Author: R. Krivec
Institution: J. Stefan Institute
File: ehnu3_x_final_r16
Remarks:
CFHHM energy eigenvalue and expectation
values as functions of Km, for different
parametrizations of the correlation function

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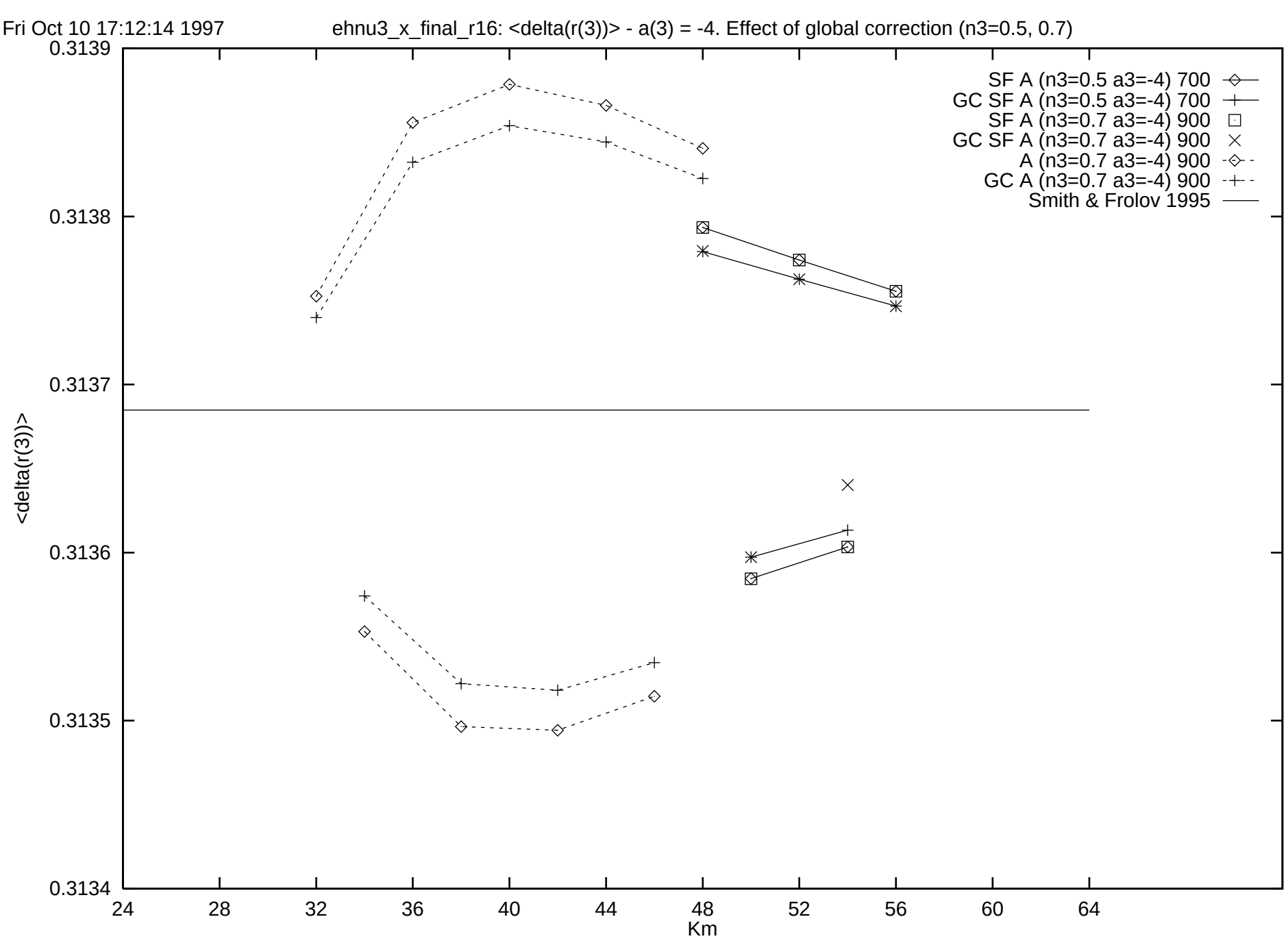
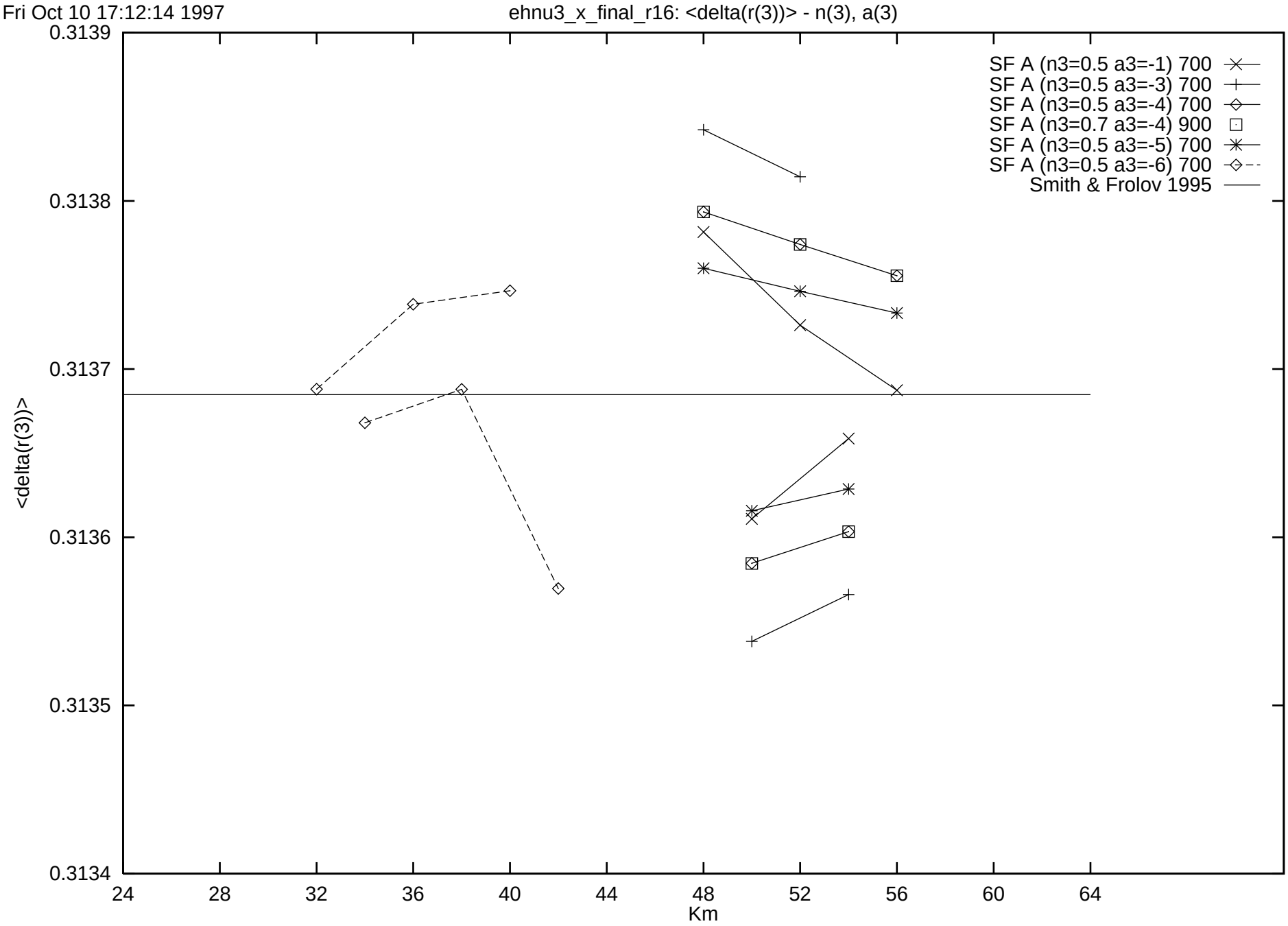
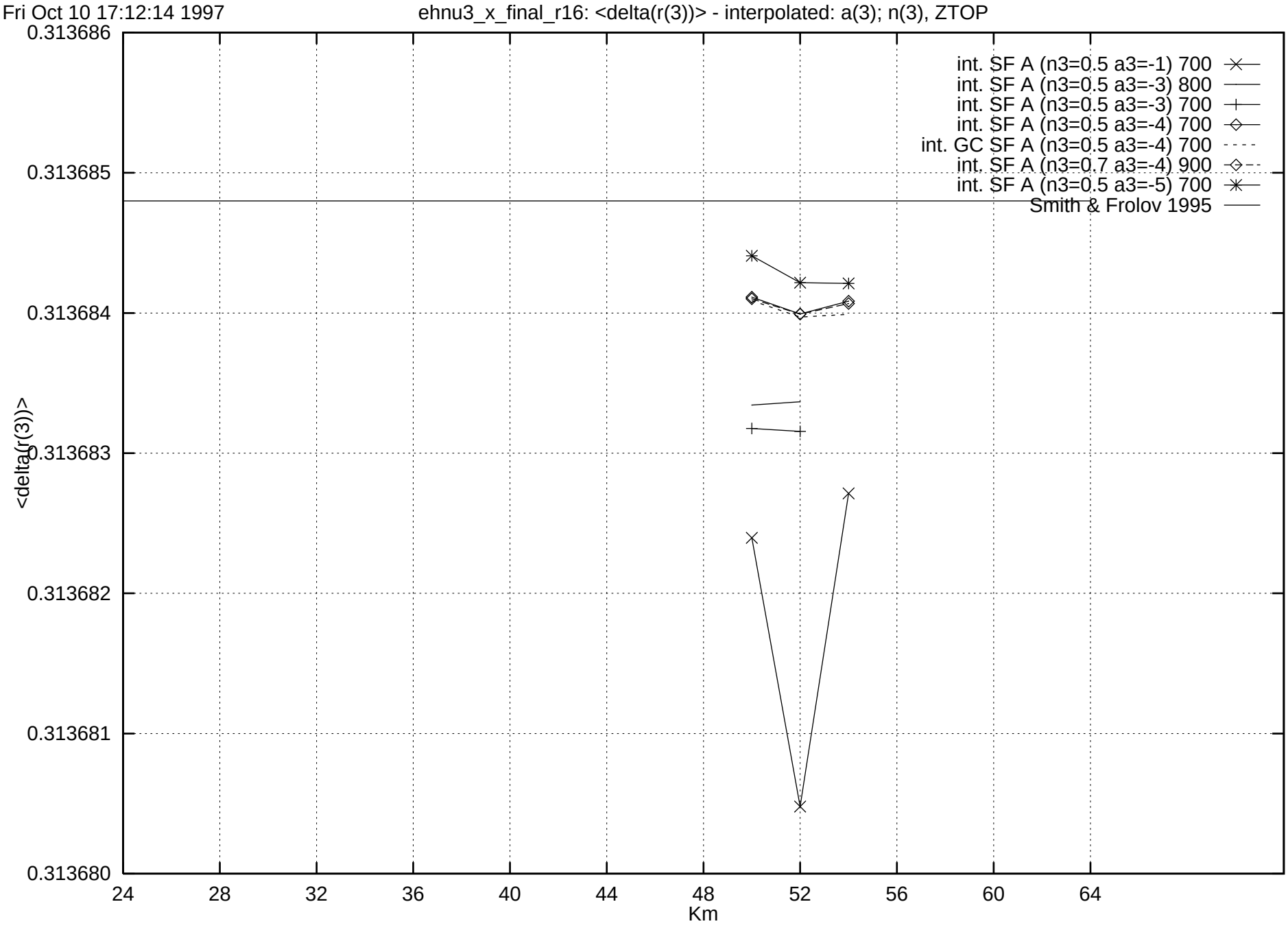
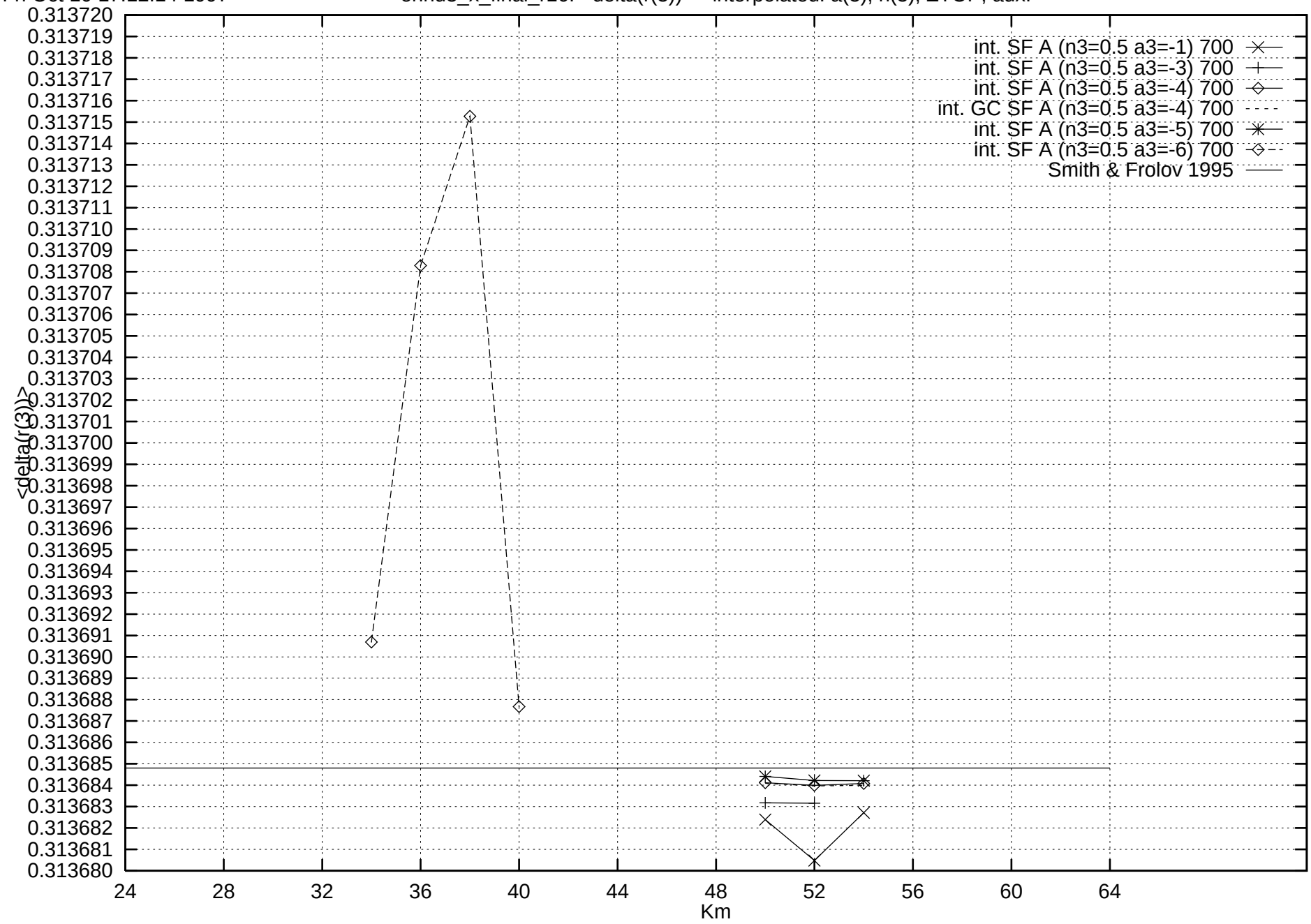
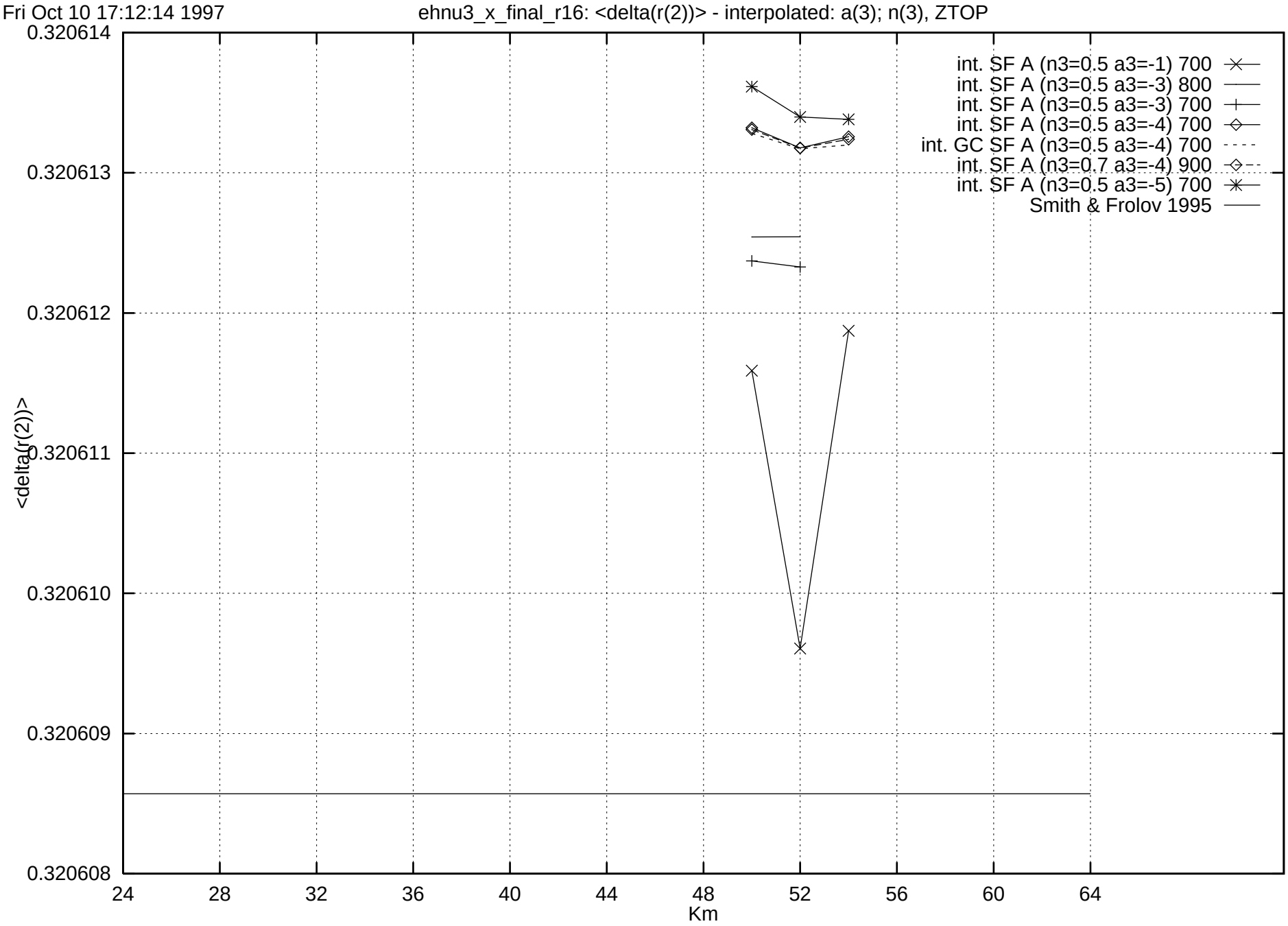
Pre-publication results.

