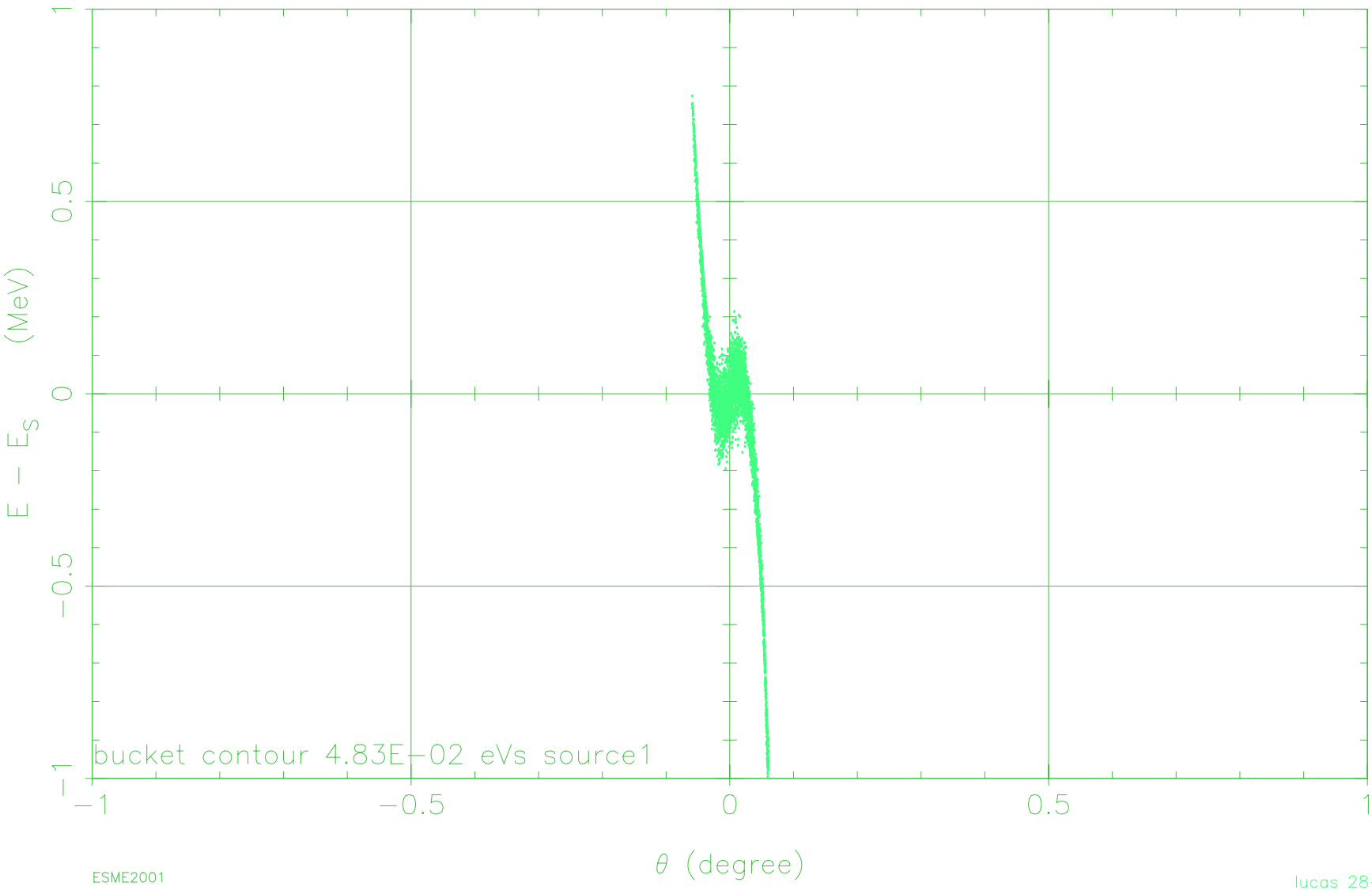
512 Space Charge Bunches

Iter 0 0.000E+00 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
1.4828E+00	4.8320E−02	1.3383E+03	84	2.000E−01	0.000E+00
ν_S (turn^{-1})	pdot (MeV s^{-1})	η			
4.2415E−02	−8.1068E+02	−4.5783E−01			
τ (s)	S_b (eV s)	N			
2.2182E−06	9.9684E−05	1999753			



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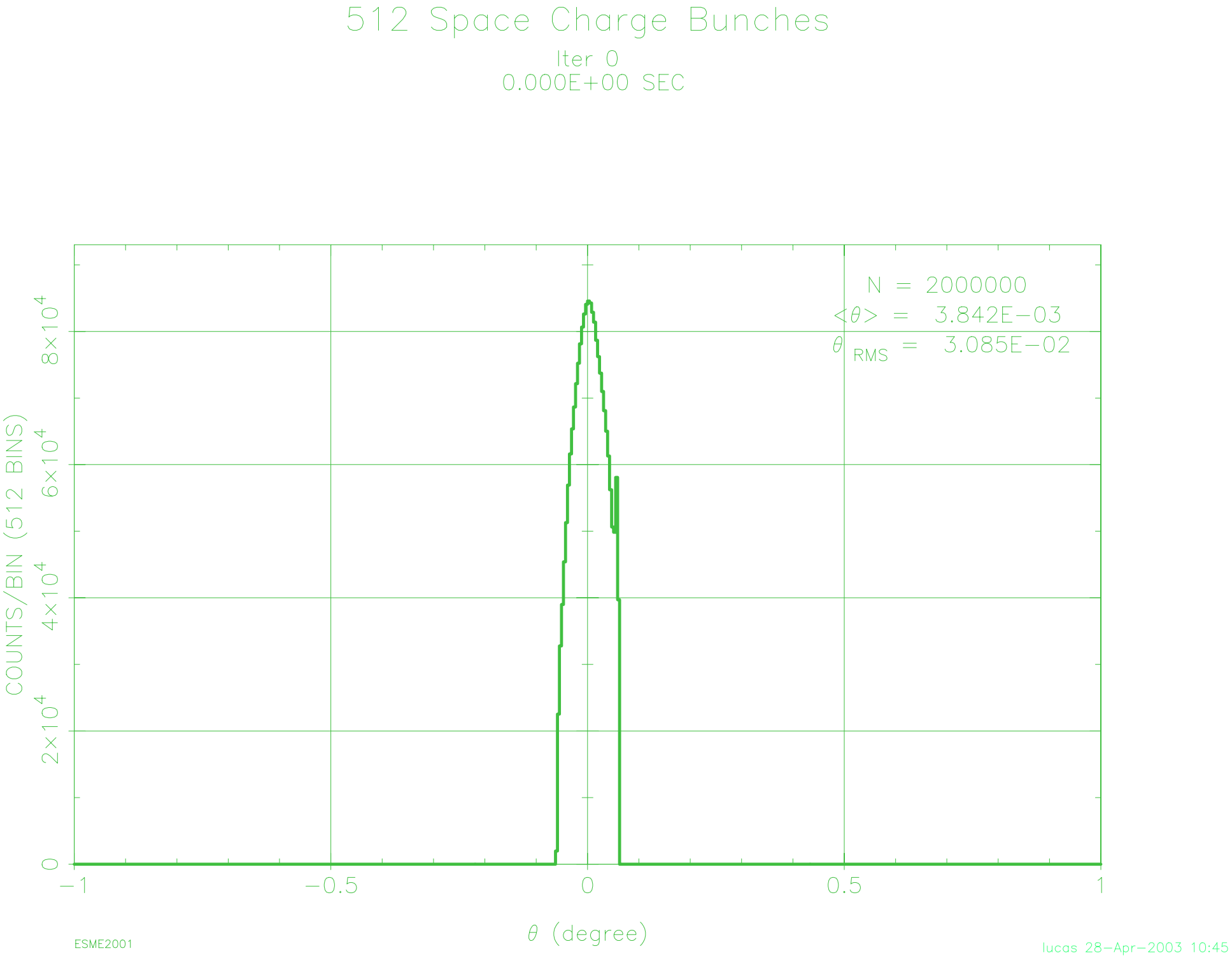
512 Space Charge Bunches
Iter 0
0.000E+00 SEC
N = 2000000
<θ> = 3.842E−03
θ RMS = 3.085E−02
COUNTS/BIN (512 BINS)
0
2×10^4
4×10^4
6×10^4
8×10^4
−1
−0.5
0
0.5
1
θ (degree)
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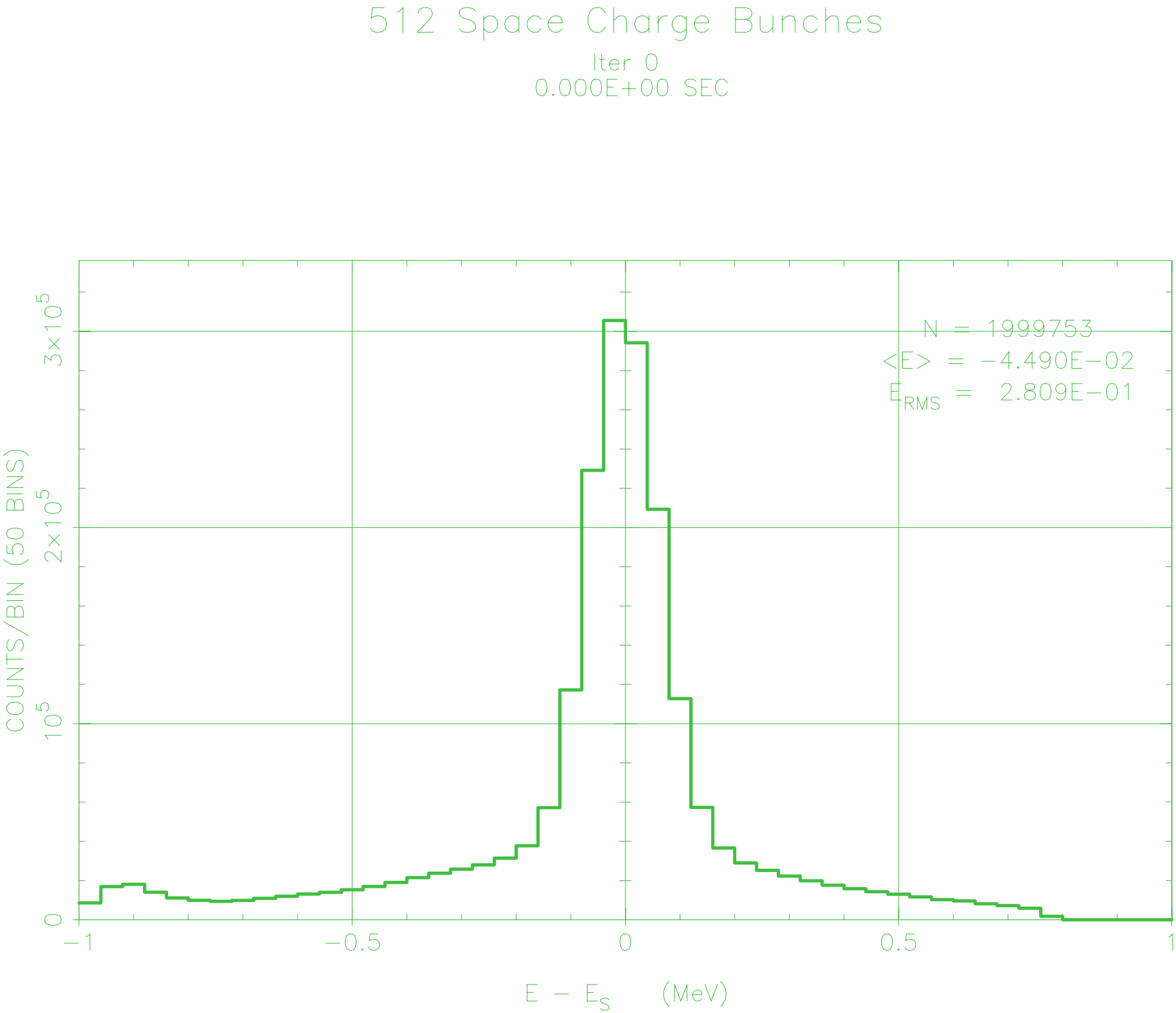
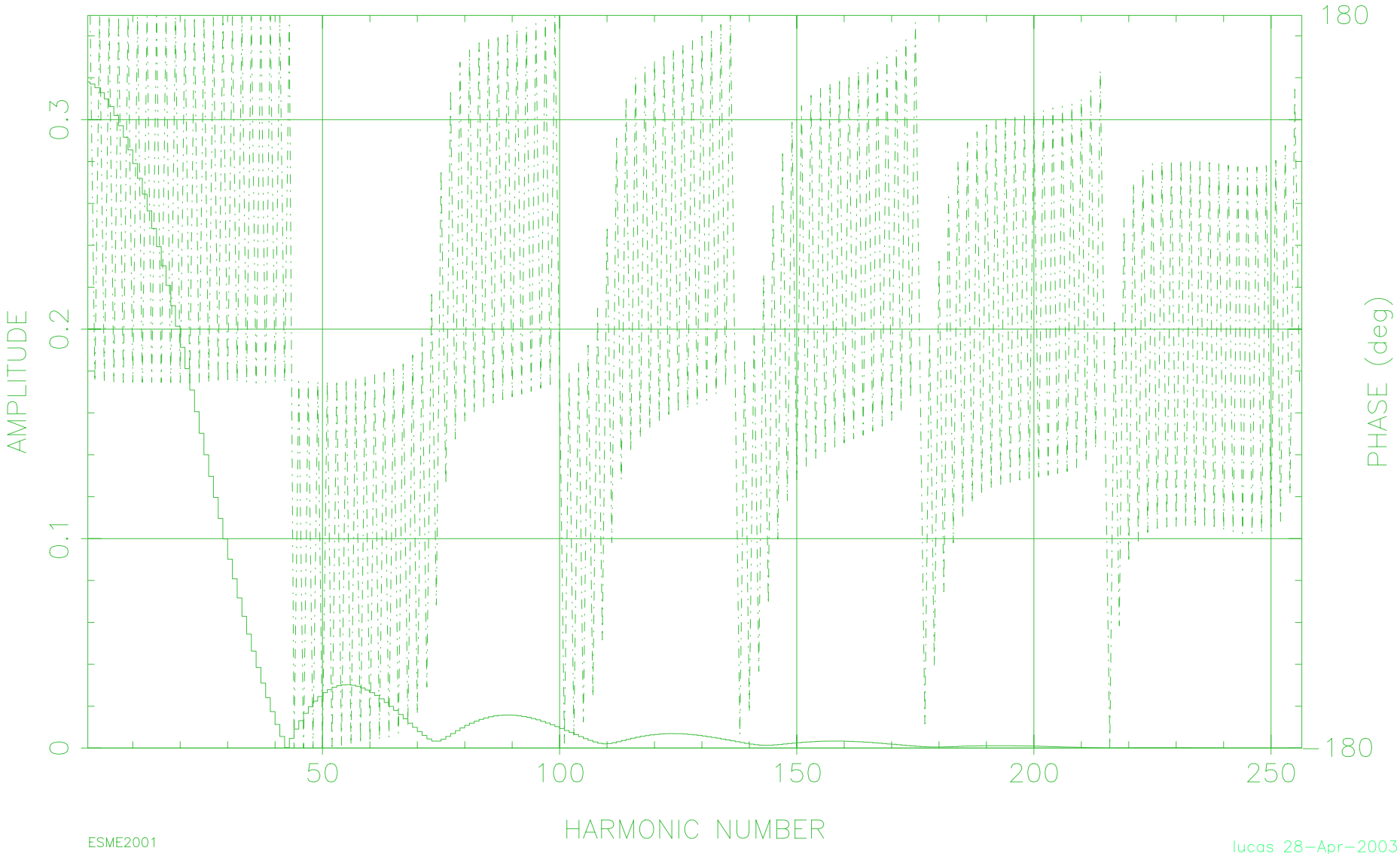

