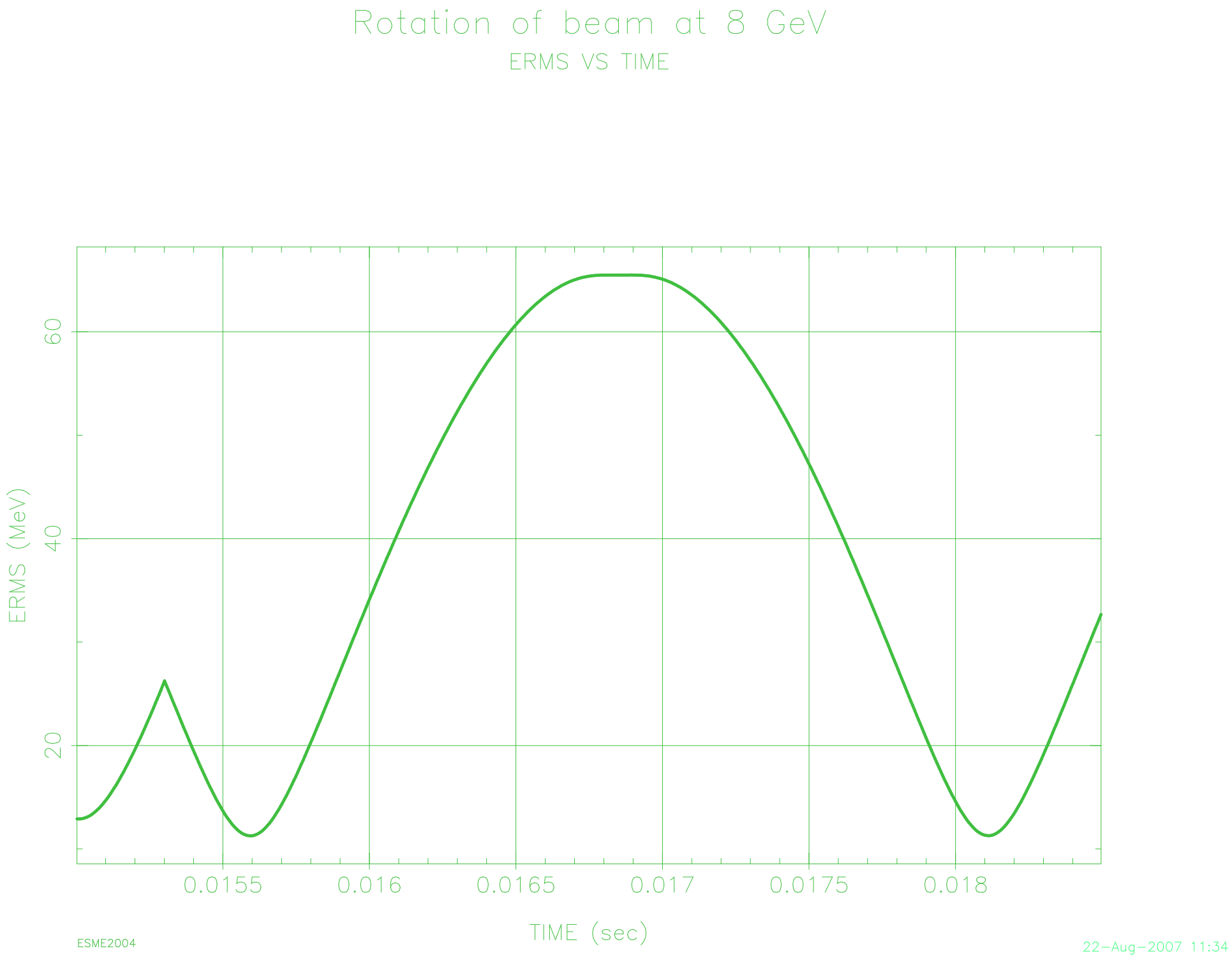