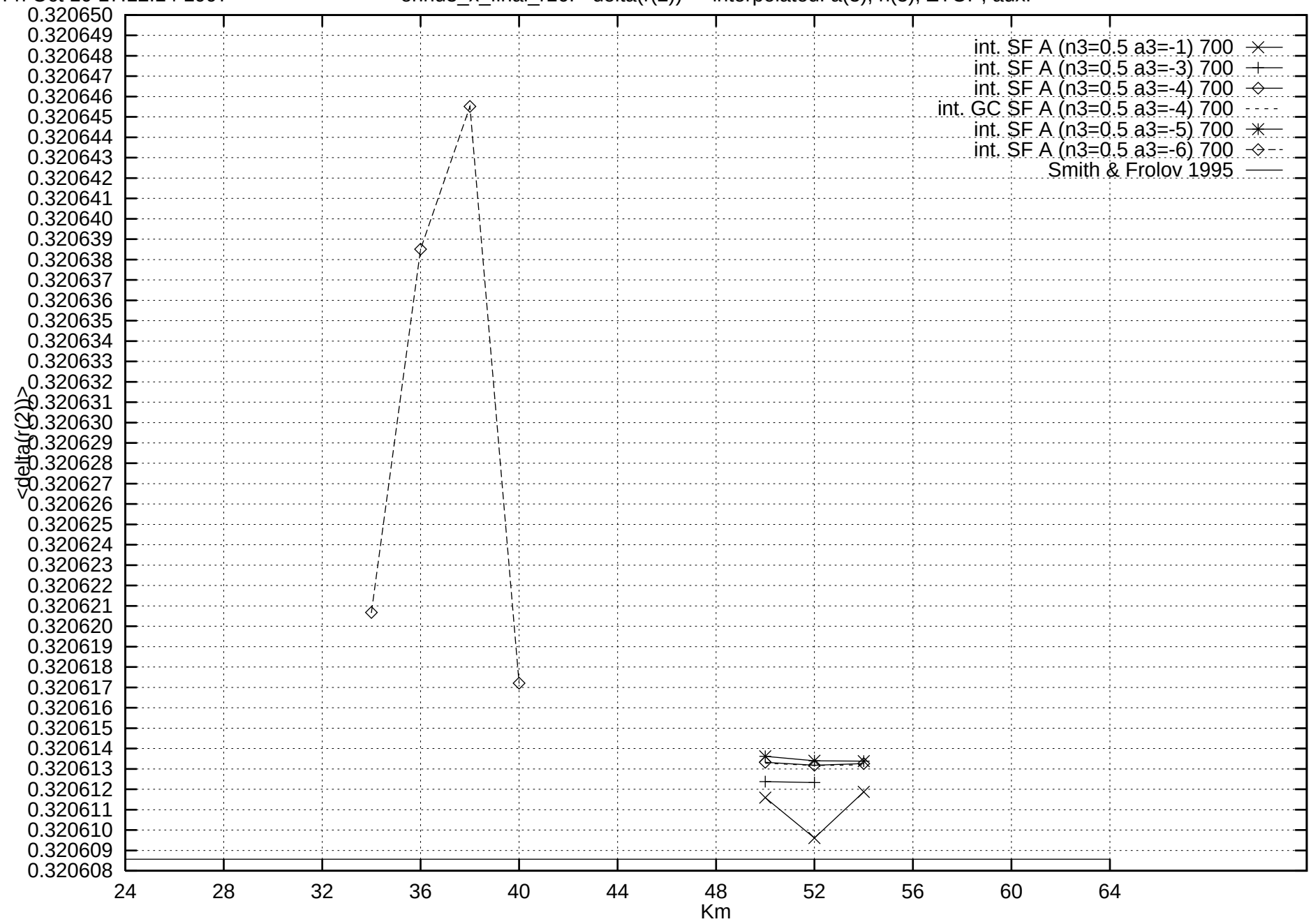

Fri Oct 10 17:12:14 1997
ehnu3_x_final_r16: <delta(r(3))> - a(3) = -4. Effect of global correction (n3=0.5, 0.7)
SF A (n3=0.5 a3=-4) 700
GC SF A (n3=0.5 a3=-4) 700
SF A (n3=0.7 a3=-4) 900
GC SF A (n3=0.7 a3=-4) 900
A (n3=0.7 a3=-4) 900
GC A (n3=0.7 a3=-4) 900
Smith & Frolov 1995
<delta(r(3))>
0.3139
0.3138
0.3137
0.3136
0.3135
0.3134
24
28
32
36
40
44
48
52
56
60
64
Km

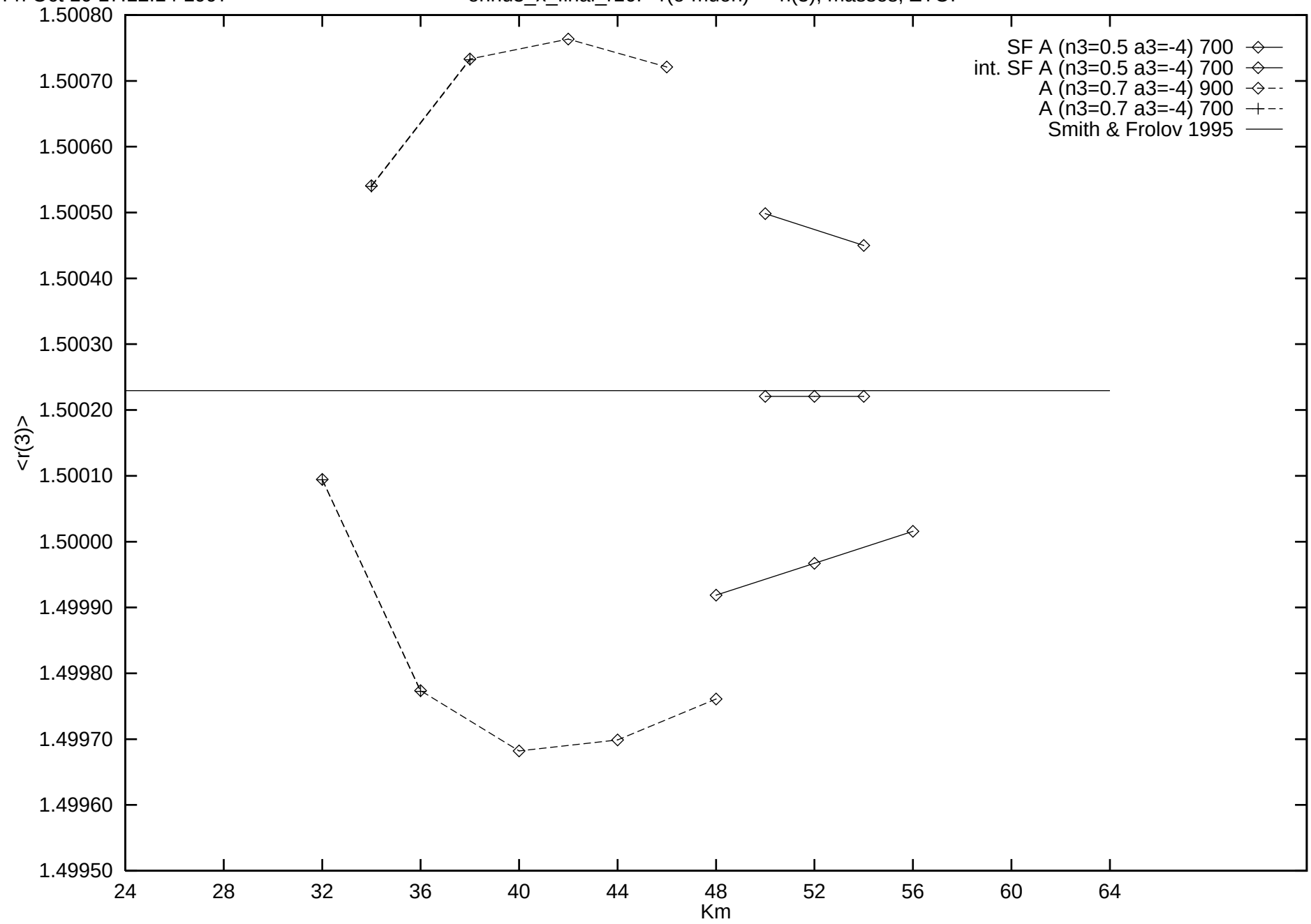

Fri Oct 10 17:12:14 1997
ehnu3_x_final_r16: <delta(r(3))> - n(3), a(3)
SF A (n3=0.5 a3=-1) 700
SF A (n3=0.5 a3=-3) 700
SF A (n3=0.5 a3=-4) 700
SF A (n3=0.7 a3=-4) 900
SF A (n3=0.5 a3=-5) 700
SF A (n3=0.5 a3=-6) 700
Smith & Frolov 1995
<delta(r(3))>
0.3139
0.3138
0.3137
0.3136
0.3135
0.3134
24
28
32
36
40
44
48
52
56
60
64
Km


Fri Oct 10 17:12:14 1997
ehnu3_x_final_r16: <delta(r(3))> - interpolated: a(3); n(3), ZTOP
int. SF A (n3=0.5 a3=-1) 700
int. SF A (n3=0.5 a3=-3) 800
int. SF A (n3=0.5 a3=-3) 700
int. SF A (n3=0.5 a3=-4) 700
int. GC SF A (n3=0.5 a3=-4) 700
int. SF A (n3=0.7 a3=-4) 900
int. SF A (n3=0.5 a3=-5) 700
Smith & Frolov 1995
0.313686
0.313685
0.313684
0.313683
0.313682
0.313681
0.313680
<delta(r(3))>
24
28
32
36
40
44
48
52
56
60
64
Km


Fri Oct 10 17:12:14 1997
ehnu3_x_final_r16: <delta(r(3))> - interpolated: a(3); n(3), ZTOP, aux.
<delta(r(3))>
Km
int. SF A (n3=0.5 a3=-1) 700
int. SF A (n3=0.5 a3=-3) 700
int. SF A (n3=0.5 a3=-4) 700
int. GC SF A (n3=0.5 a3=-4) 700
int. SF A (n3=0.5 a3=-5) 700
int. SF A (n3=0.5 a3=-6) 700
Smith & Frolov 1995
0.313720
0.313719
0.313718
0.313717
0.313716
0.313715
0.313714
0.313713
0.313712
0.313711
0.313710
0.313709
0.313708
0.313707
0.313706
0.313705
0.313704
0.313703
0.313702
0.313701
0.313700
0.313699
0.313698
0.313697
0.313696
0.313695
0.313694
0.313693
0.313692
0.313691
0.313690
0.313689
0.313688
0.313687
0.313686
0.313685
0.313684
0.313683
0.313682
0.313681
0.313680
24
28
32
36
40
44
48
52
56
60
64


Fri Oct 10 17:12:14 1997
ehnu3_x_final_r16: <delta(r(2))> - interpolated: a(3); n(3), ZTOP
0.320614
0.320613
0.320612
0.320611
0.320610
0.320609
0.320608
<delta(r(2))>
24
28
32
36
40
44
48
52
56
60
64
Km
int. SF A (n3=0.5 a3=-1) 700
int. SF A (n3=0.5 a3=-3) 800
int. SF A (n3=0.5 a3=-3) 700
int. SF A (n3=0.5 a3=-4) 700
int. GC SF A (n3=0.5 a3=-4) 700
int. SF A (n3=0.7 a3=-4) 900
int. SF A (n3=0.5 a3=-5) 700
Smith & Frolov 1995


Fri Oct 10 17:12:14 1997
ehnu3_x_final_r16: <delta(r(2))> - interpolated: a(3); n(3), ZTOP, aux.
int. SF A (n3=0.5 a3=-1) 700
int. SF A (n3=0.5 a3=-3) 700
int. SF A (n3=0.5 a3=-4) 700
int. GC SF A (n3=0.5 a3=-4) 700
int. SF A (n3=0.5 a3=-5) 700
int. SF A (n3=0.5 a3=-6) 700
Smith & Frolov 1995
<delta(r(2))>
0.320650
0.320649
0.320648
0.320647
0.320646
0.320645
0.320644
0.320643
0.320642
0.320641
0.320640
0.320639
0.320638
0.320637
0.320636
0.320635
0.320634
0.320633
0.320632
0.320631
0.320630
0.320629
0.320628
0.320627
0.320626
0.320625
0.320624
0.320623
0.320622
0.320621
0.320620
0.320619
0.320618
0.320617
0.320616
0.320615
0.320614
0.320613
0.320612
0.320611
0.320610
0.320609
0.320608
24
28
32
36
40
44
48
52
56
60
64
Km