512 Space Charge Bunches
Iter 0
0.000E+00 SEC
N = 1999753
<E> = −4.490E−02
E_RMS = 2.809E−01
COUNTS/BIN (50 BINS)
3×10^5
2×10^5
10^5
0
−1
−0.5
0
0.5
1
E − E_S (MeV)

512 Space Charge Bunches

Iter 0
0.000E+00 SEC



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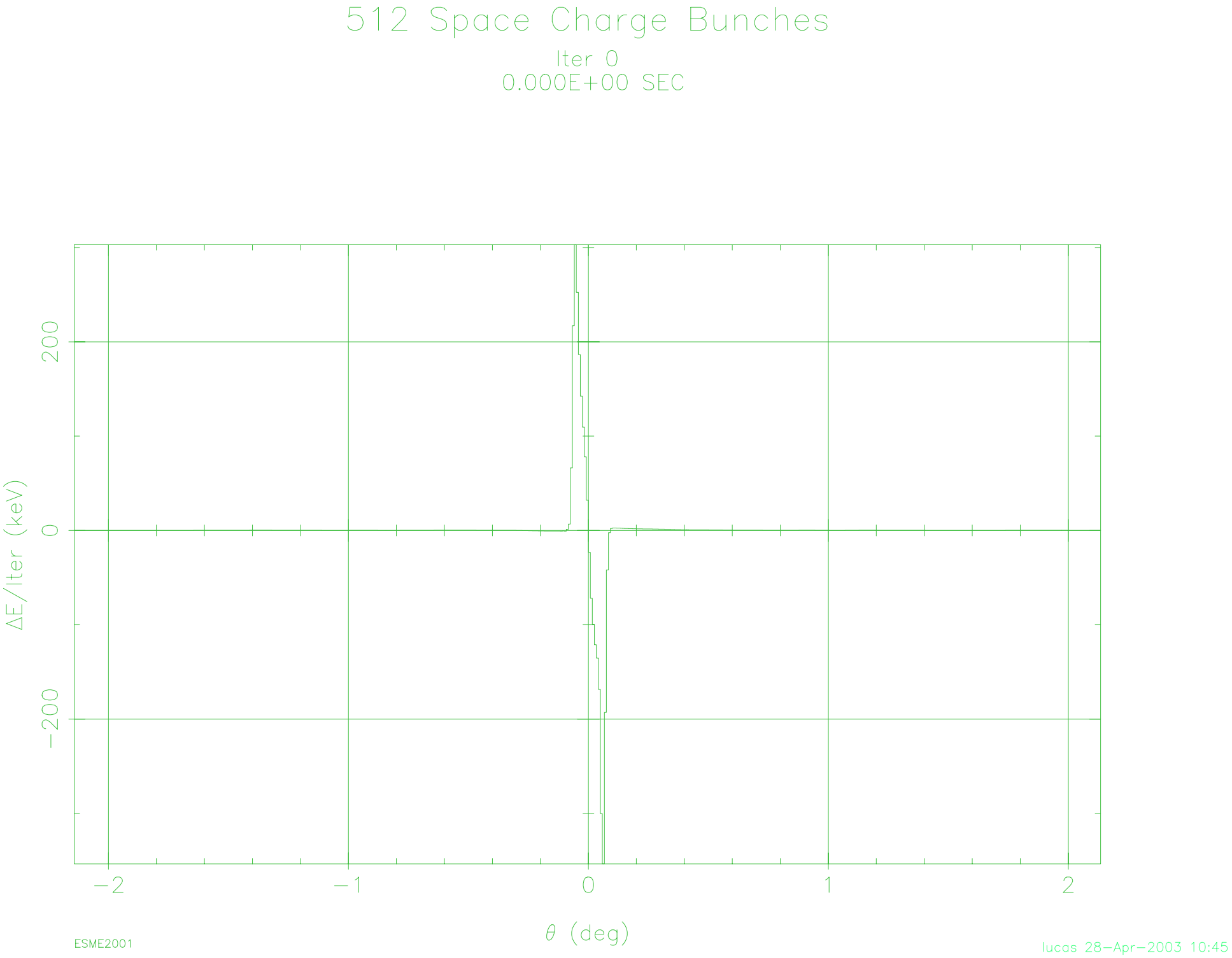
512 Space Charge Bunches
Iter 0
0.000E+00 SEC
200
0
−200
ΔE/Iter (keV)
−2
−1
0
1
2
θ (deg)
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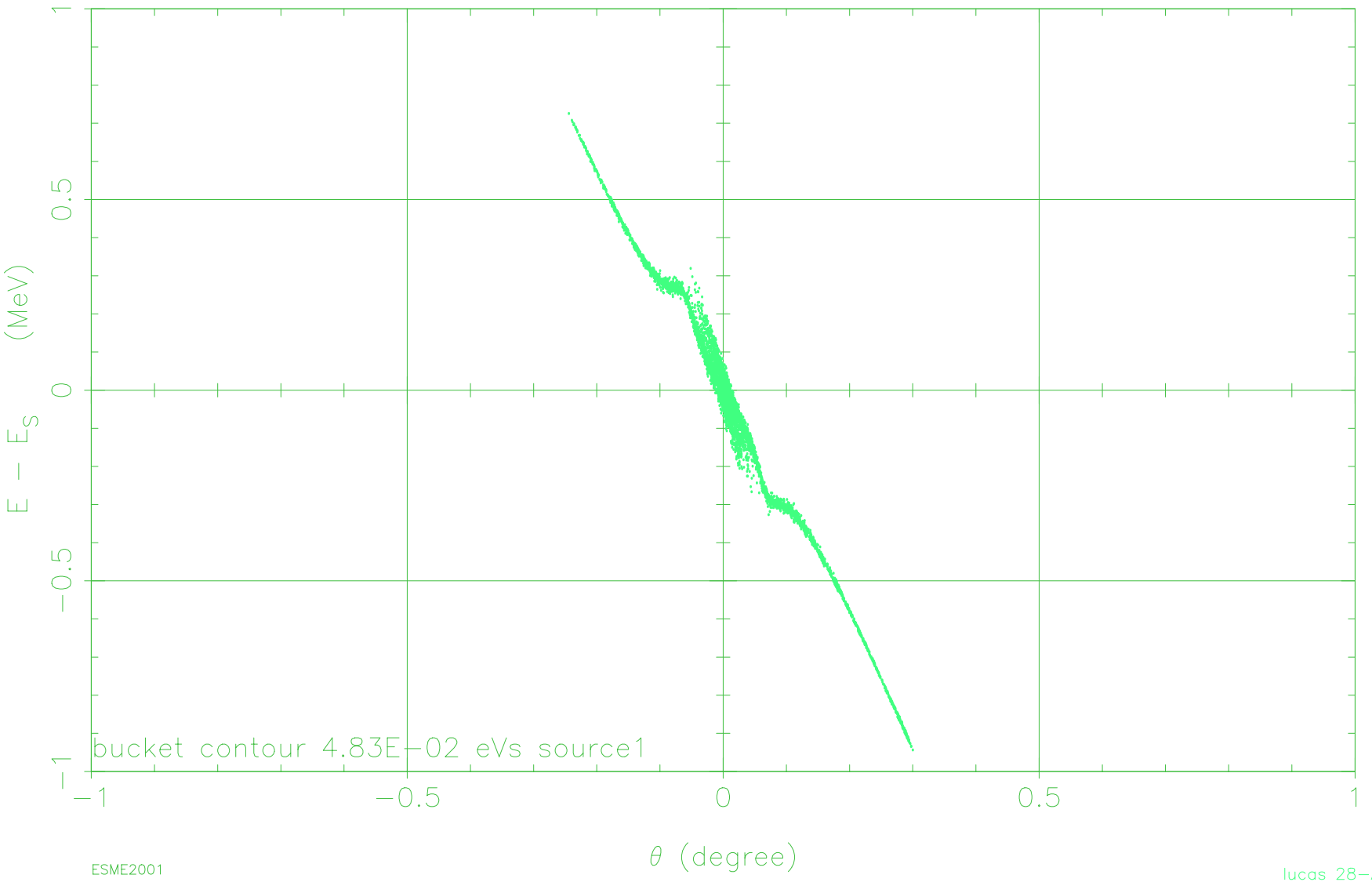
512 Space Charge Bunches