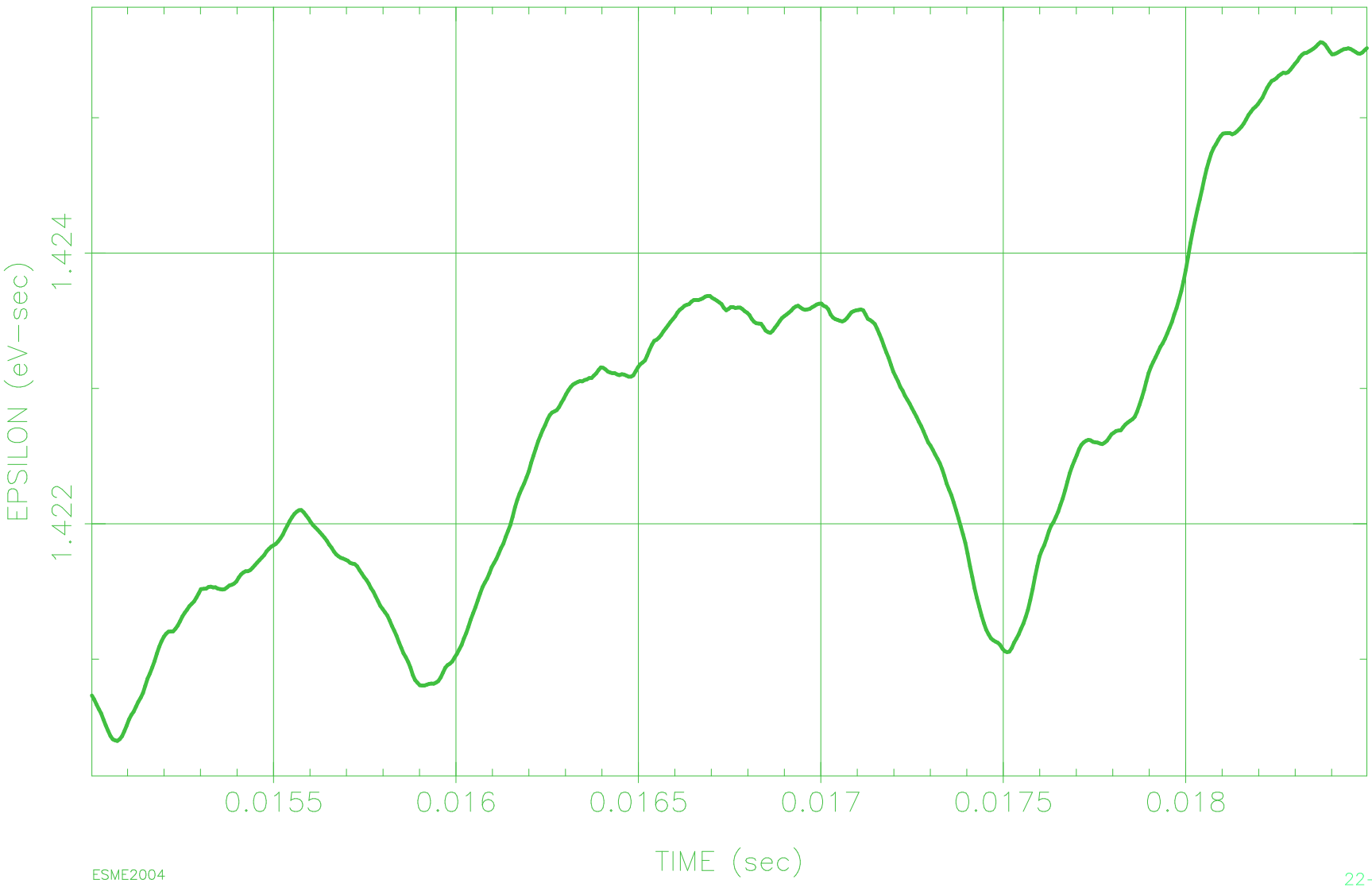