Fri Oct 10 17:12:14 1997
ehnu3_x_final_r16: <r(e-muon)> - n(3), masses, ZTOP
SF A (n3=0.5 a3=-4) 700
int. SF A (n3=0.5 a3=-4) 700
A (n3=0.7 a3=-4) 900
A (n3=0.7 a3=-4) 700
Smith & Frolov 1995
<r(3)>
Km
1.50080
1.50070
1.50060
1.50050
1.50040
1.50030
1.50020
1.50010
1.50000
1.49990
1.49980
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1.49960
1.49950
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28
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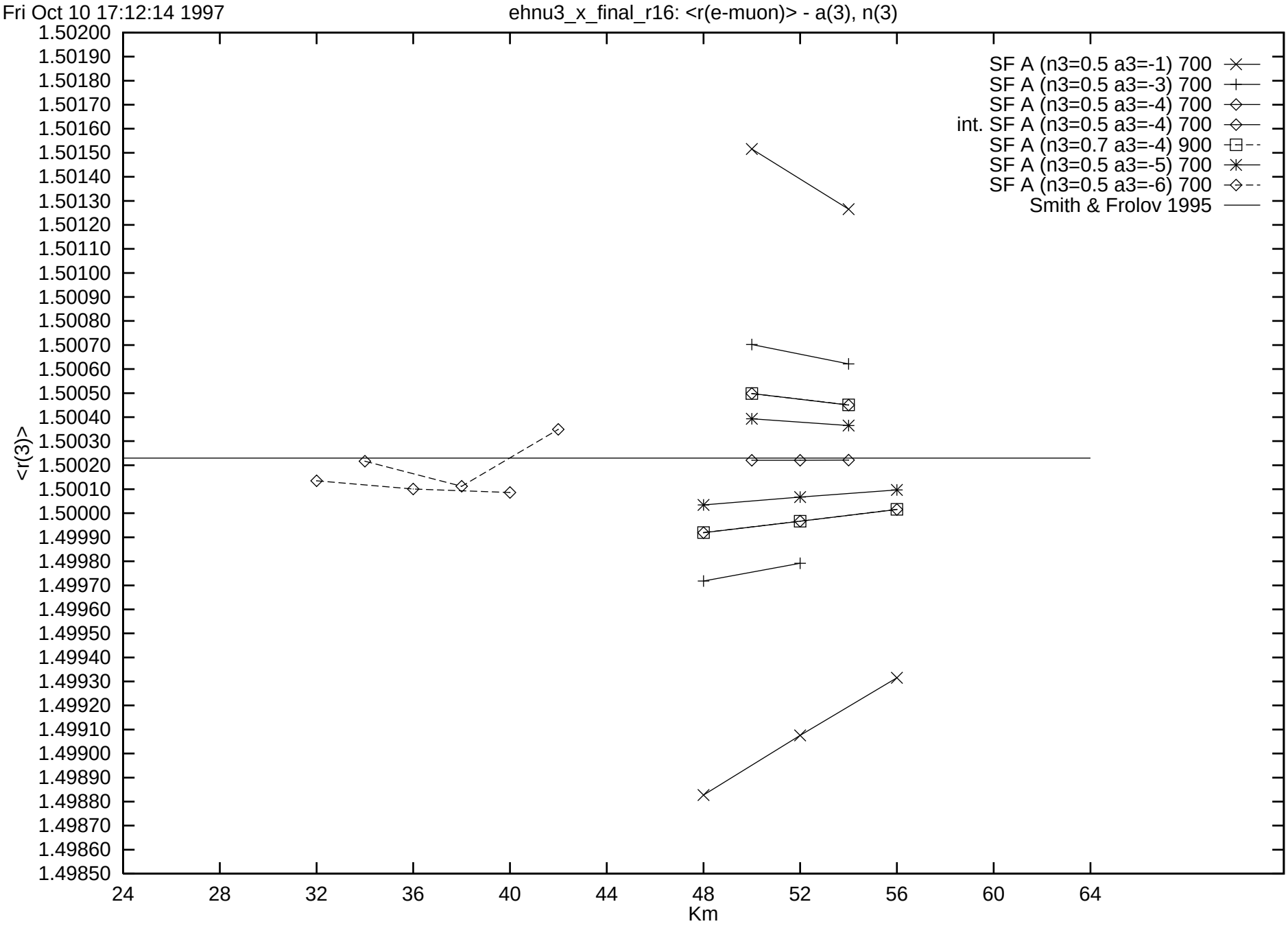
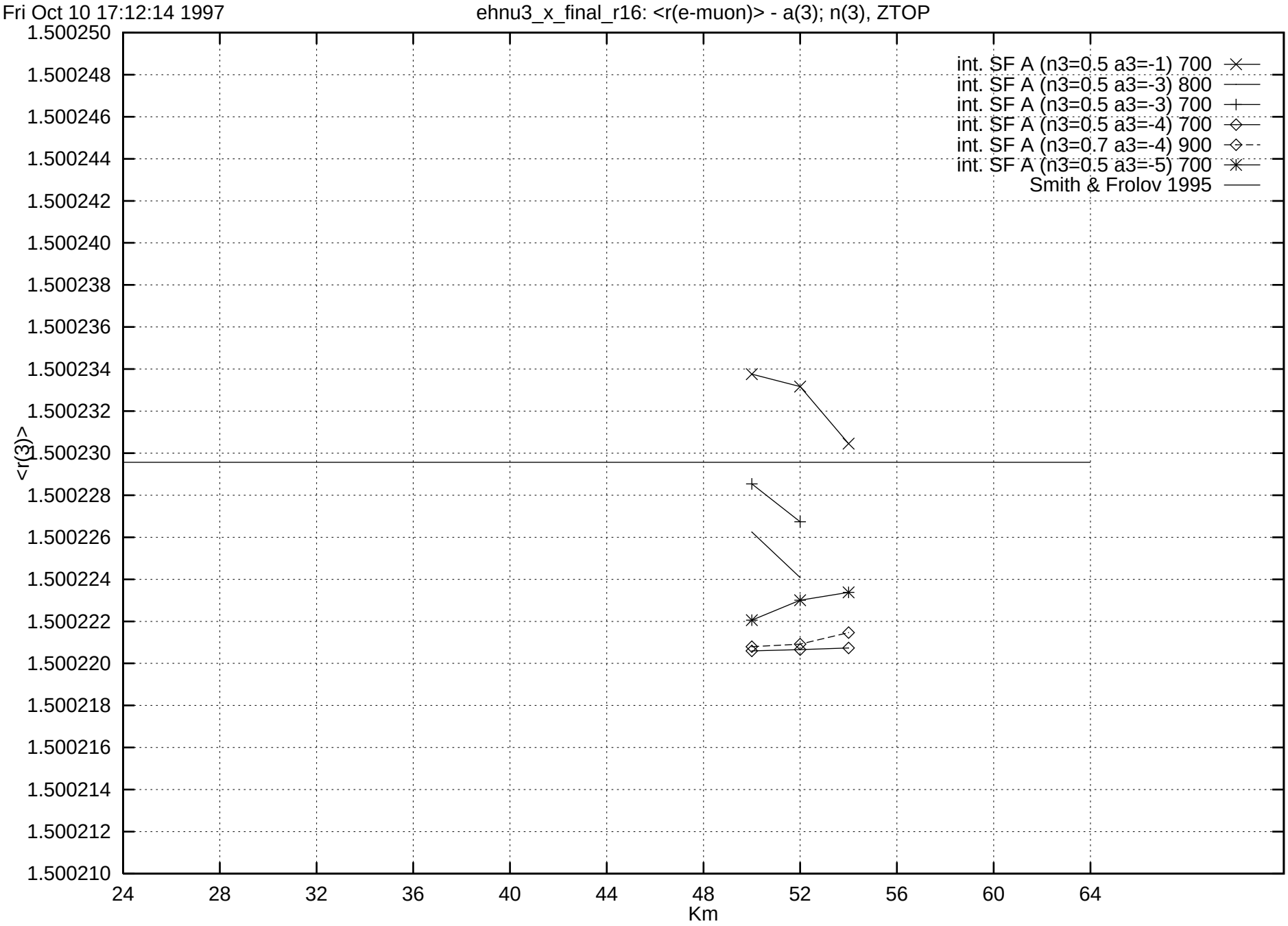
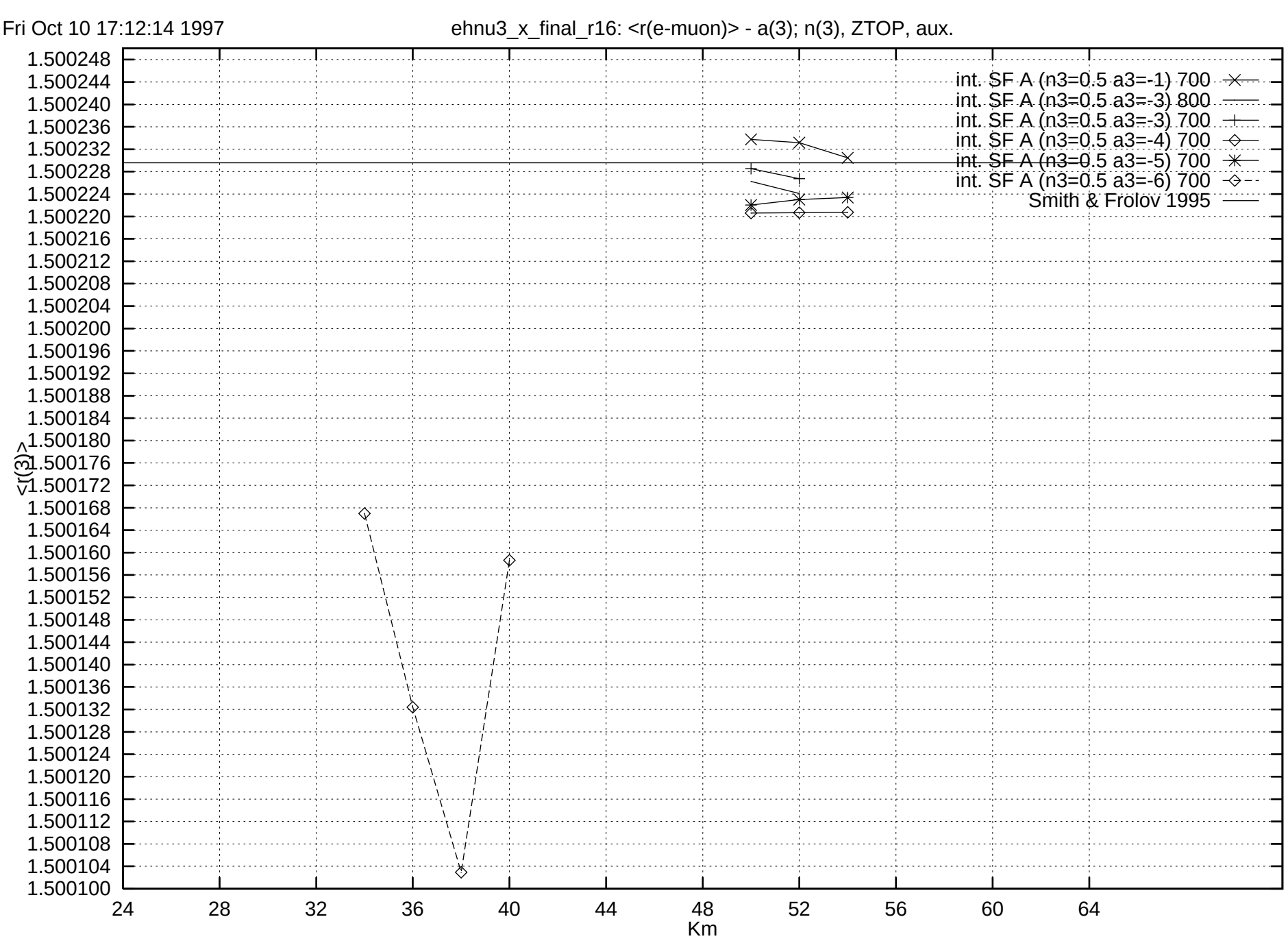
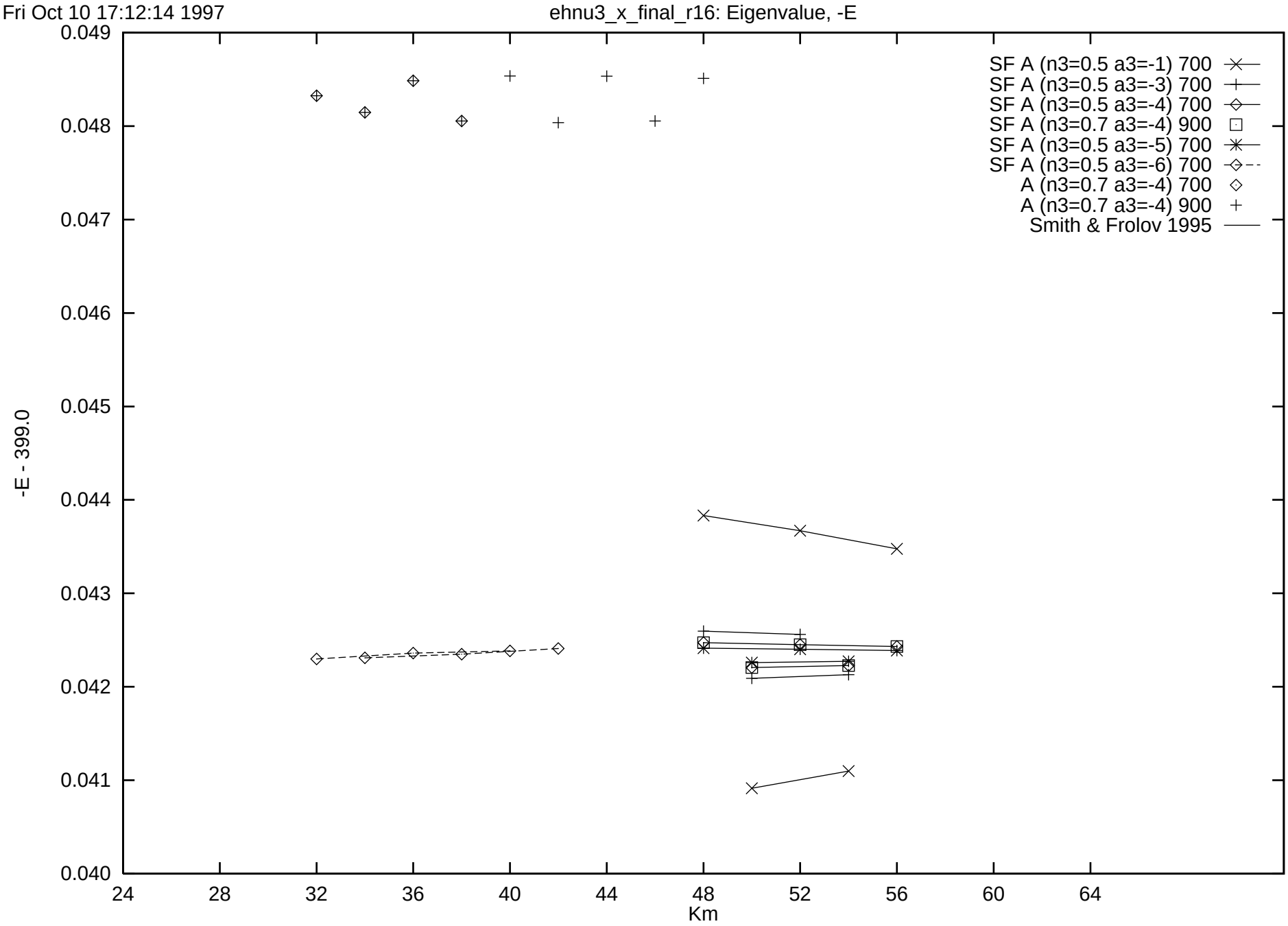
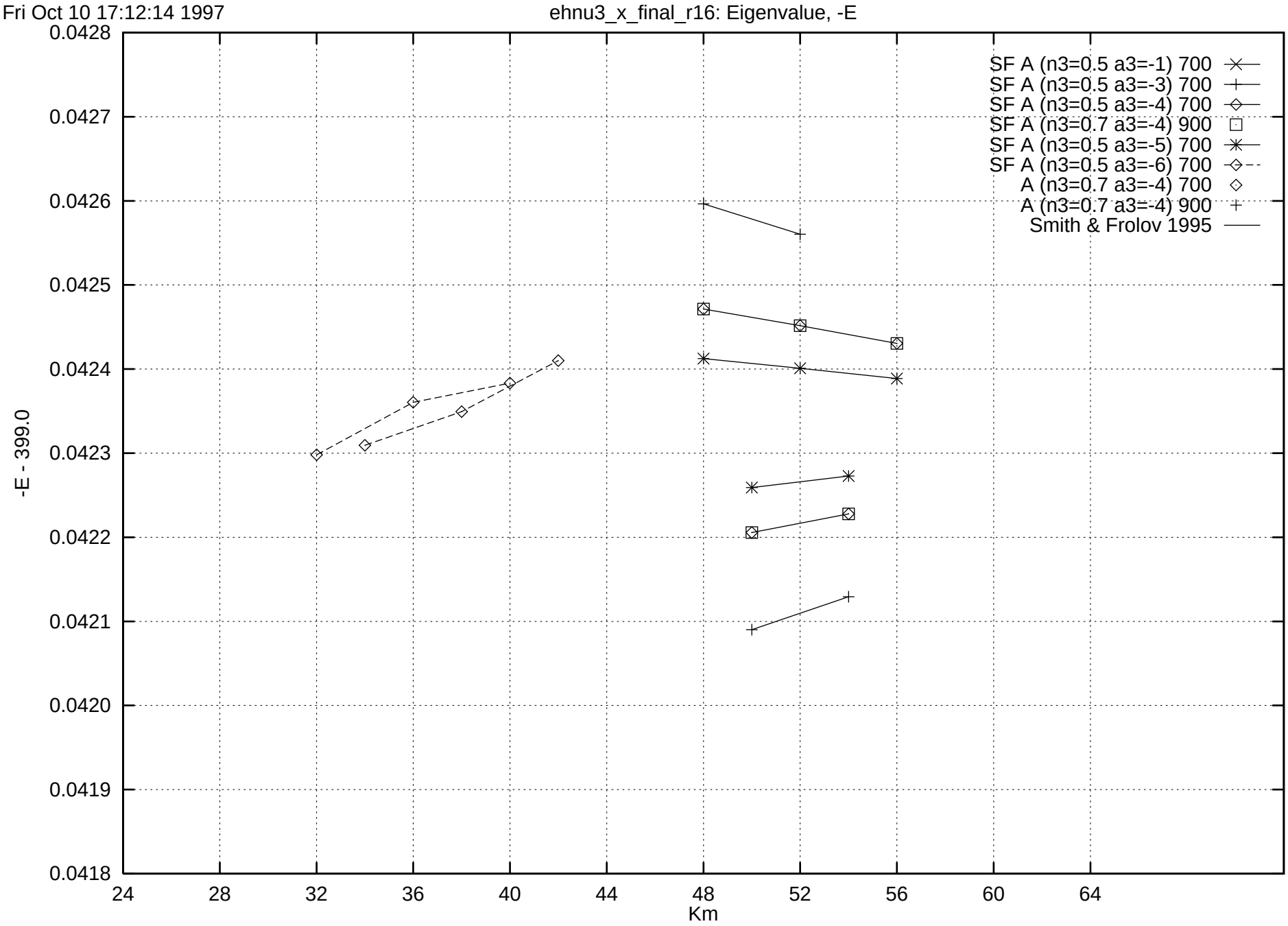
36
40
44
48
52
56
60
64