Iter 1 2.218E−06 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
1.4828E+00	4.8320E−02	1.3383E+03	84	2.000E−01	0.000E+00
ν_S (turn^{-1})	pdot (MeV s^{-1})	η			
4.2415E−02	0.0000E+00	−4.5783E−01			
τ (s)	S_b (eV s)	N			
2.2182E−06	7.5921E−05	2000000			



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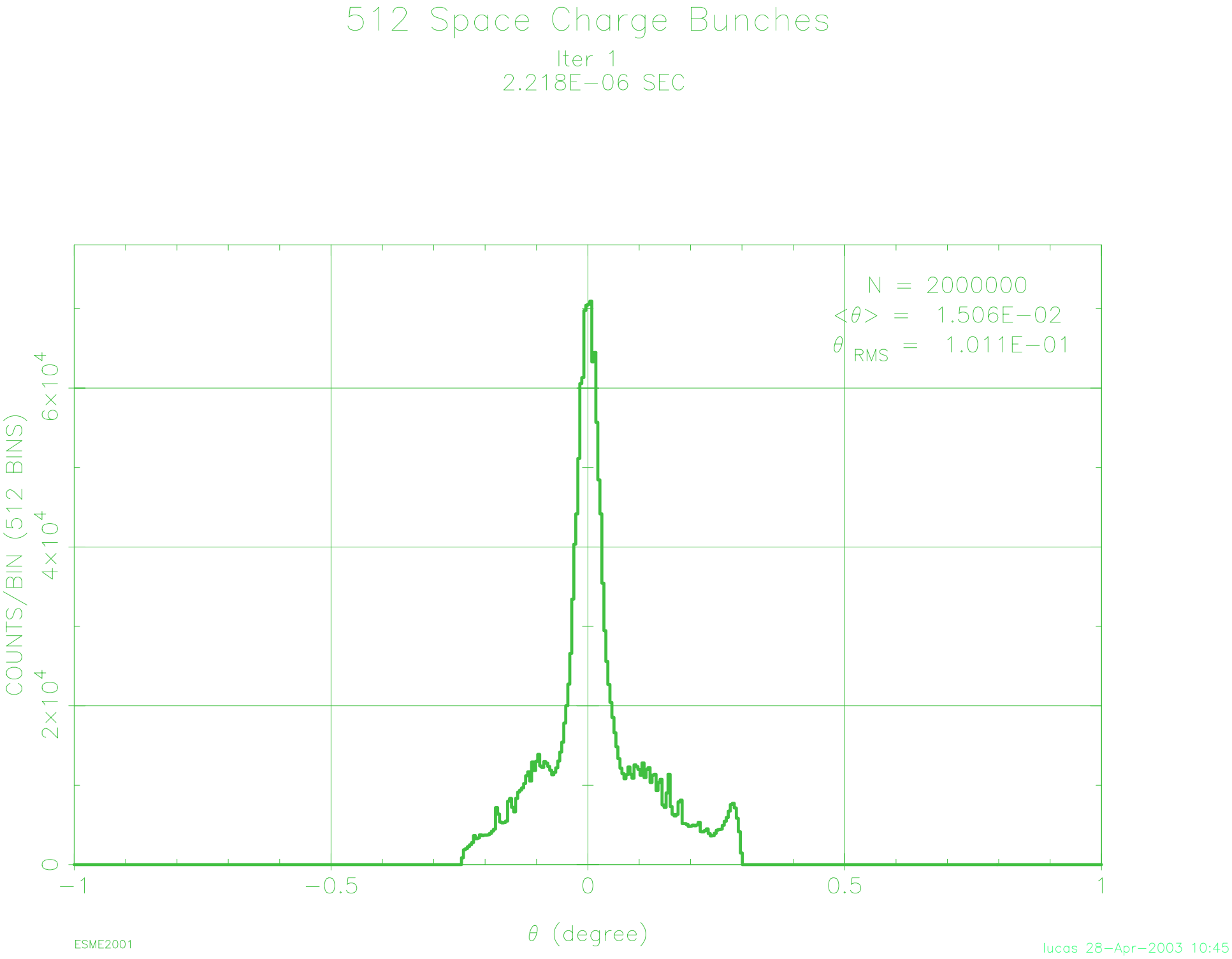
512 Space Charge Bunches
Iter 1
2.218E−06 SEC
N = 2000000
<θ> = 1.506E−02
θ RMS = 1.011E−01
COUNTS/BIN (512 BINS)
6×10^4
4×10^4
2×10^4
0
−1
−0.5
0
0.5
1
θ (degree)
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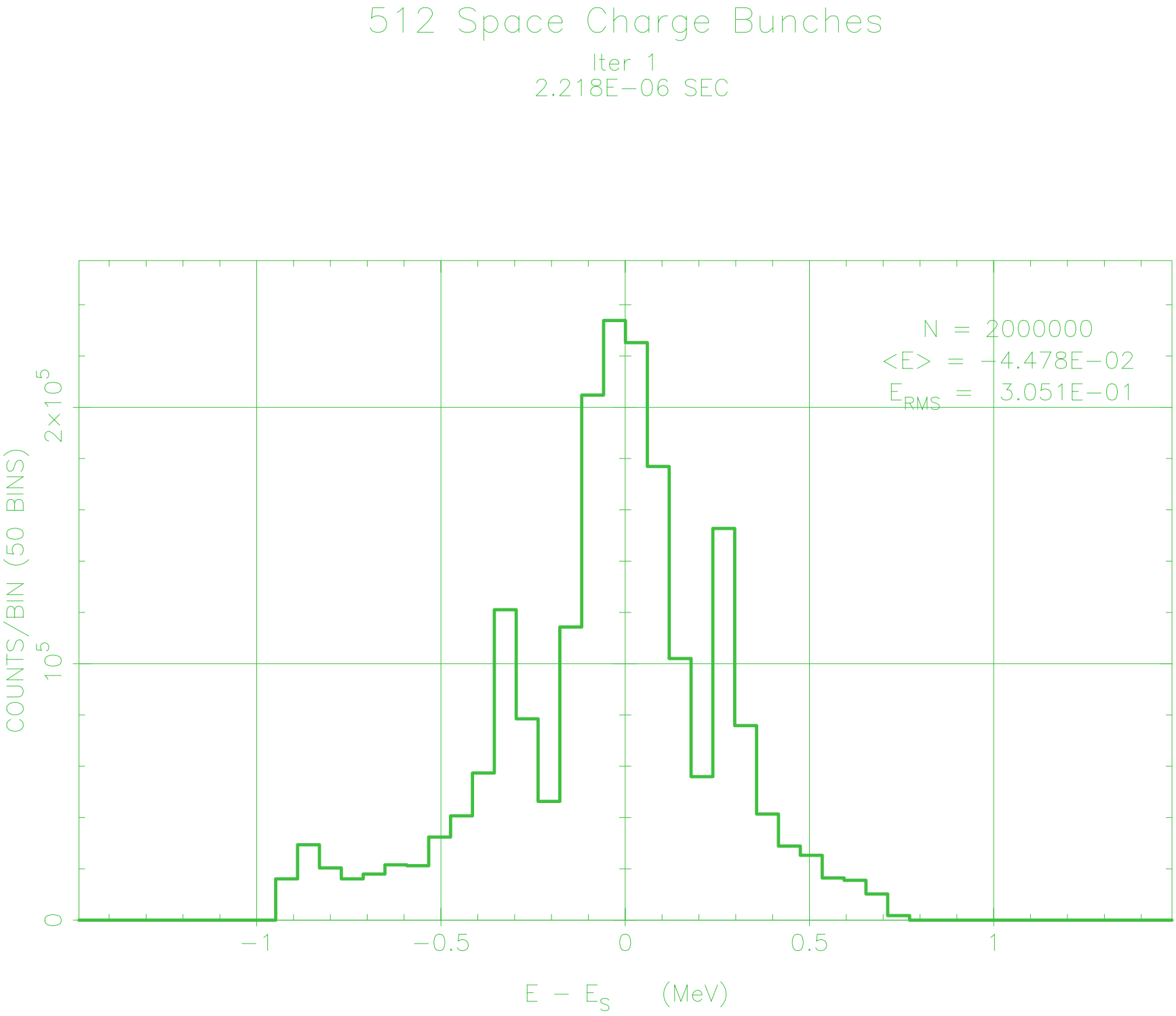
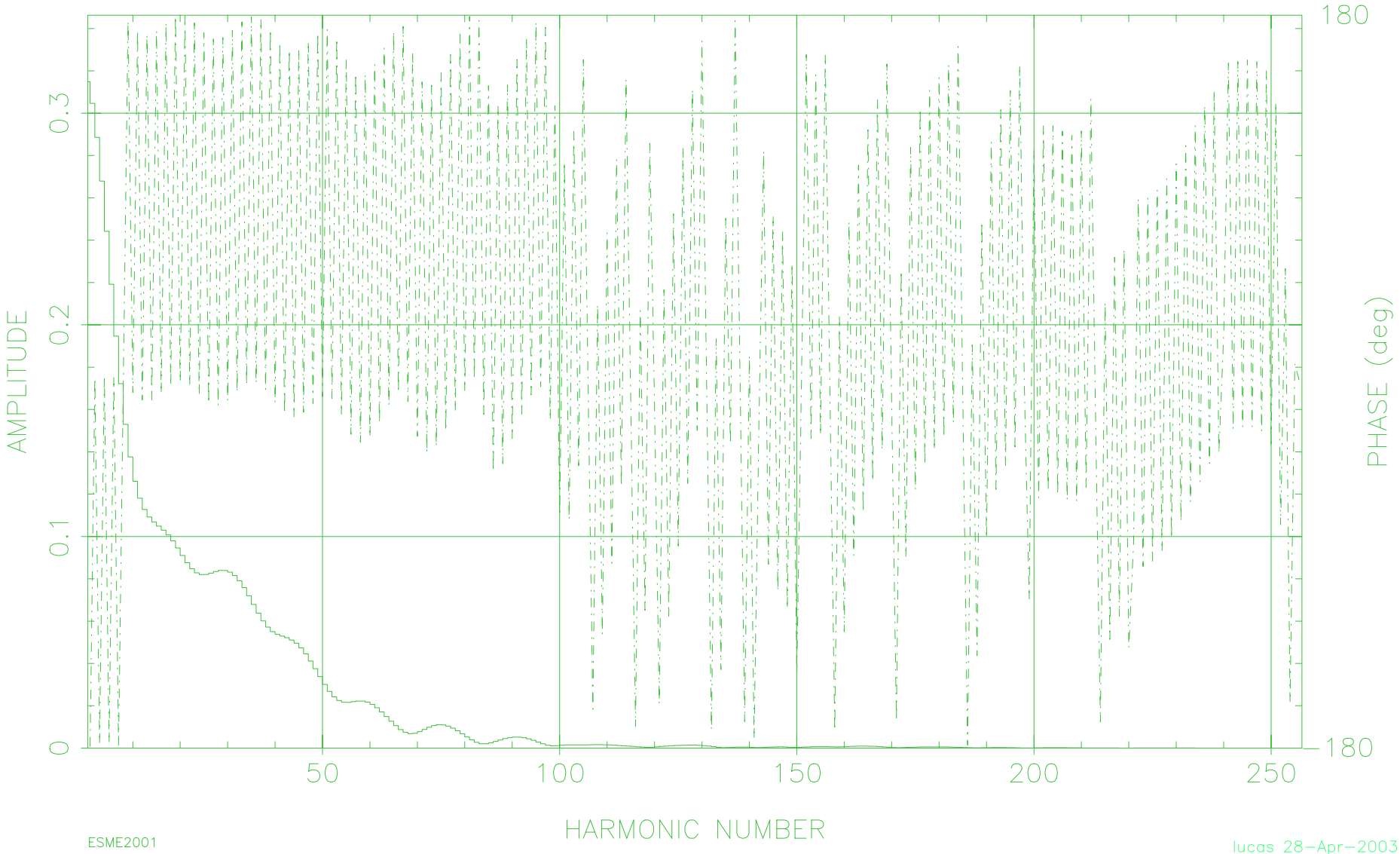