Rotation of beam at 8 GeV
ERMS VS TIME
ERMS (MeV)
20
40
60
0.0155
0.016
0.0165
0.017
0.0175
0.018
TIME (sec)
ESME2004
22-Aug-2007 11:34

Rotation of beam at 8 GeV

EPSILON VS TIME



ESME2004

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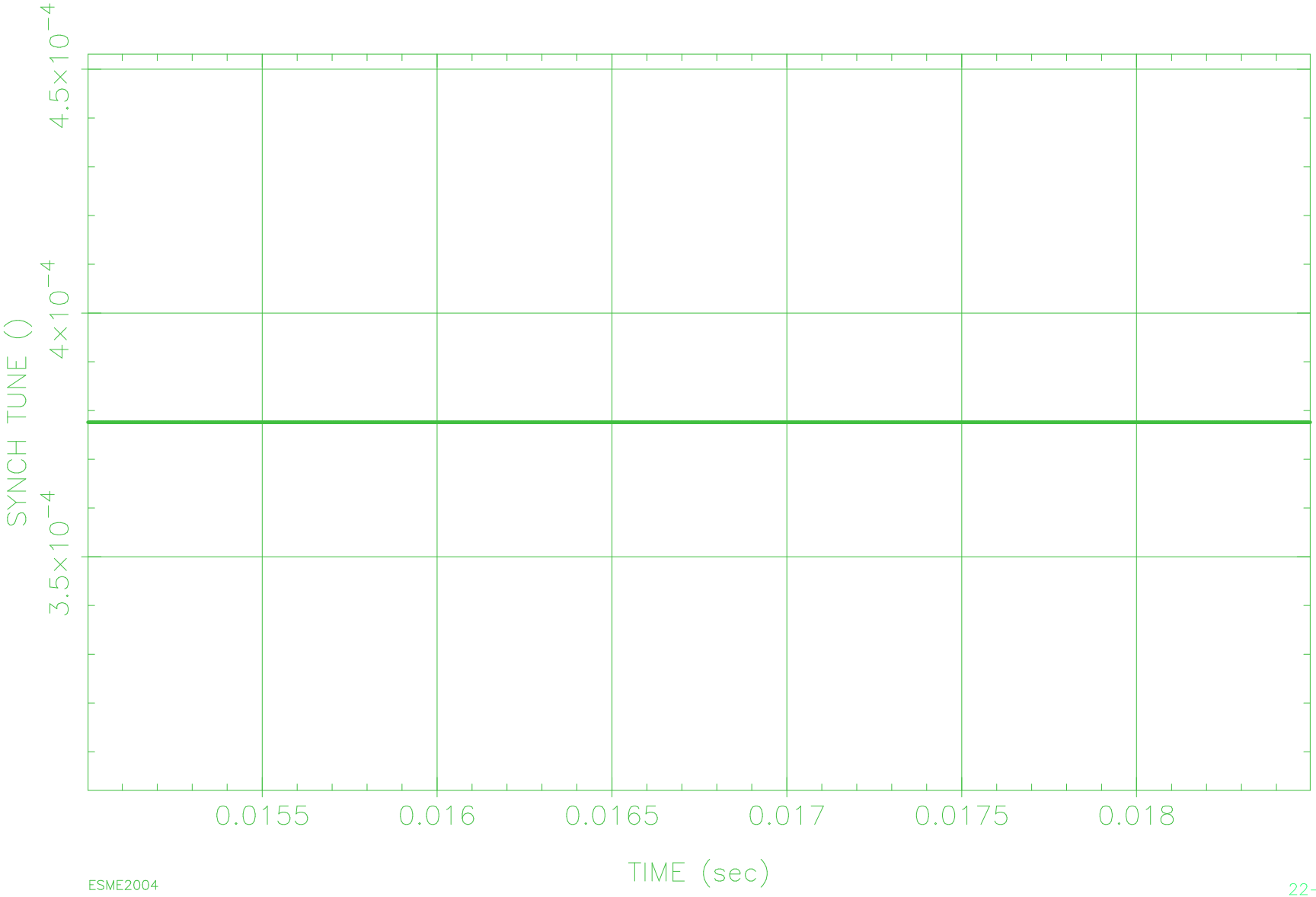
Rotation of beam at 8 GeV