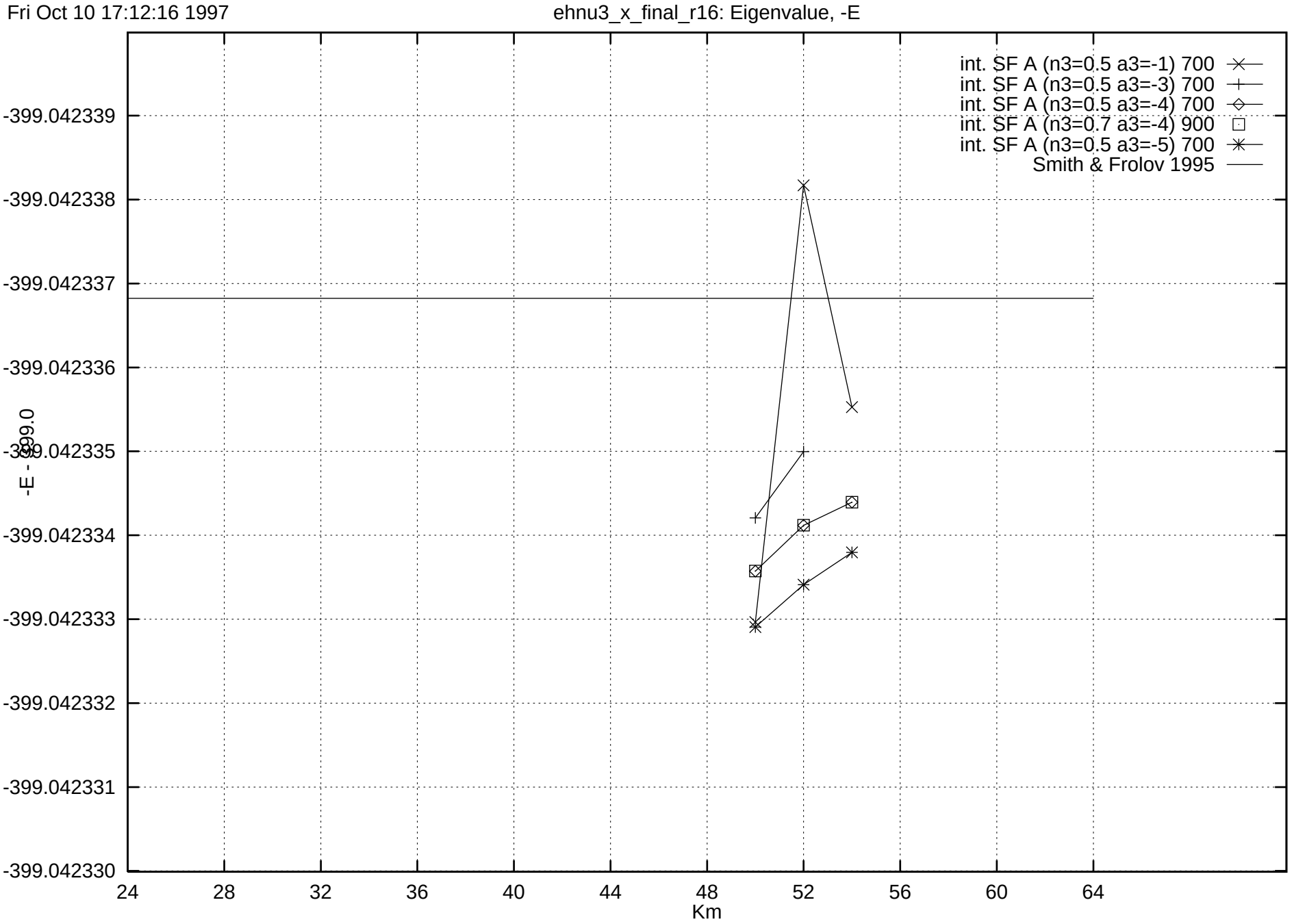

Fri Oct 10 17:12:14 1997
ehnu3_x_final_r16: <r(e-muon)> - a(3), n(3)
<r(3)>
Km
SF A (n3=0.5 a3=-1) 700
SF A (n3=0.5 a3=-3) 700
SF A (n3=0.5 a3=-4) 700
int. SF A (n3=0.5 a3=-4) 700
SF A (n3=0.7 a3=-4) 900
SF A (n3=0.5 a3=-5) 700
SF A (n3=0.5 a3=-6) 700
Smith & Frolov 1995

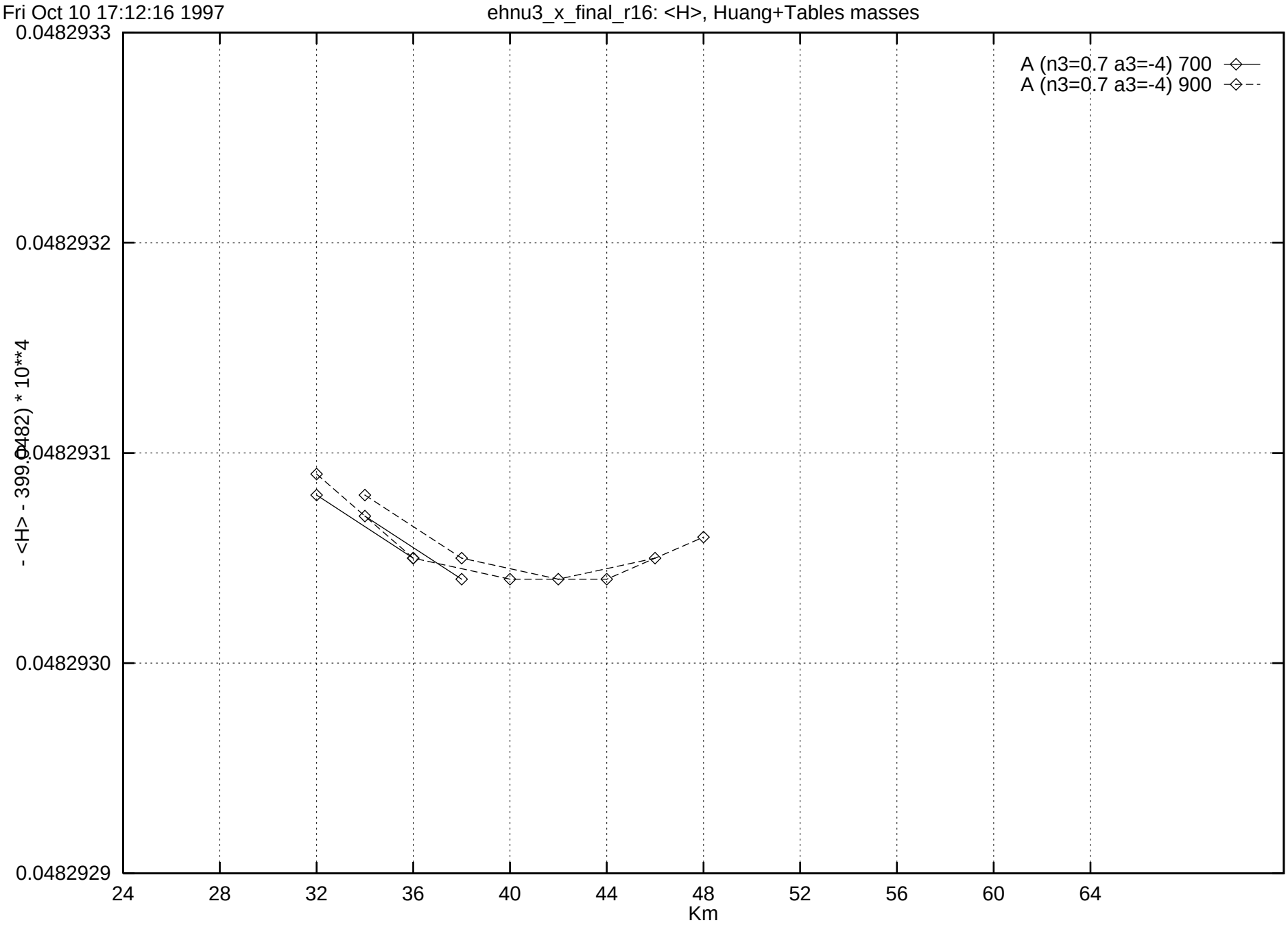

Fri Oct 10 17:12:14 1997
ehnu3_x_final_r16: <r(e-muon)> - a(3); n(3), ZTOP
int. SF A (n3=0.5 a3=-1) 700
int. SF A (n3=0.5 a3=-3) 800
int. SF A (n3=0.5 a3=-3) 700
int. SF A (n3=0.5 a3=-4) 700
int. SF A (n3=0.7 a3=-4) 900
int. SF A (n3=0.5 a3=-5) 700
Smith & Frolov 1995
<r(3)>
1.500250
1.500248
1.500246
1.500244
1.500242
1.500240
1.500238
1.500236
1.500234
1.500232
1.500230
1.500228
1.500226
1.500224
1.500222
1.500220
1.500218
1.500216
1.500214
1.500212
1.500210
24
28
32
36
40
44
48
52
56
60
64
Km

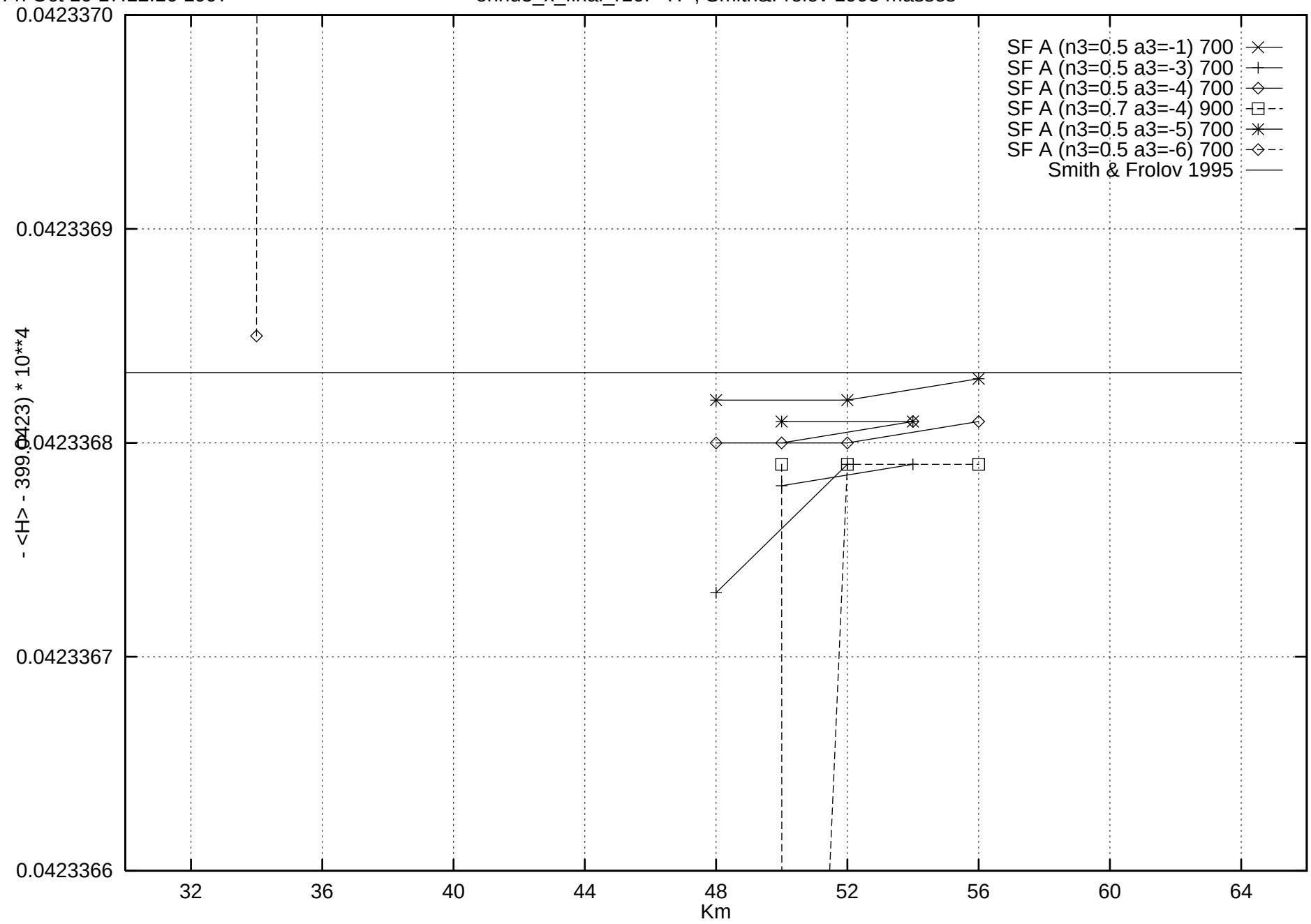

Fri Oct 10 17:12:14 1997
ehnu3_x_final_r16: <r(e-muon)> - a(3); n(3), ZTOP, aux.
int. SF A (n3=0.5 a3=-1) 700
int. SF A (n3=0.5 a3=-3) 800
int. SF A (n3=0.5 a3=-3) 700
int. SF A (n3=0.5 a3=-4) 700
int. SF A (n3=0.5 a3=-5) 700
int. SF A (n3=0.5 a3=-6) 700
Smith & Frolov 1995
<r(3)>
1.500248
1.500244
1.500240
1.500236
1.500232
1.500228
1.500224
1.500220
1.500216
1.500212
1.500208
1.500204
1.500200
1.500196
1.500192
1.500188
1.500184
1.500180
1.500176
1.500172
1.500168
1.500164
1.500160
1.500156
1.500152
1.500148
1.500144
1.500140
1.500136
1.500132
1.500128
1.500124
1.500120
1.500116
1.500112
1.500108
1.500104
1.500100
24
28
32
36
40
44
48
52
56
60
64
Km