512 Space Charge Bunches
Iter 1
2.218E−06 SEC
N = 2000000
<E> = −4.478E−02
E_RMS = 3.051E−01
COUNTS/BIN (50 BINS)
2×10^5
10^5
0
−1
−0.5
0
0.5
1
E − E_S (MeV)

512 Space Charge Bunches

Iter 1
2.218E−06 SEC



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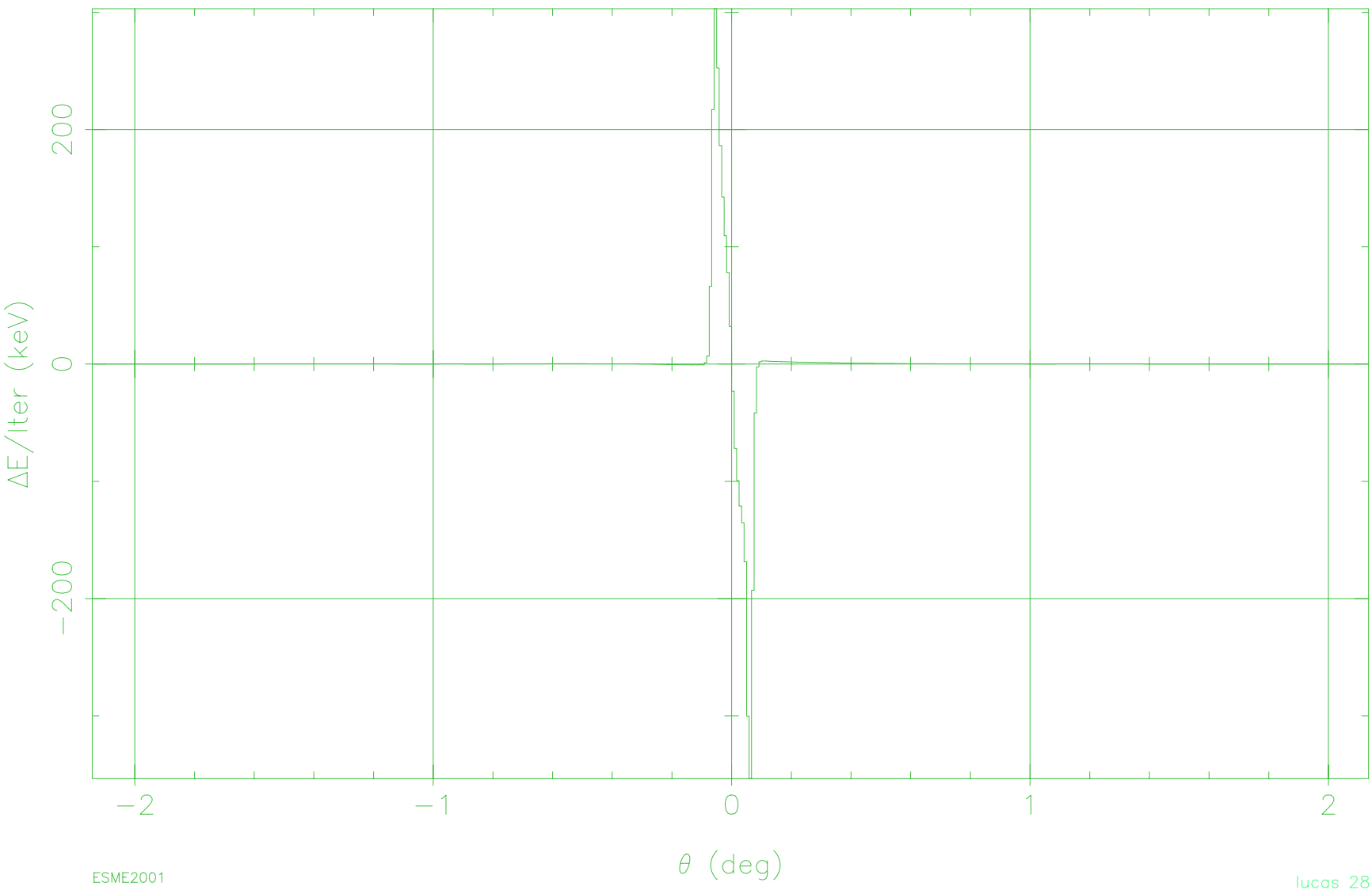
512 Space Charge Bunches