SYNCH TUNE VS TIME



ESME2004

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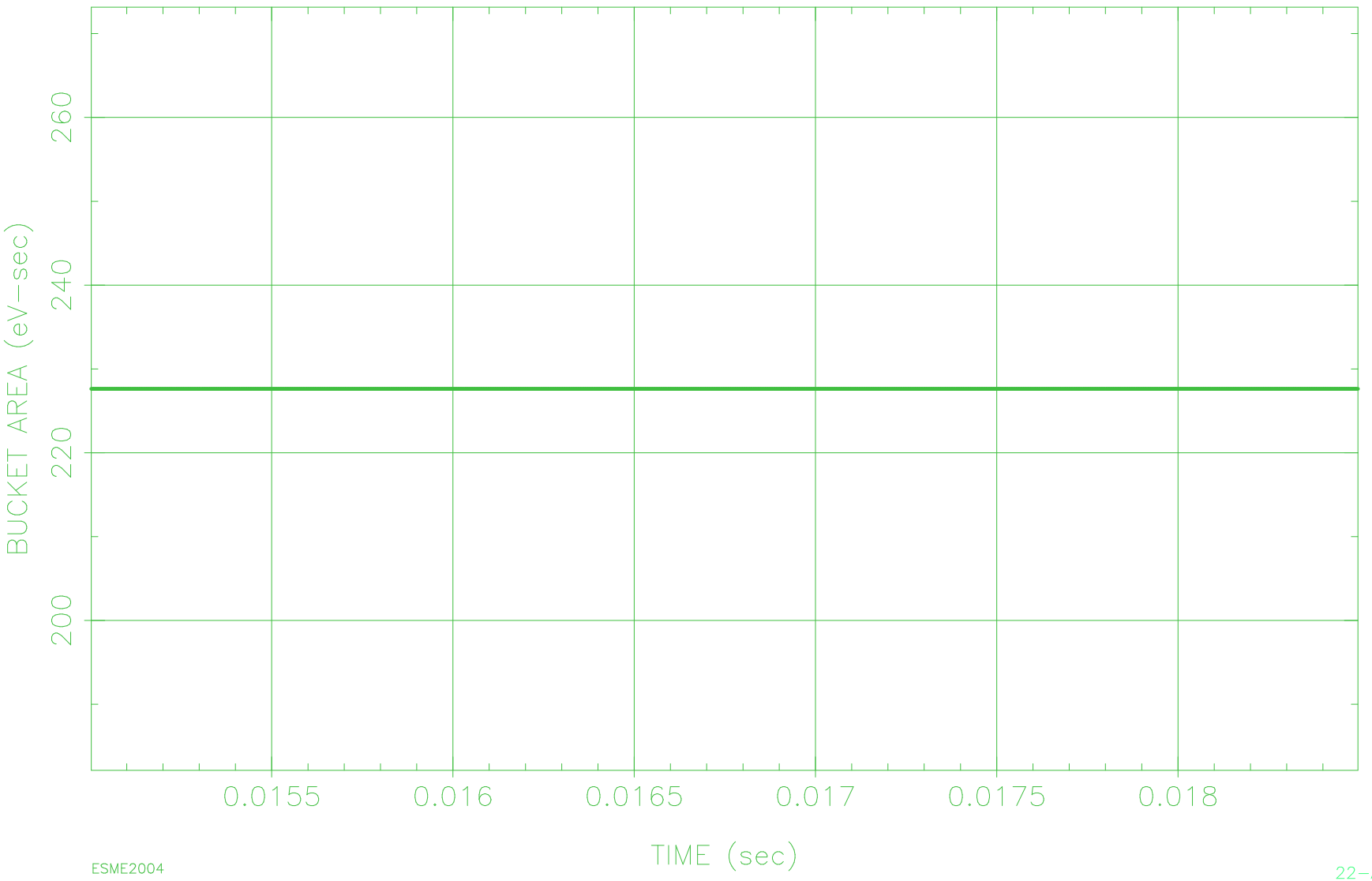
Rotation of beam at 8 GeV