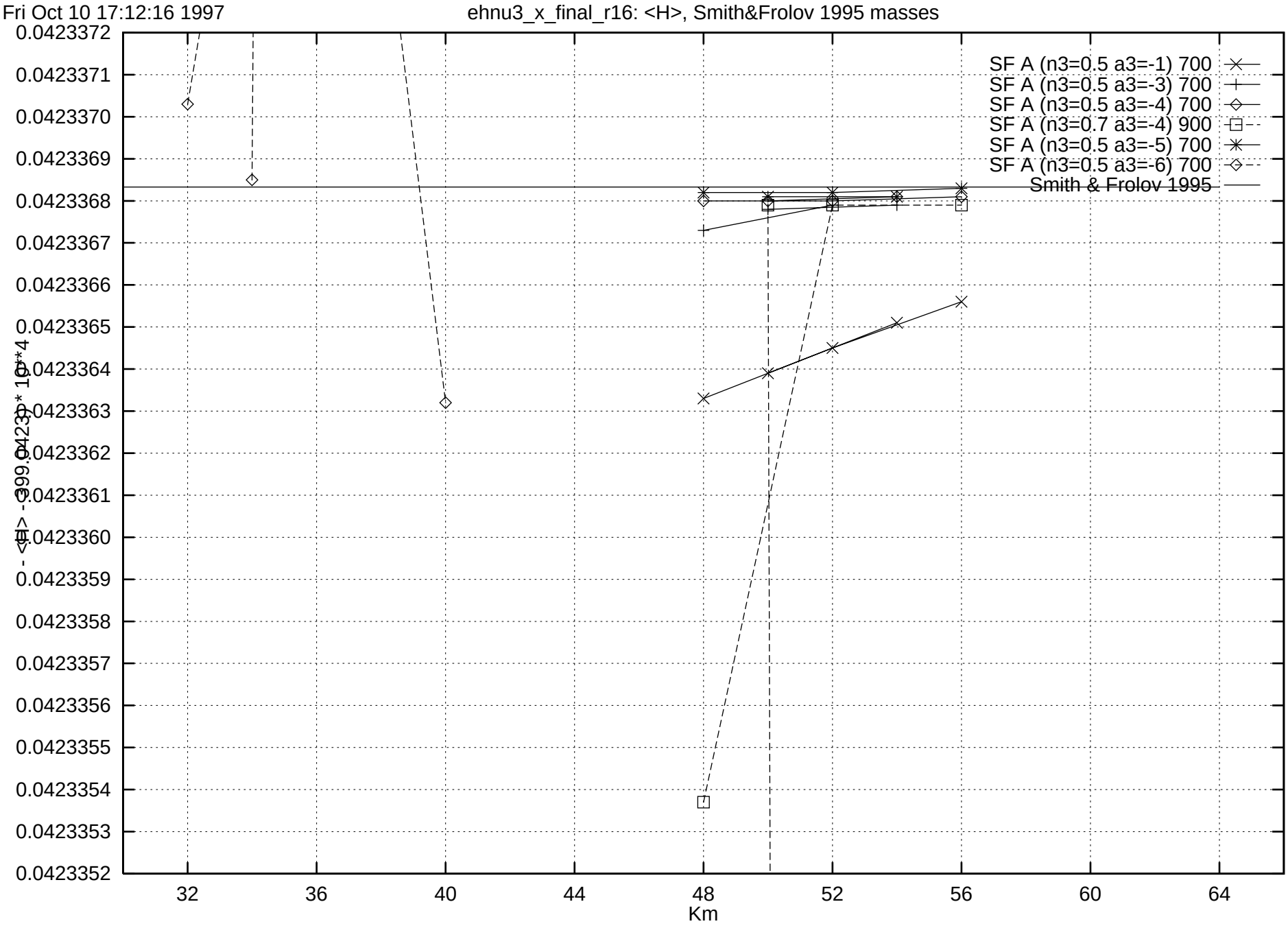

Fri Oct 10 17:12:14 1997
ehnu3_x_final_r16: Eigenvalue, -E
SF A (n3=0.5 a3=-1) 700
SF A (n3=0.5 a3=-3) 700
SF A (n3=0.5 a3=-4) 700
SF A (n3=0.7 a3=-4) 900
SF A (n3=0.5 a3=-5) 700
SF A (n3=0.5 a3=-6) 700
A (n3=0.7 a3=-4) 700
A (n3=0.7 a3=-4) 900
Smith & Frolov 1995
-E - 399.0
0.049
0.048
0.047
0.046
0.045
0.044
0.043
0.042
0.041
0.040
24
28
32
36
40
44
48
52
56
60
64
Km

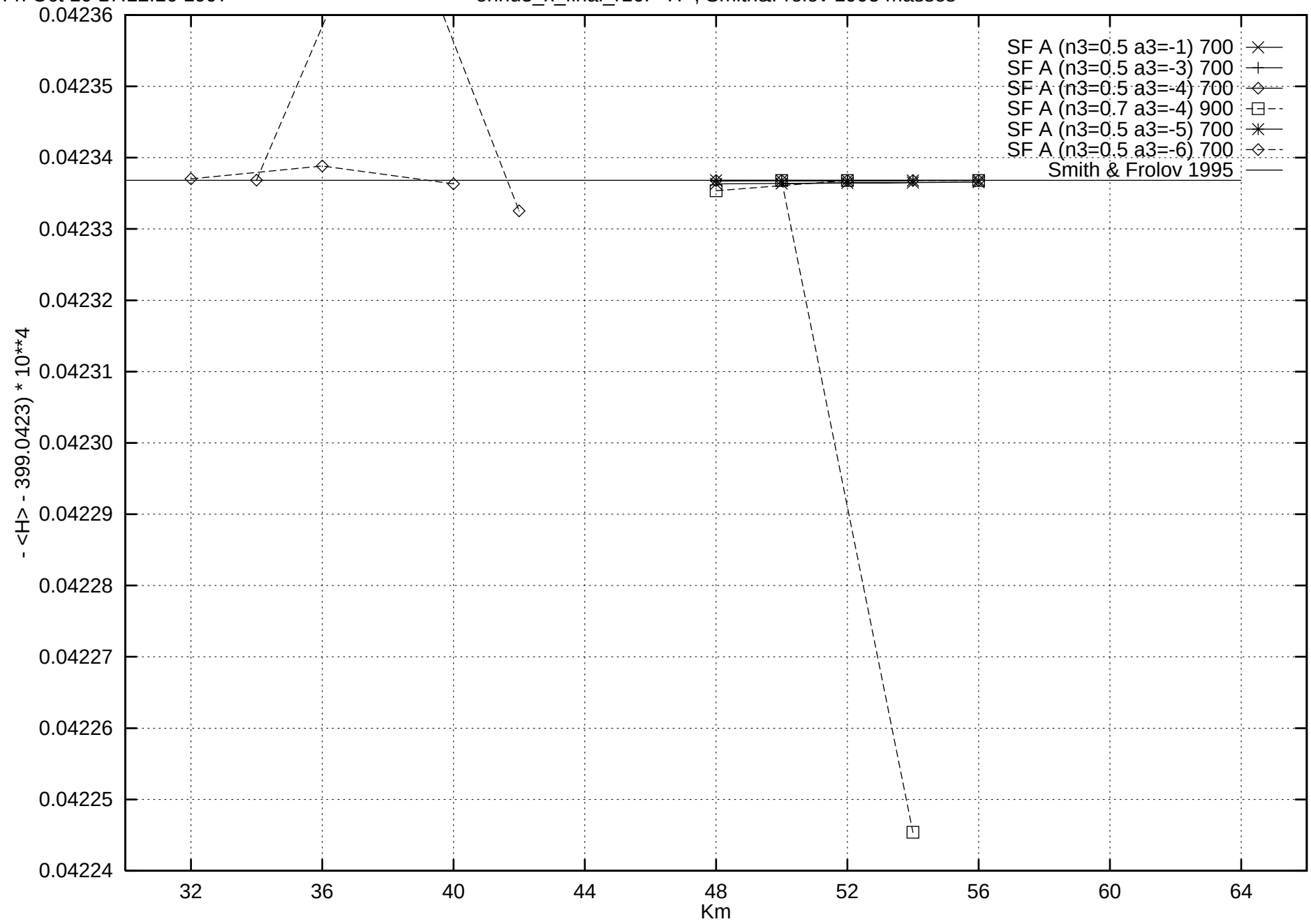

Fri Oct 10 17:12:14 1997
ehnu3_x_final_r16: Eigenvalue, -E
-E - 399.0
Km
0.0428
0.0427
0.0426
0.0425
0.0424
0.0423
0.0422
0.0421
0.0420
0.0419
0.0418
24
28
32
36
40
44
48
52
56
60
64
SF A (n3=0.5 a3=-1) 700
SF A (n3=0.5 a3=-3) 700
SF A (n3=0.5 a3=-4) 700
SF A (n3=0.7 a3=-4) 900
SF A (n3=0.5 a3=-5) 700
SF A (n3=0.5 a3=-6) 700
A (n3=0.7 a3=-4) 700
A (n3=0.7 a3=-4) 900
Smith & Frolov 1995

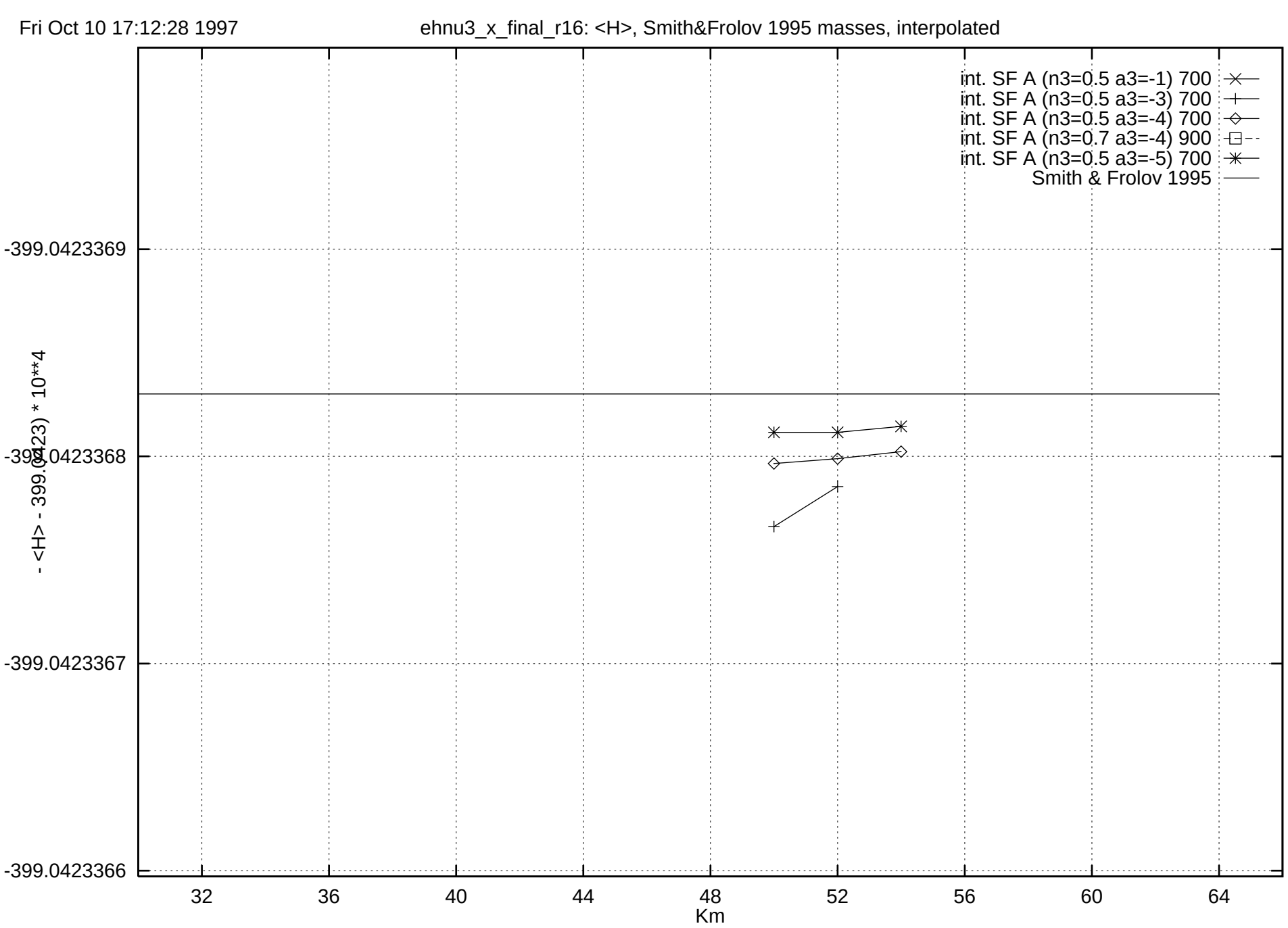

Fri Oct 10 17:12:16 1997
ehnu3_x_final_r16: Eigenvalue, -E
int. SF A (n3=0.5 a3=-1) 700
int. SF A (n3=0.5 a3=-3) 700
int. SF A (n3=0.5 a3=-4) 700
int. SF A (n3=0.7 a3=-4) 900
int. SF A (n3=0.5 a3=-5) 700
Smith & Frolov 1995
-399.042339
-399.042338
-399.042337
-399.042336
-399.042335
-399.042334
-399.042333
-399.042332
-399.042331
-399.042330
-E - 399.0
24
28
32
36
40
44
48
52
56
60
64
Km

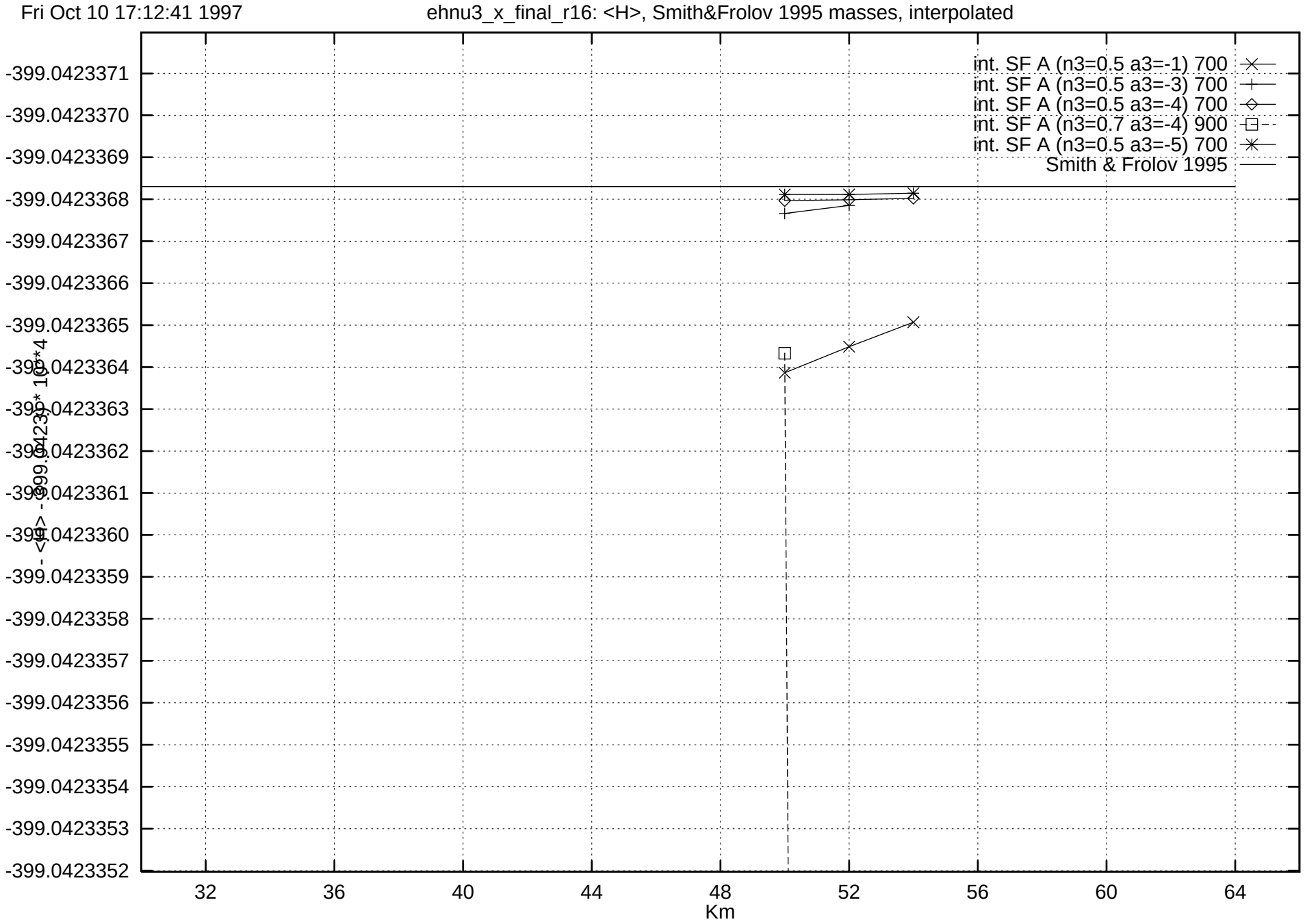

Fri Oct 10 17:12:16 1997
ehnu3_x_final_r16: <H>, Huang+Tables masses
A (n3=0.7 a3=-4) 700
A (n3=0.7 a3=-4) 900
- <H> - 399.0482) * 10**4
0.0482933
0.0482932
0.0482931
0.0482930
0.0482929
24
28
32
36
40
44
48
52
56
60
64
Km