Iter 1
2.218E−06 SEC



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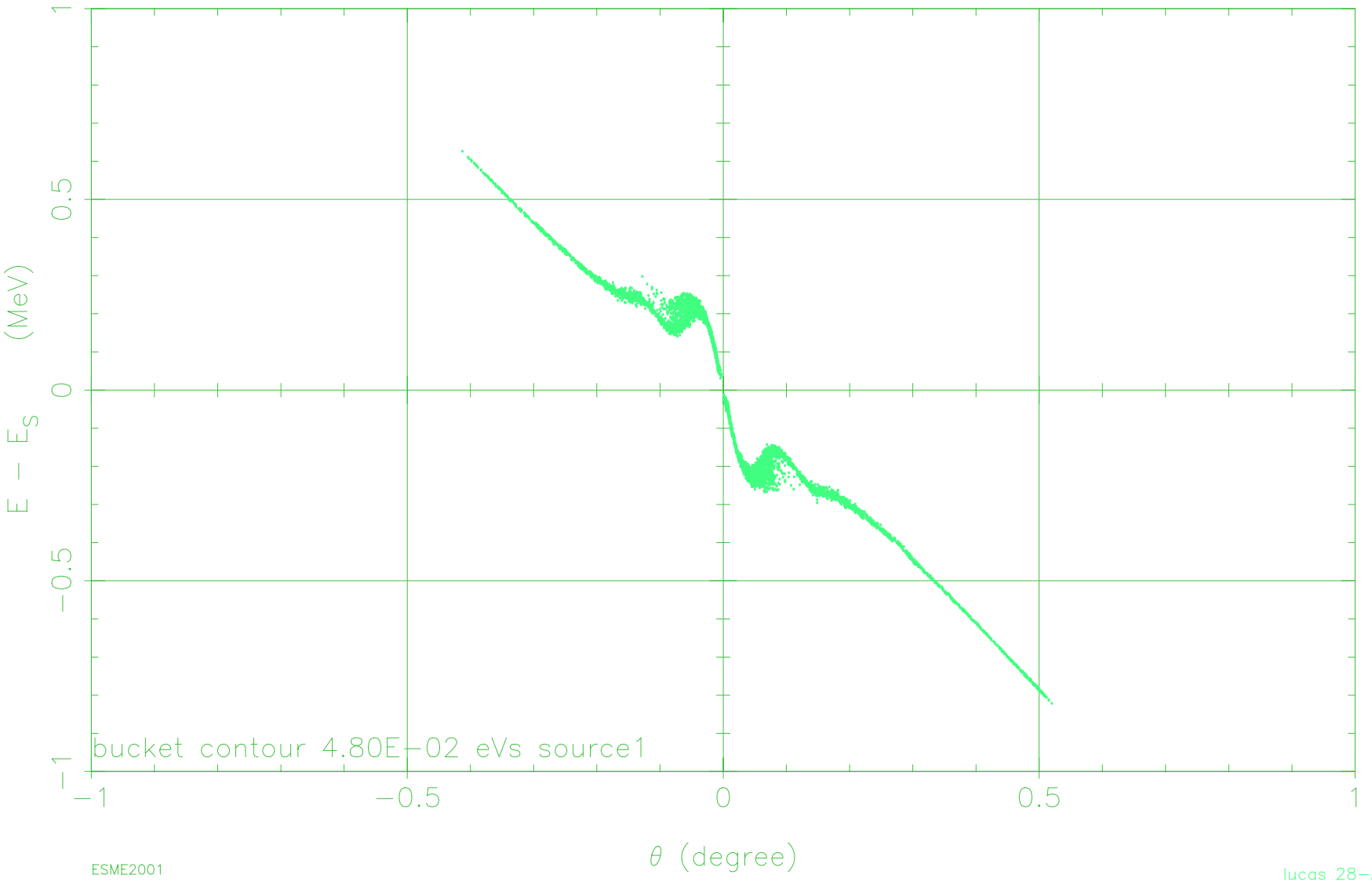
512 Space Charge Bunches

Iter 2 4.436E−06 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
1.4757E+00	4.8008E−02	1.3383E+03	84	2.000E−01	0.000E+00
ν_S (turn^{-1})	pdot (MeV s^{-1})	η			
4.2415E−02	0.0000E+00	−4.5783E−01			
τ (s)	S_b (eV s)	N			
2.2182E−06	2.8394E−04	2000000			



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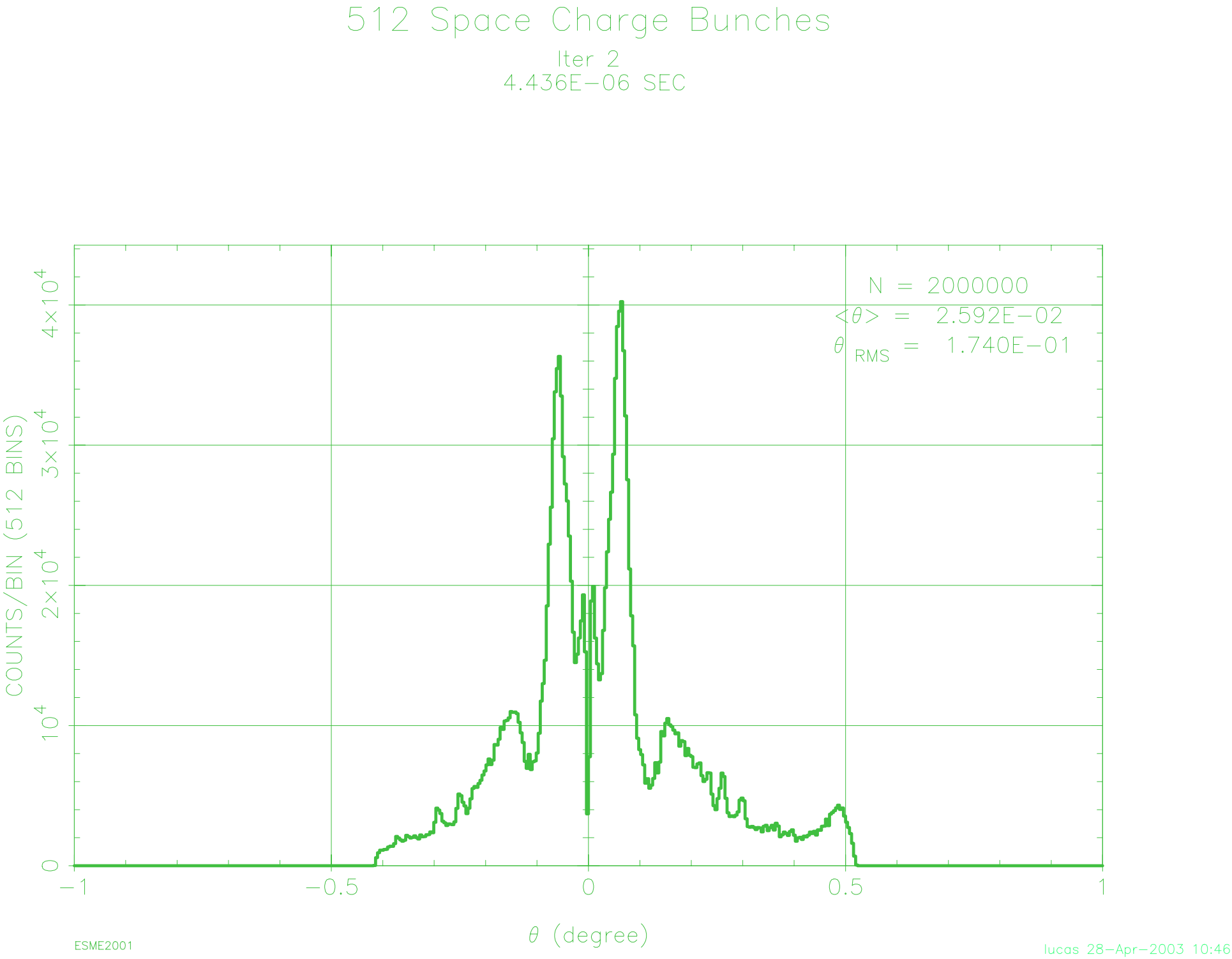
512 Space Charge Bunches
Iter 2
4.436E−06 SEC
N = 2000000
<θ> = 2.592E−02
θ RMS = 1.740E−01
COUNTS/BIN (512 BINS)
4×10^4
3×10^4
2×10^4
10^4
0
−1
−0.5
0
0.5
1
θ (degree)
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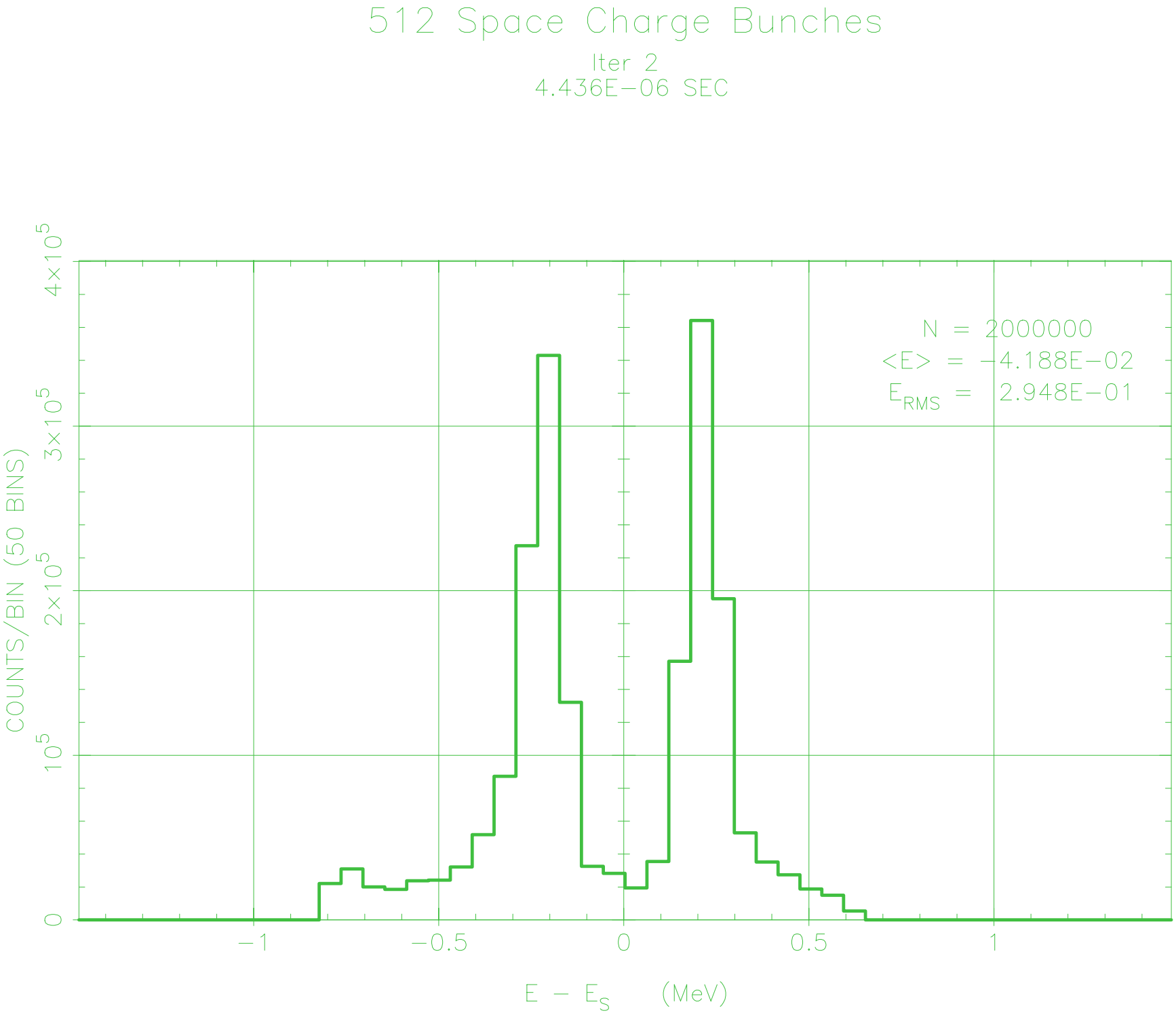
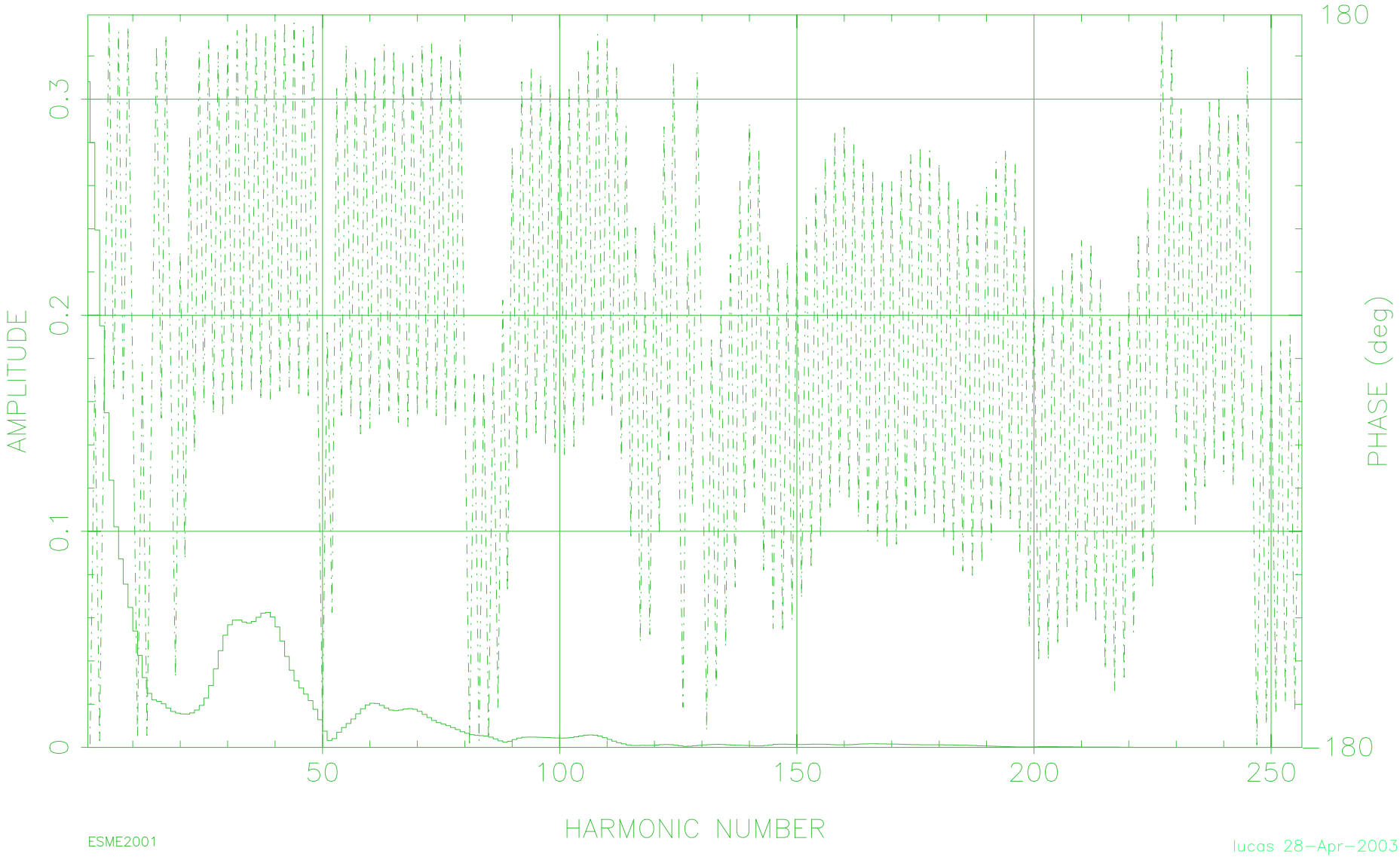