BUCKET AREA VS TIME



ESME2004

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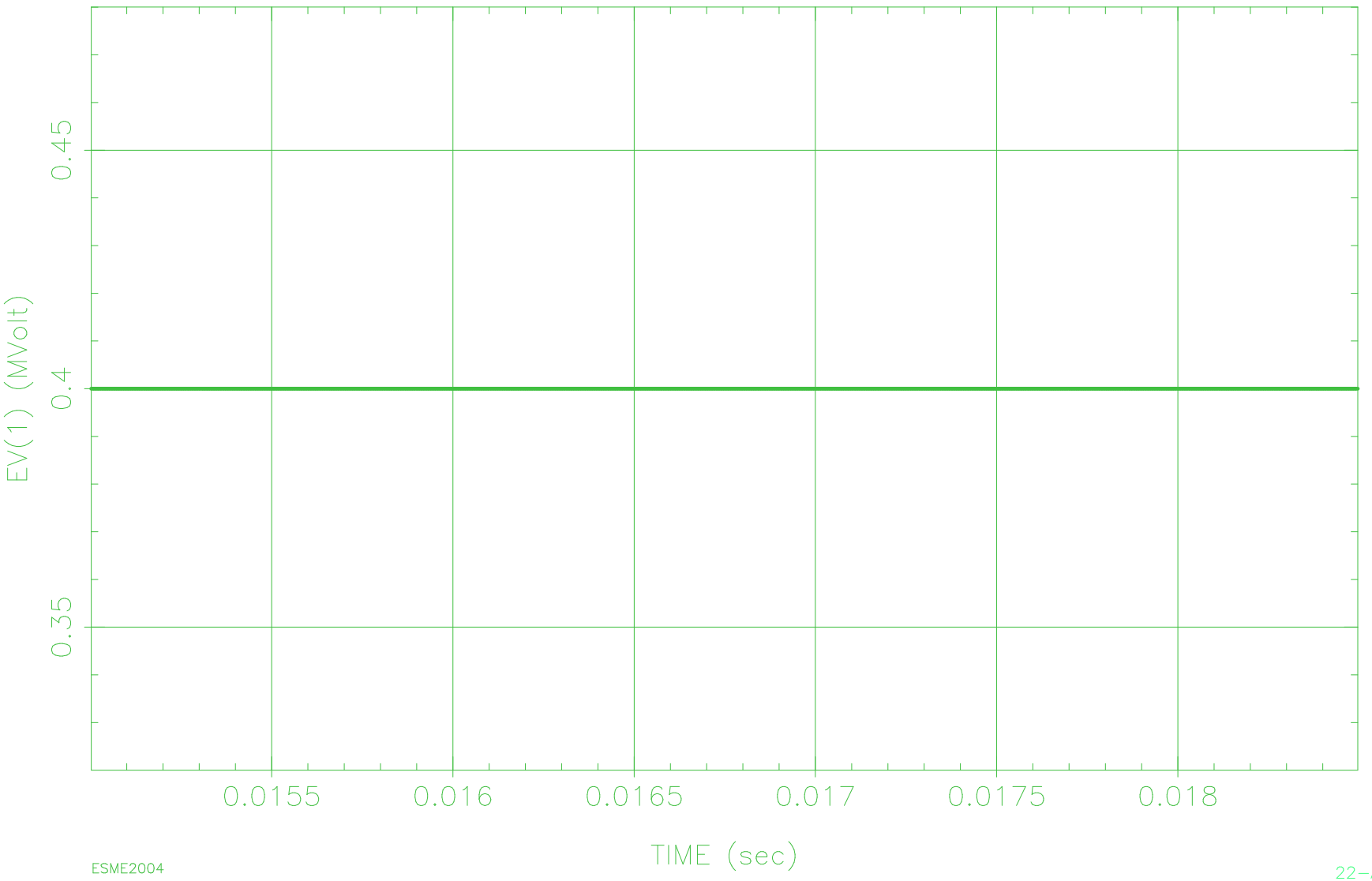
Rotation of beam at 8 GeV

EV(1) VS TIME



ESME2004

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