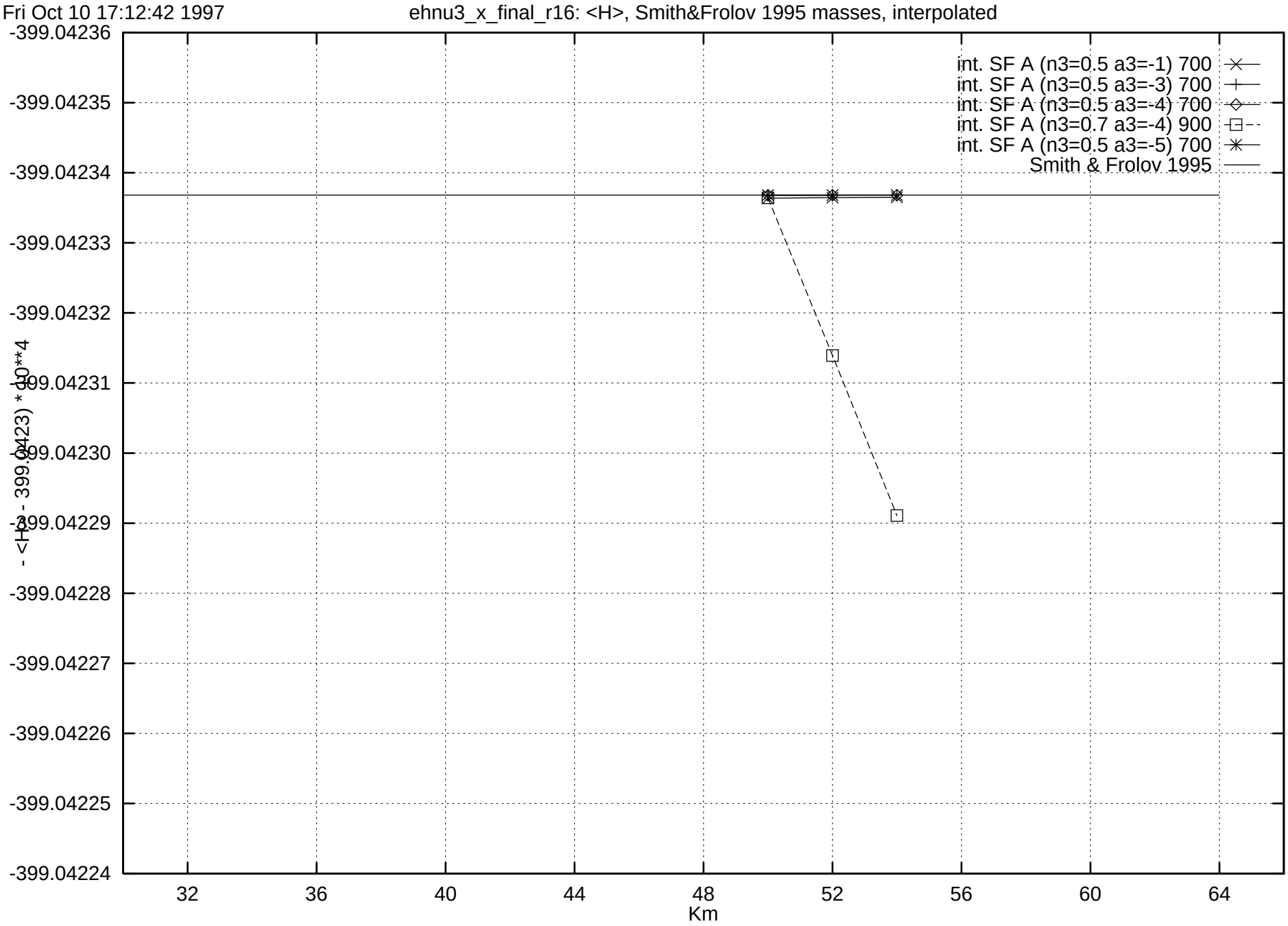

Fri Oct 10 17:12:16 1997
ehnu3_x_final_r16: <H>, Smith&Frolov 1995 masses
SF A (n3=0.5 a3=-1) 700
SF A (n3=0.5 a3=-3) 700
SF A (n3=0.5 a3=-4) 700
SF A (n3=0.7 a3=-4) 900
SF A (n3=0.5 a3=-5) 700
SF A (n3=0.5 a3=-6) 700
Smith & Frolov 1995
0.0423370
0.0423369
0.0423368
0.0423367
0.0423366
- <H> - 399.0423) * 10**4
32
36
40
44
48
52
56
60
64
Km

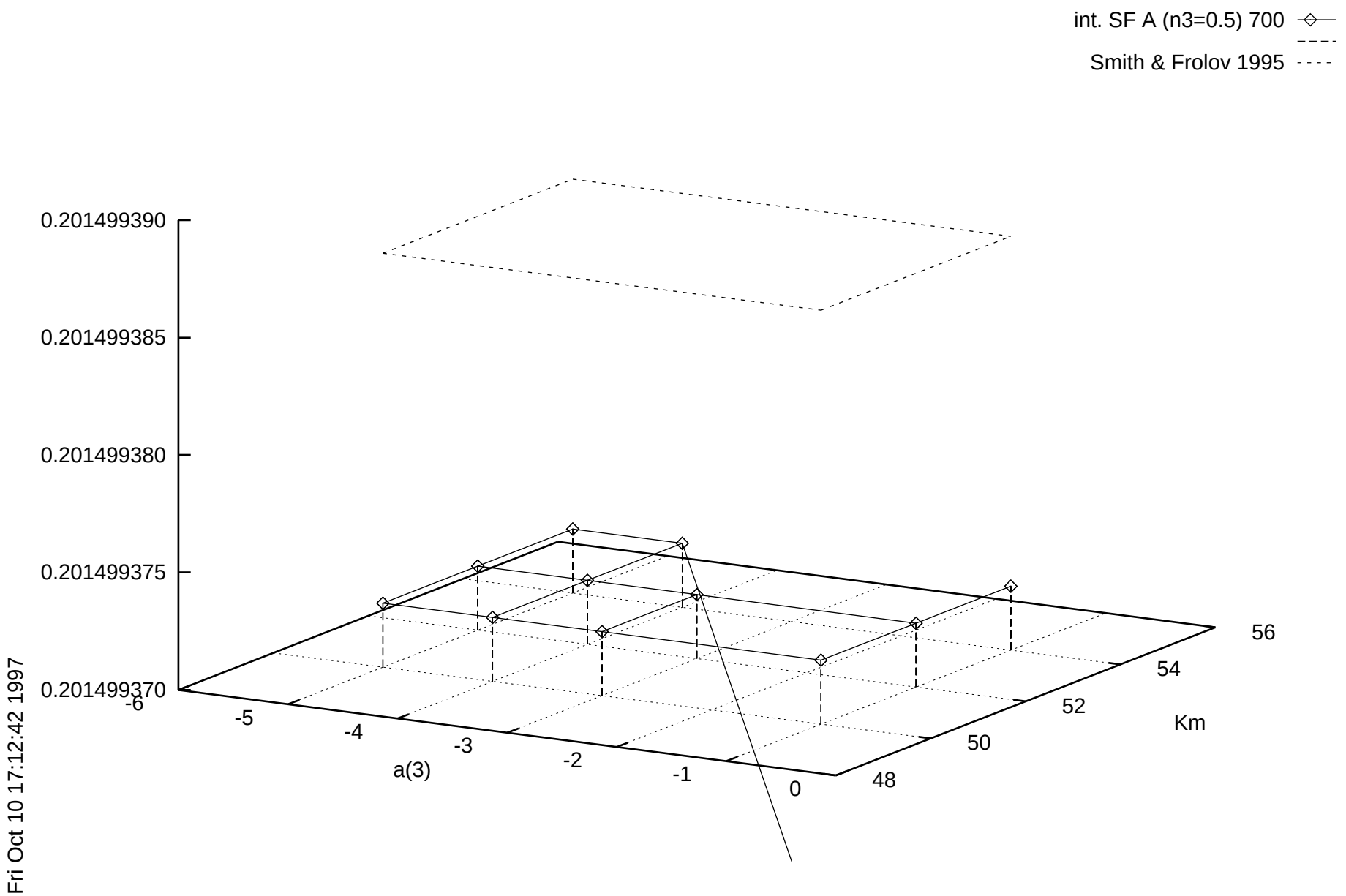

Fri Oct 10 17:12:16 1997
ehnu3_x_final_r16: <H>, Smith&Frolov 1995 masses
SF A (n3=0.5 a3=-1) 700
SF A (n3=0.5 a3=-3) 700
SF A (n3=0.5 a3=-4) 700
SF A (n3=0.7 a3=-4) 900
SF A (n3=0.5 a3=-5) 700
SF A (n3=0.5 a3=-6) 700
Smith & Frolov 1995
<H> - 399.04237 * 10**4
0.0423372
0.0423371
0.0423370
0.0423369
0.0423368
0.0423367
0.0423366
0.0423365
0.0423364
0.0423363
0.0423362
0.0423361
0.0423360
0.0423359
0.0423358
0.0423357
0.0423356
0.0423355
0.0423354
0.0423353
0.0423352
32
36
40
44
48
52
56
60
64
Km

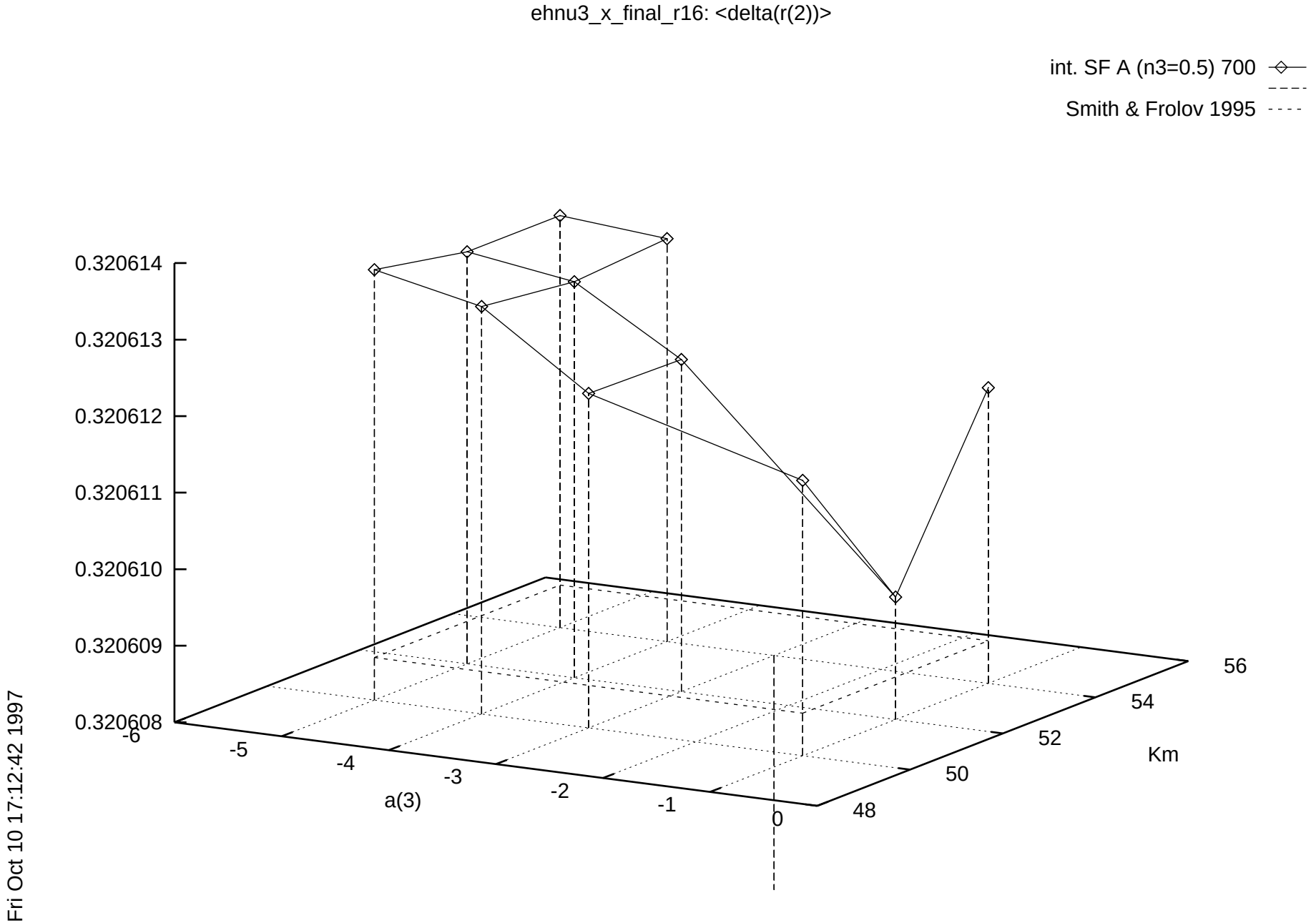

Fri Oct 10 17:12:16 1997
ehnu3_x_final_r16: <H>, Smith&Frolov 1995 masses
SF A (n3=0.5 a3=-1) 700
SF A (n3=0.5 a3=-3) 700
SF A (n3=0.5 a3=-4) 700
SF A (n3=0.7 a3=-4) 900
SF A (n3=0.5 a3=-5) 700
SF A (n3=0.5 a3=-6) 700
Smith & Frolov 1995
- <H> - 399.0423) * 10**4
0.04236
0.04235
0.04234
0.04233
0.04232
0.04231
0.04230
0.04229
0.04228
0.04227
0.04226
0.04225
0.04224
32
36
40
44
48
52
56
60
64
Km