512 Space Charge Bunches
Iter 2
4.436E−06 SEC
N = 2000000
<E> = −4.188E−02
E_RMS = 2.948E−01
COUNTS/BIN (50 BINS)
4×10^5
3×10^5
2×10^5
10^5
0
−1
−0.5
0
0.5
1
E − E_S (MeV)

512 Space Charge Bunches

Iter 2
4.436E−06 SEC



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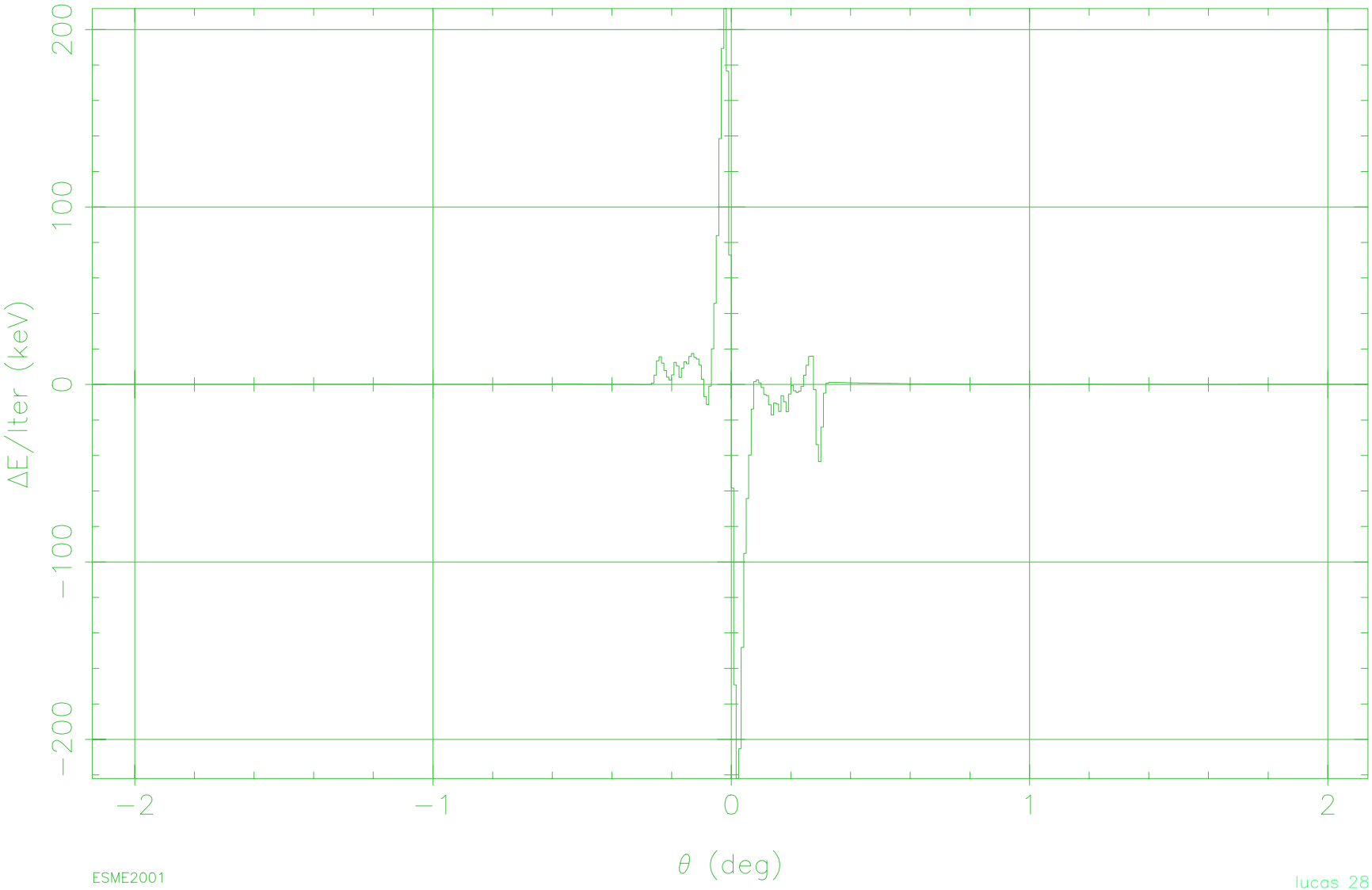
512 Space Charge Bunches

Iter 2
4.436E−06 SEC



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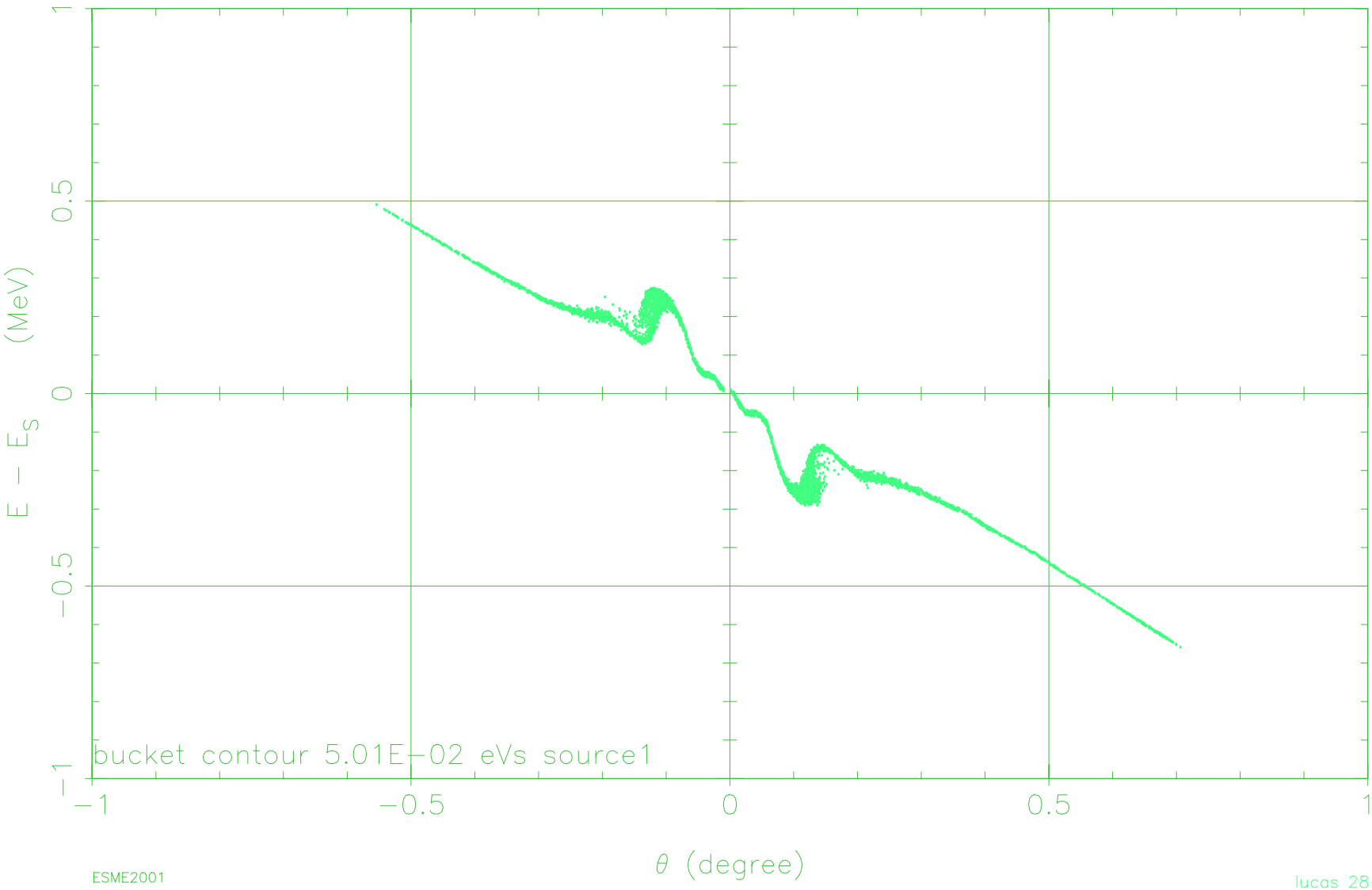
512 Space Charge Bunches

Iter 3 6.655E−06 sec

H_B (MeV)	S_B (eV s)	E_S (MeV)	h	V (MV)	ψ (deg)
1.4922E+00	5.0074E−02	1.3383E+03	84	2.000E−01	0.000E+00
ν_S (turn^{-1})	pdot (MeV s^{-1})	η			
4.2415E−02	0.0000E+00	−4.5783E−01			
τ (s)	S_b (eV s)	N			
2.2182E−06	3.7575E−04	2000000			



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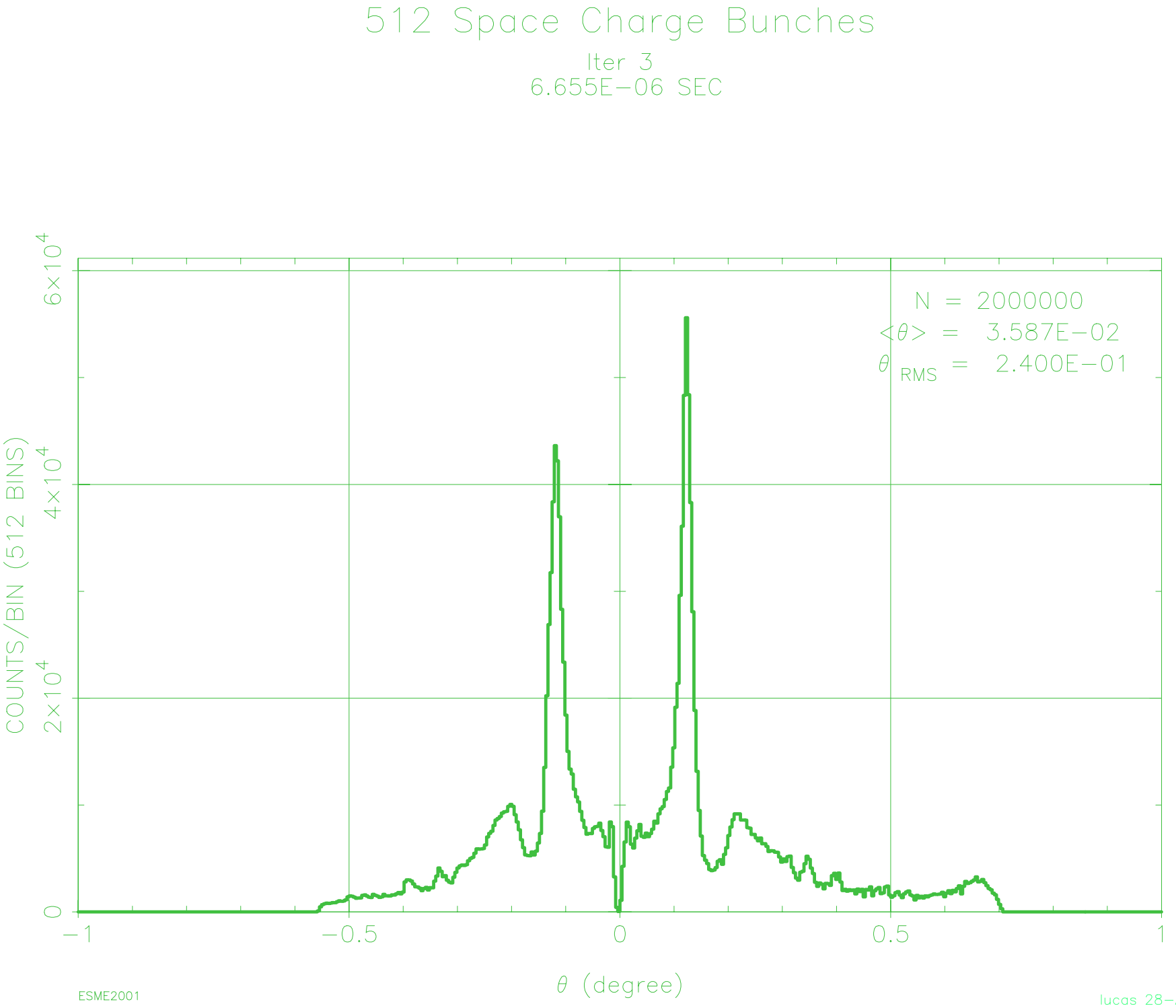
512 Space Charge Bunches
Iter 3
6.655E−06 SEC
N = 2000000
<θ> = 3.587E−02
θ RMS = 2.400E−01
COUNTS/BIN (512 BINS)
6×10^4
4×10^4
2×10^4
0
−1
−0.5
0
0.5
1
θ (degree)
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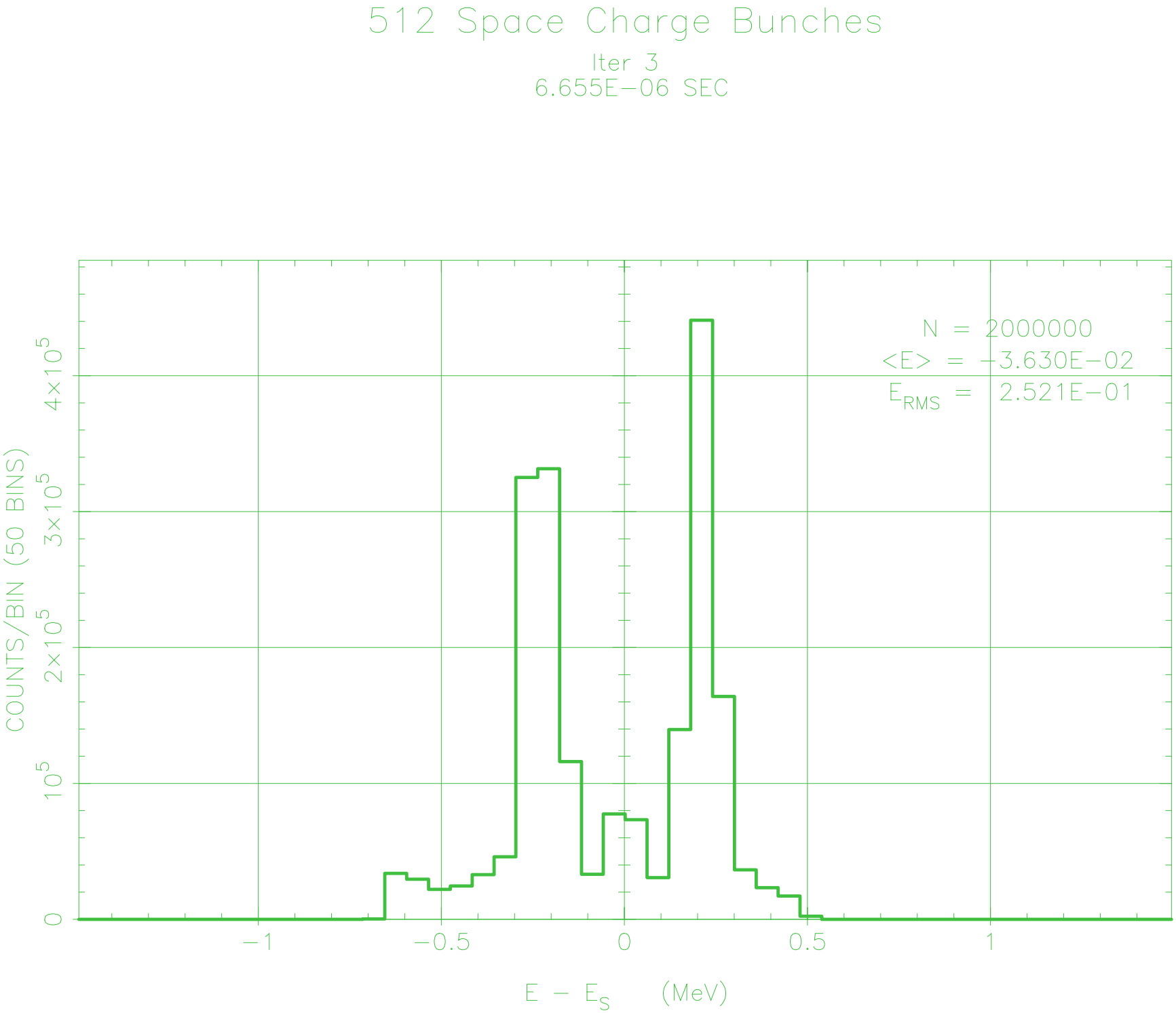
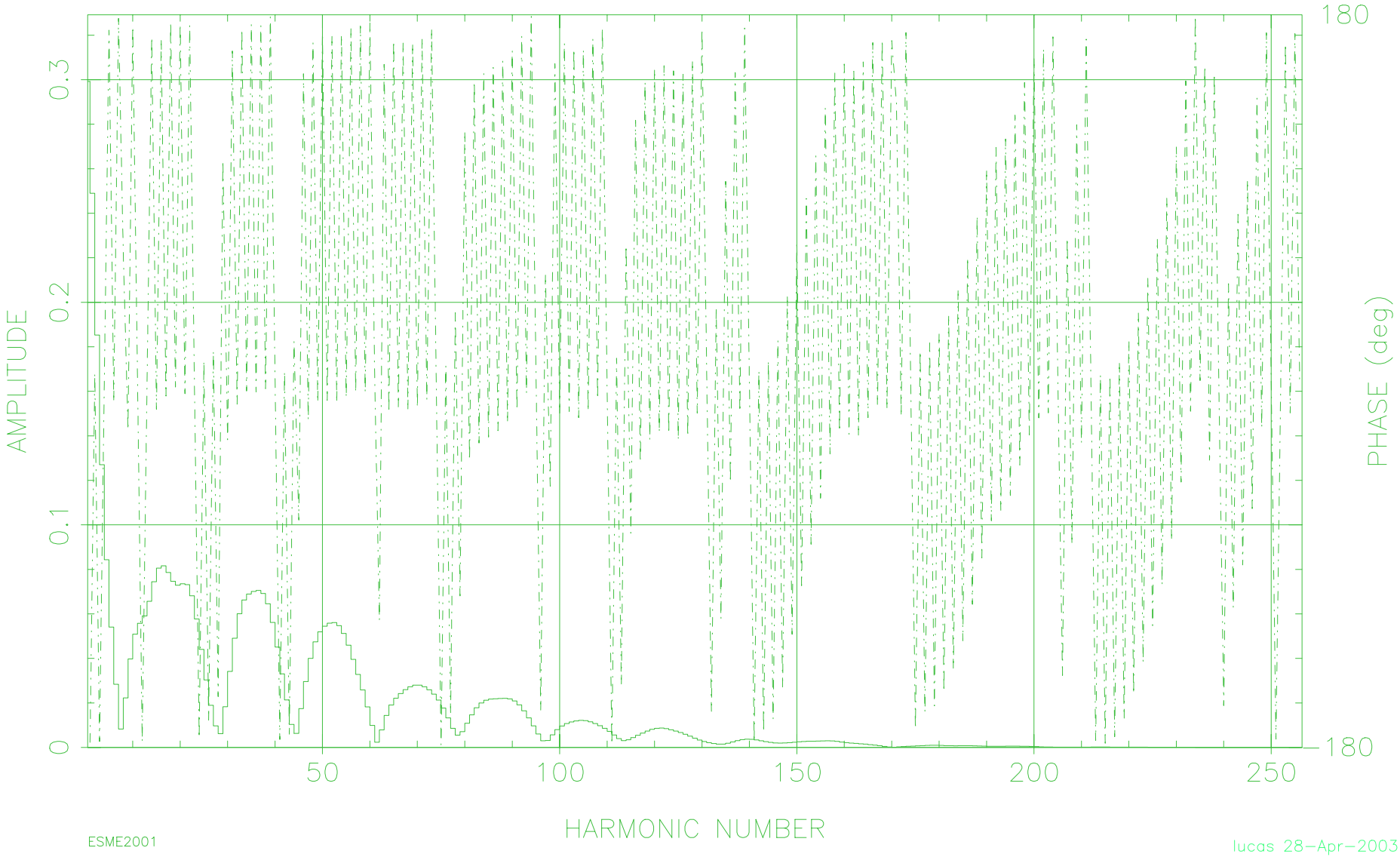