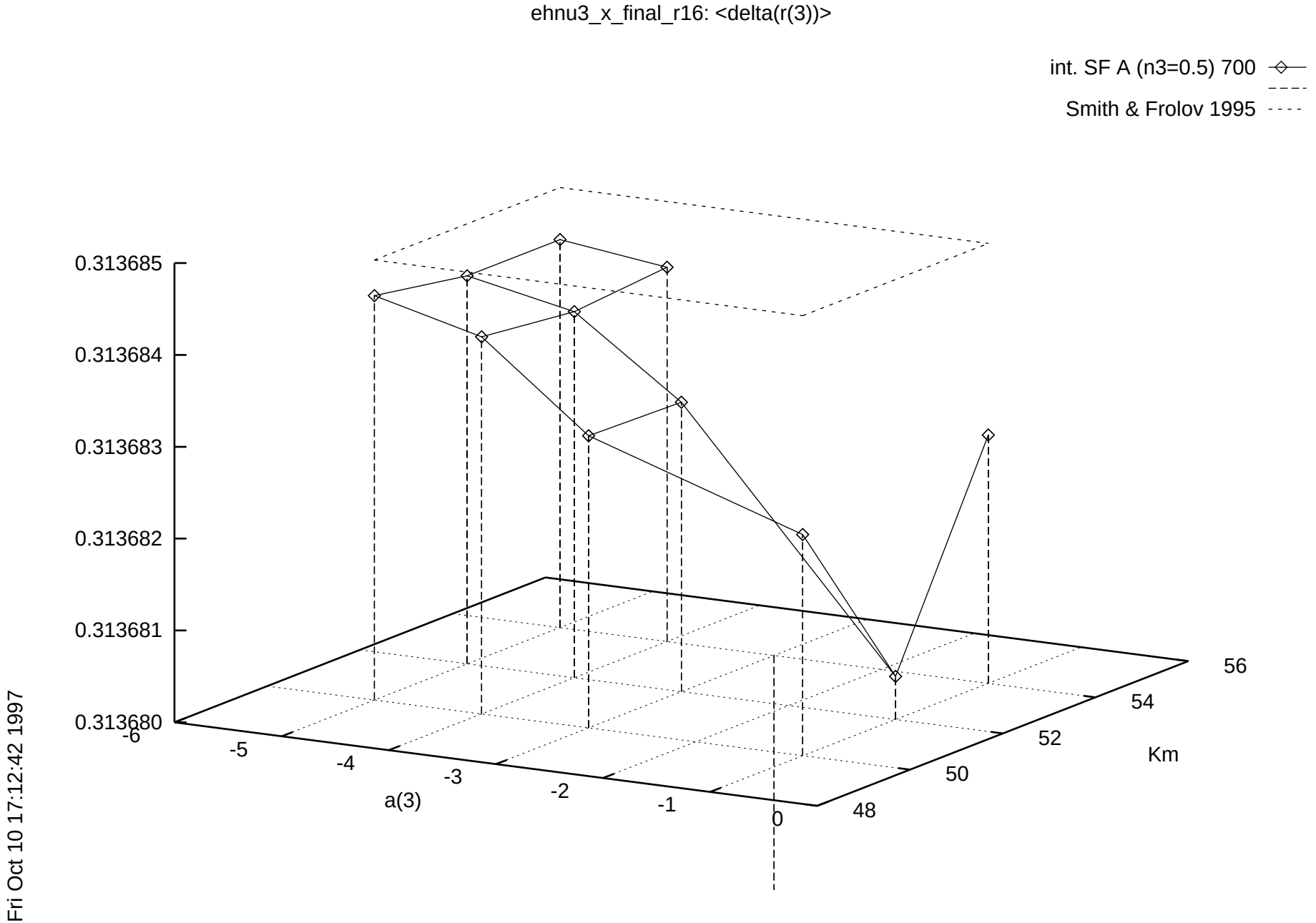

Fri Oct 10 17:12:28 1997
ehnu3_x_final_r16: <H>, Smith&Frolov 1995 masses, interpolated
int. SF A (n3=0.5 a3=-1) 700
int. SF A (n3=0.5 a3=-3) 700
int. SF A (n3=0.5 a3=-4) 700
int. SF A (n3=0.7 a3=-4) 900
int. SF A (n3=0.5 a3=-5) 700
Smith & Frolov 1995
-399.0423369
-399.0423368
-399.0423367
-399.0423366
- <H> - 399.0423) * 10**4
32
36
40
44
48
52
56
60
64
Km

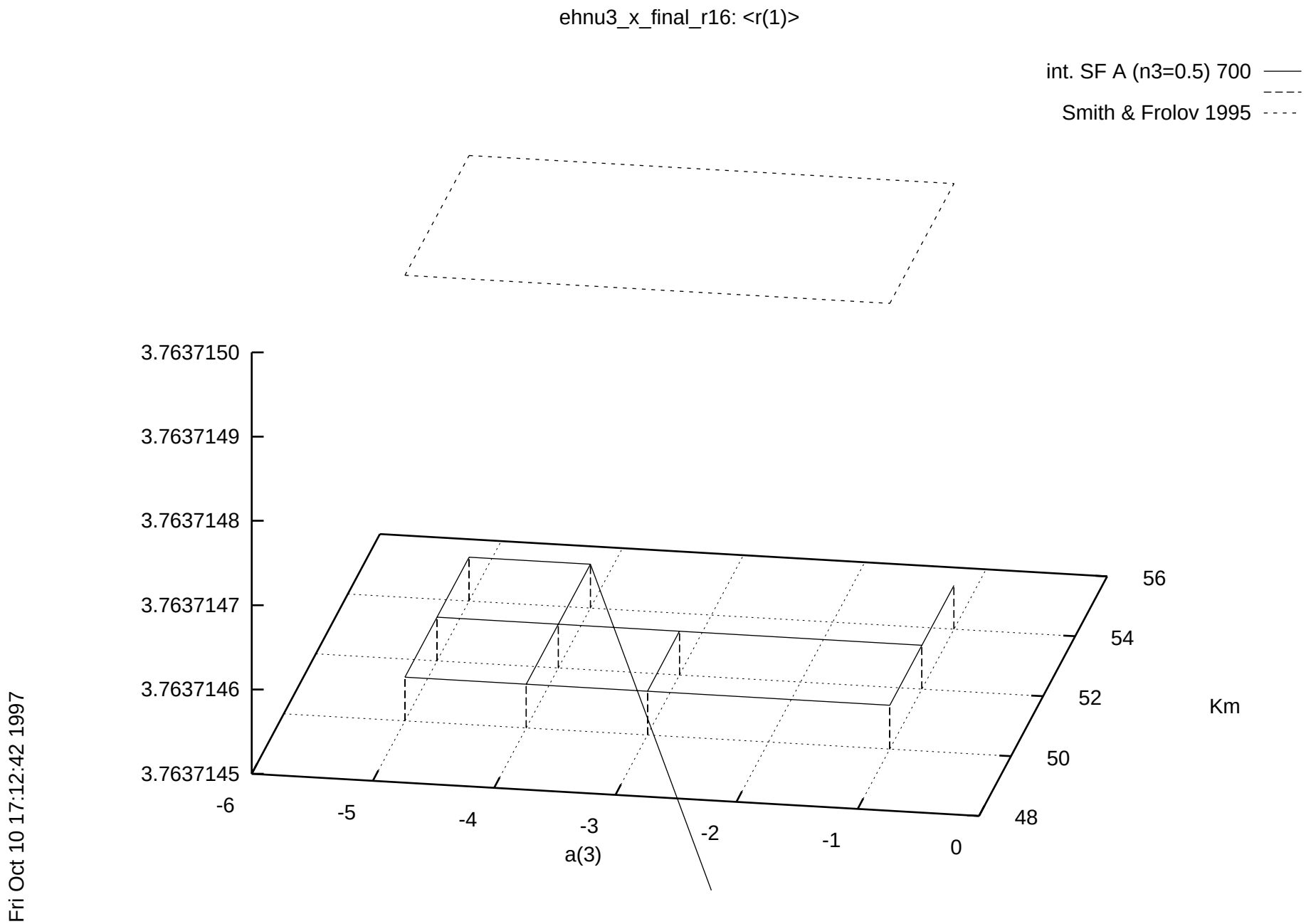

Fri Oct 10 17:12:41 1997
ehnu3_x_final_r16: <H>, Smith&Frolov 1995 masses, interpolated
int. SF A (n3=0.5 a3=-1) 700
int. SF A (n3=0.5 a3=-3) 700
int. SF A (n3=0.5 a3=-4) 700
int. SF A (n3=0.7 a3=-4) 900
int. SF A (n3=0.5 a3=-5) 700
Smith & Frolov 1995
-399.0423371
-399.0423370
-399.0423369
-399.0423368
-399.0423367
-399.0423366
-399.0423365
-399.0423364
-399.0423363
-399.0423362
-399.0423361
-399.0423360
-399.0423359
-399.0423358
-399.0423357
-399.0423356
-399.0423355
-399.0423354
-399.0423353
-399.0423352
<H> - -399.0423* 10**4
32
36
40
44
48
52
56
60
64
Km


Fri Oct 10 17:12:42 1997
ehnu3_x_final_r16: <H>, Smith&Frolov 1995 masses, interpolated
int. SF A (n3=0.5 a3=-1) 700
int. SF A (n3=0.5 a3=-3) 700
int. SF A (n3=0.5 a3=-4) 700
int. SF A (n3=0.7 a3=-4) 900
int. SF A (n3=0.5 a3=-5) 700
Smith & Frolov 1995
-399.04236
-399.04235
-399.04234
-399.04233
-399.04232
-399.04231
-399.04230
-399.04229
-399.04228
-399.04227
-399.04226
-399.04225
-399.04224
- <H> - 399.04223) * 10**4
32
36
40
44
48
52
56
60
64
Km

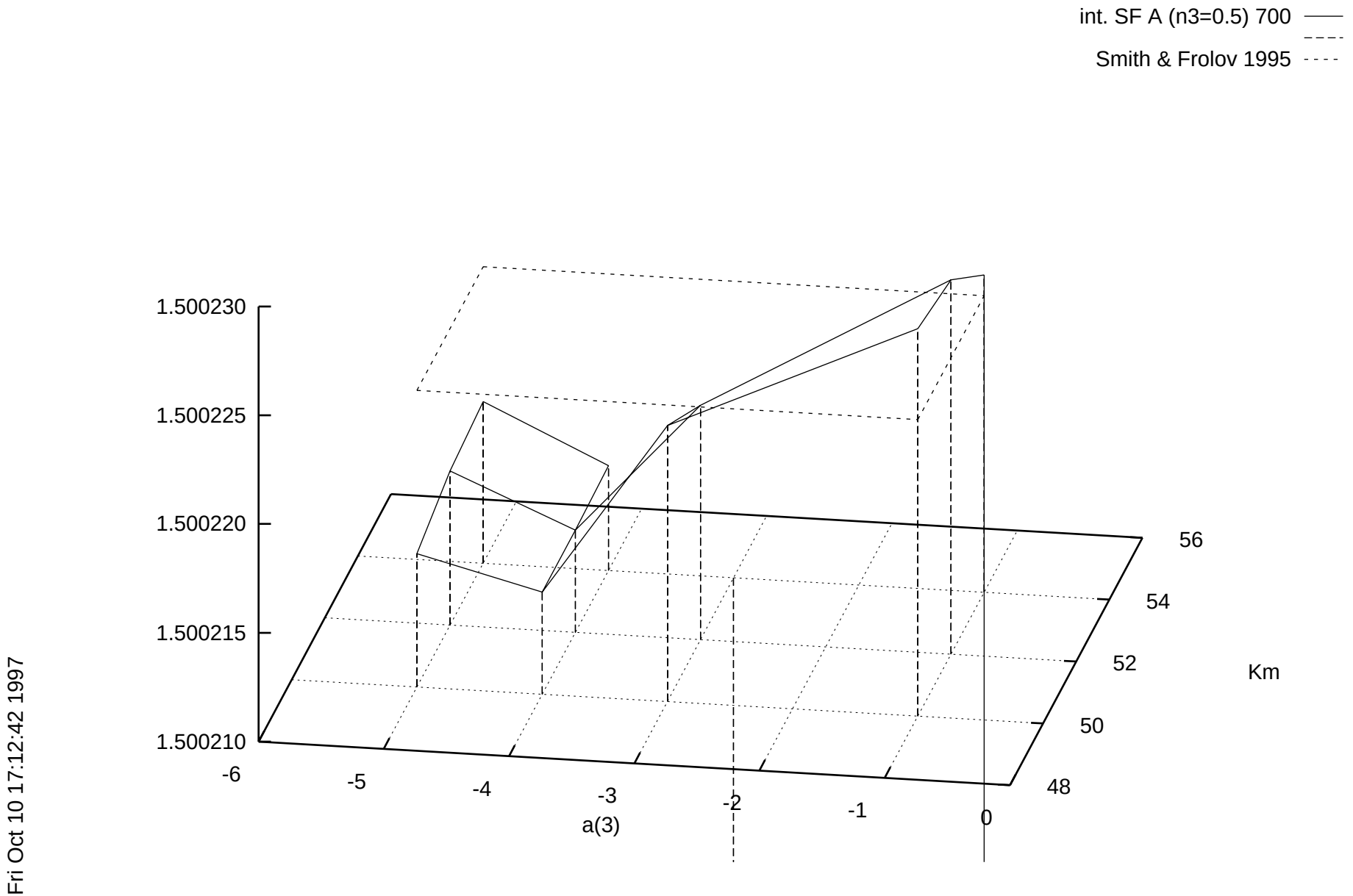

ehnu3_x_final_r16: <delta(r(1))>
int. SF A (n3=0.5) 700
Smith & Frolov 1995
0.201499390
0.201499385
0.201499380
0.201499375
0.201499370
Fri Oct 10 17:12:42 1997
-6
-5
-4
-3
-2
-1
0
a(3)
48
50
52
54
56
Km


ehnu3_x_final_r16: <delta(r(2))>
int. SF A (n3=0.5) 700
Smith & Frolov 1995
0.320614
0.320613
0.320612
0.320611
0.320610
0.320609
0.320608
-6
-5
-4
-3
-2
-1
0
a(3)
48
50
52
54
56
Km
Fri Oct 10 17:12:42 1997


ehnu3_x_final_r16: <delta(r(3))>
int. SF A (n3=0.5) 700
Smith & Frolov 1995
0.313685
0.313684
0.313683
0.313682
0.313681
0.313680
-6
-5
-4
-3
-2
-1
0
a(3)
48
50
52
54
56
Km
Fri Oct 10 17:12:42 1997

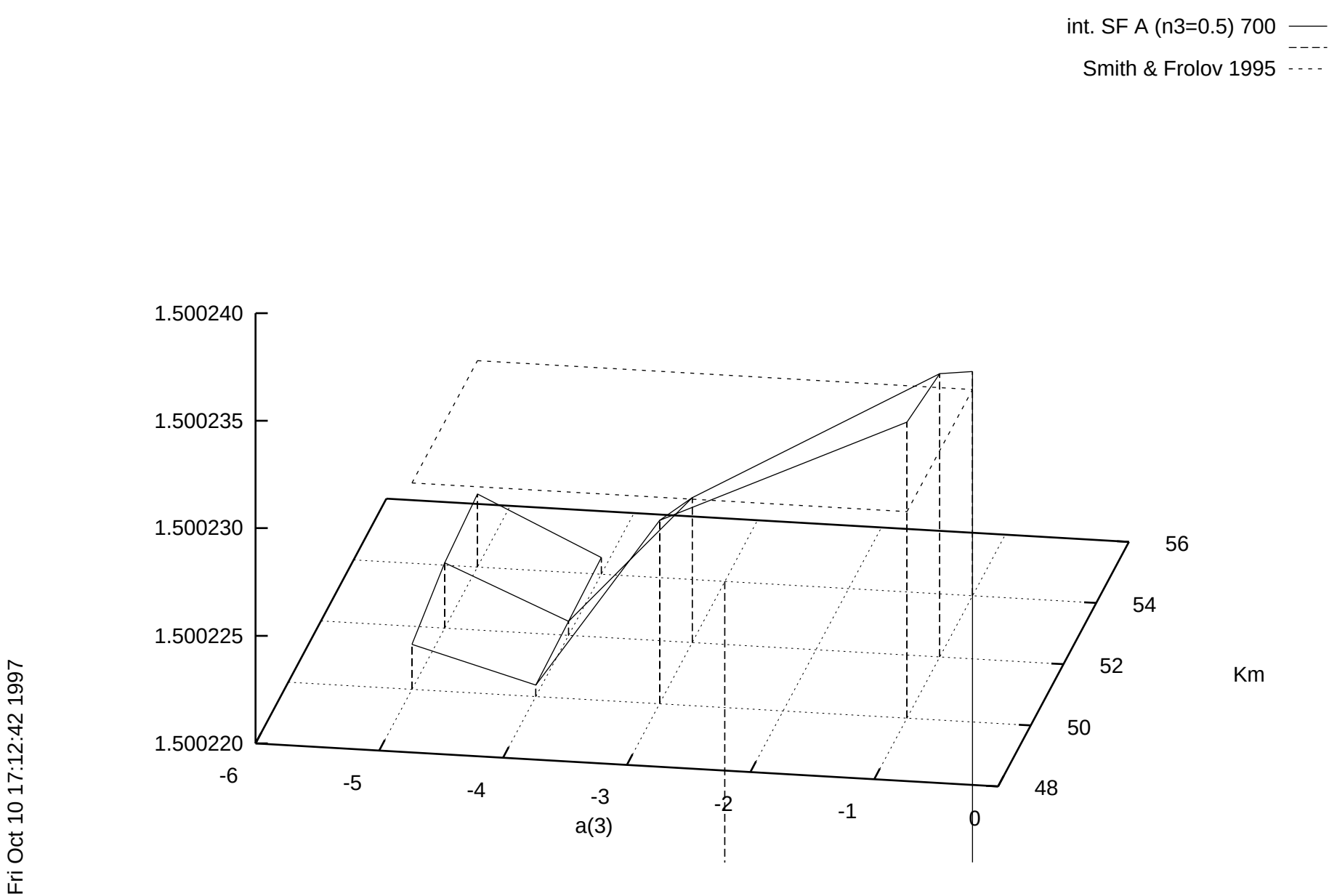

ehnu3_x_final_r16: <r(1)>
int. SF A (n3=0.5) 700
Smith & Frolov 1995
3.7637150
3.7637149
3.7637148
3.7637147
3.7637146
3.7637145
-6
-5
-4
-3
-2
-1
0
a(3)
56
54
52
50
48
Km
Fri Oct 10 17:12:42 1997