512 Space Charge Bunches
Iter 3
6.655E−06 SEC
N = 2000000
<E> = −3.630E−02
E_RMS = 2.521E−01
COUNTS/BIN (50 BINS)
0
10^5
2×10^5
3×10^5
4×10^5
−1
−0.5
0
0.5
1
E − E_S (MeV)

512 Space Charge Bunches

Iter 3
6.655E−06 SEC



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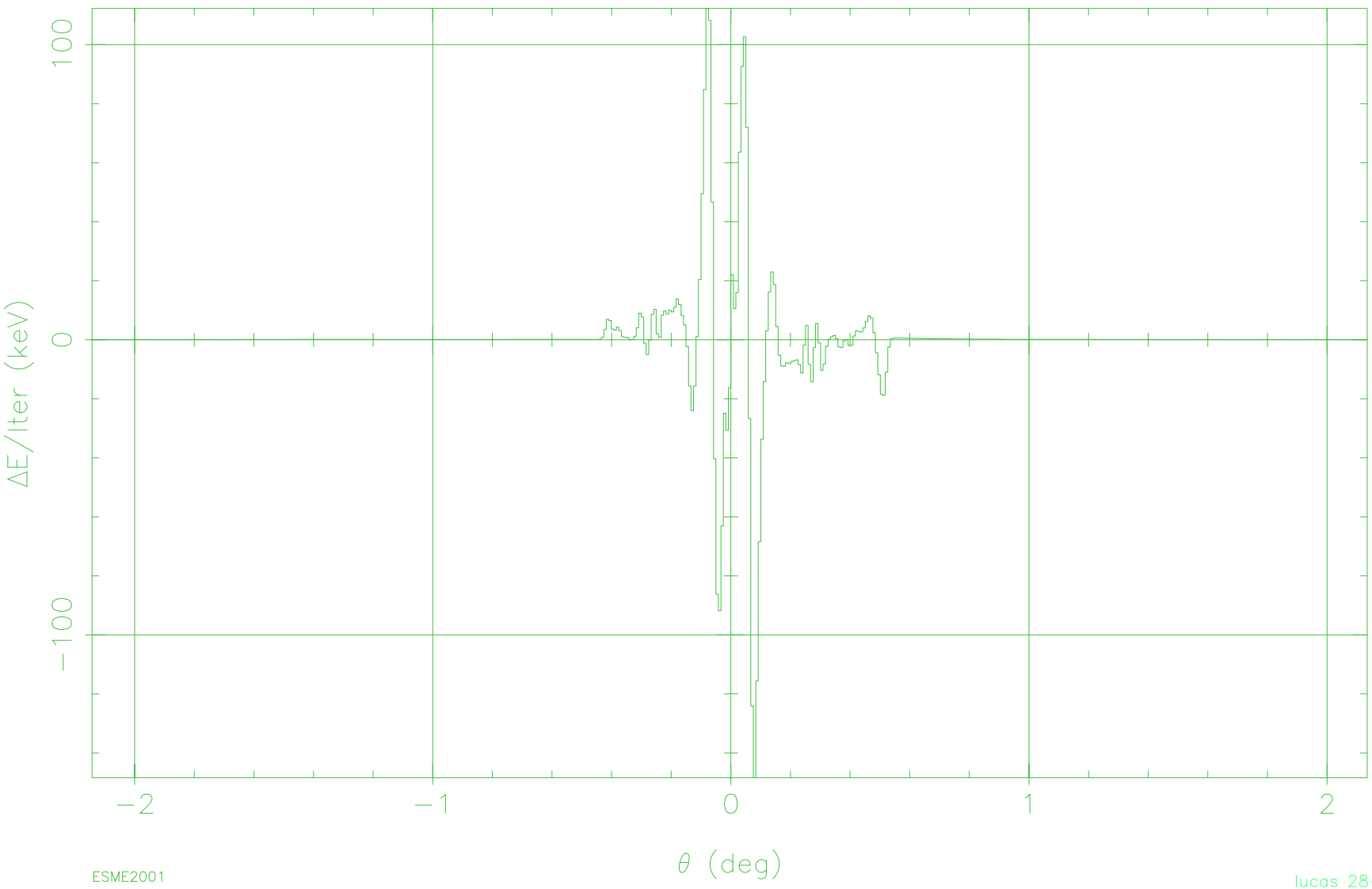
512 Space Charge Bunches

Iter 3
6.655E−06 SEC



ESME2001

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