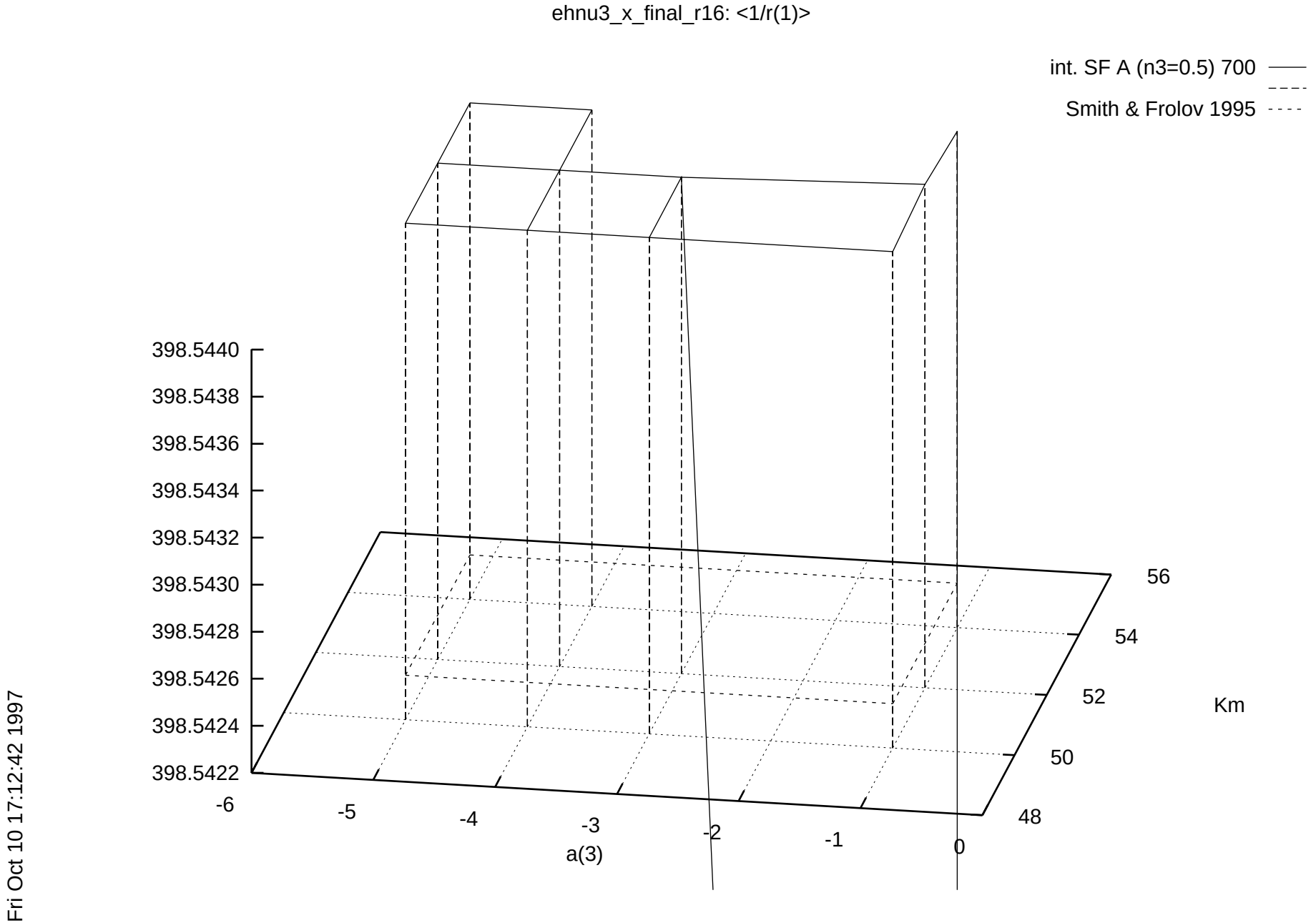
ehnu3_x_final_r16: <r(2)>



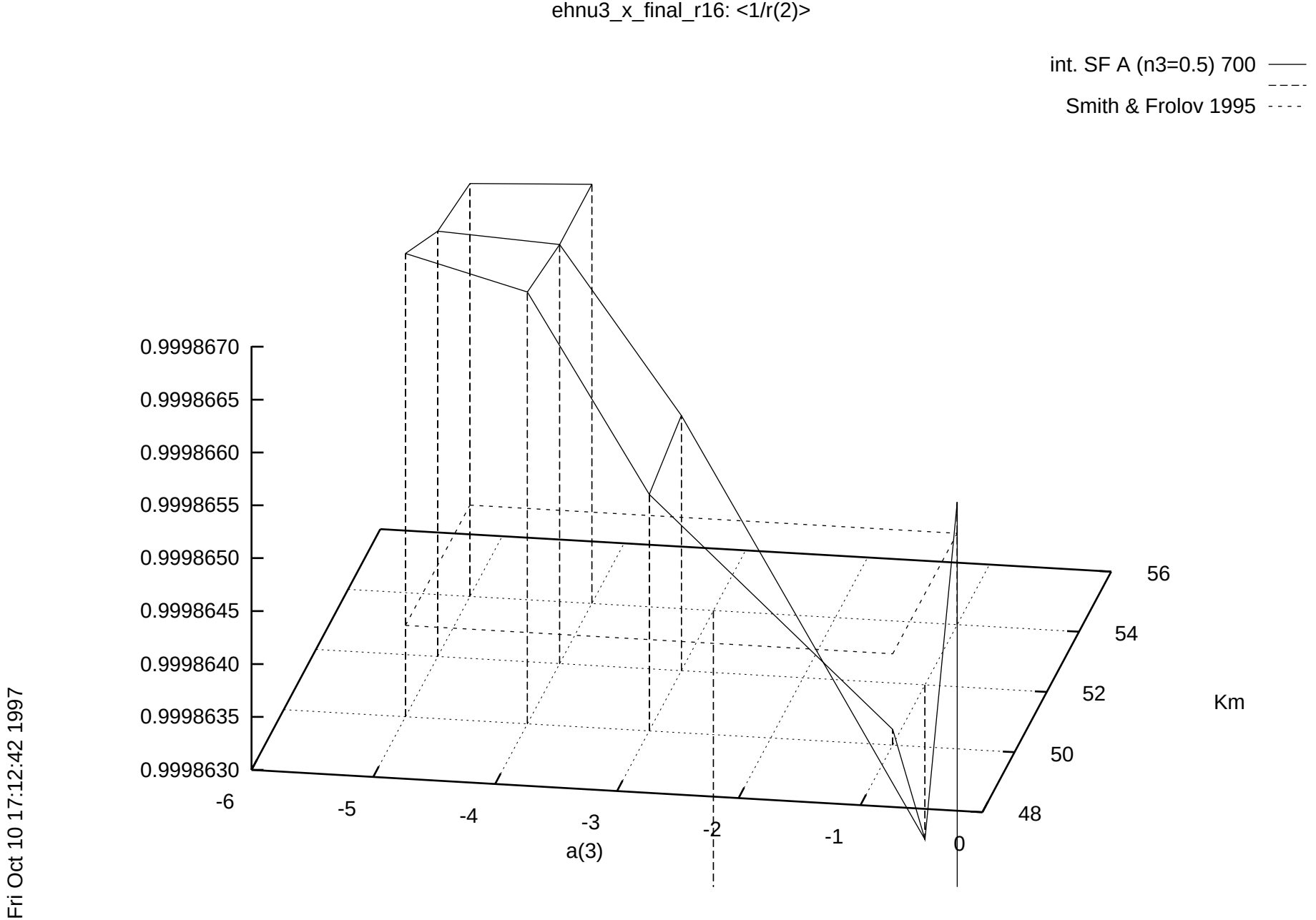
Fri Oct 10 17:12:42 1997

ehnu3_x_final_r16: <r(3)>

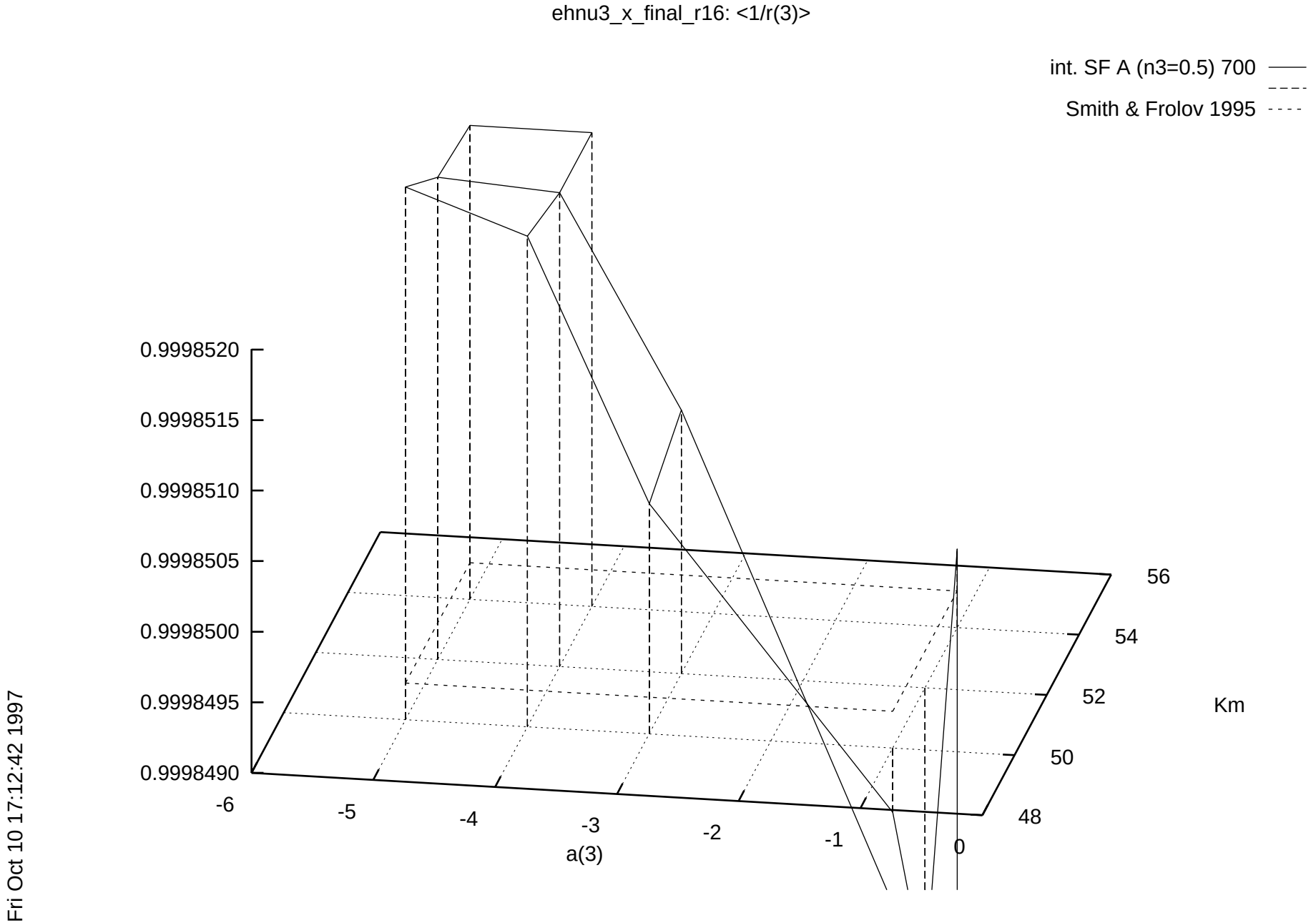



ehnu3_x_final_r16: <1/r(1)>
int. SF A (n3=0.5) 700
Smith & Frolov 1995
398.5440
398.5438
398.5436
398.5434
398.5432
398.5430
398.5428
398.5426
398.5424
398.5422
-6
-5
-4
-3
-2
-1
0
a(3)
56
54
52
50
48
Km
Fri Oct 10 17:12:42 1997

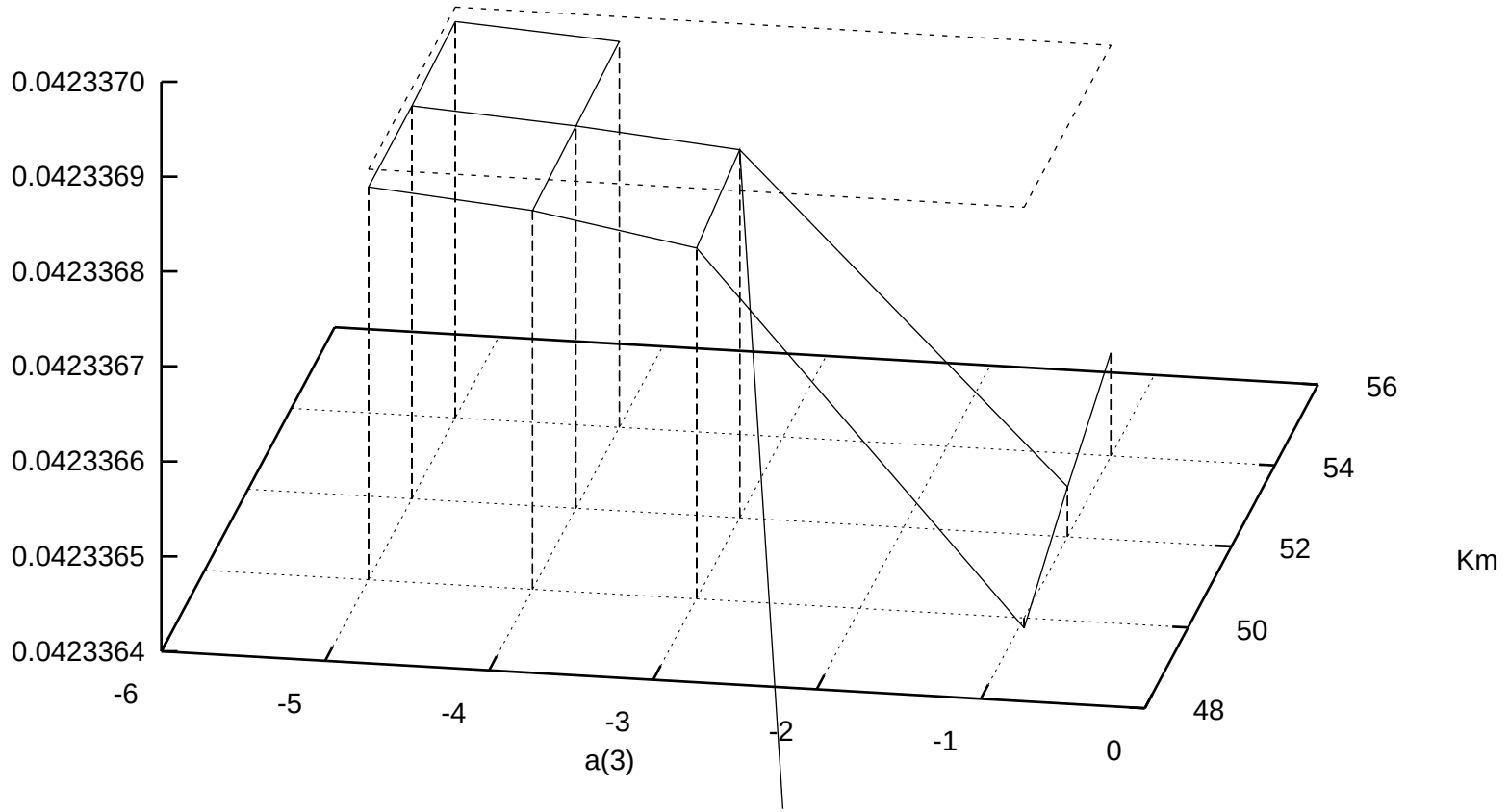
ehnu3_x_final_r16: <1/r(2)>



Fri Oct 10 17:12:42 1997


ehnu3_x_final_r16: <1/r(3)>
int. SF A (n3=0.5) 700
Smith & Frolov 1995
0.9998520
0.9998515
0.9998510
0.9998505
0.9998500
0.9998495
0.9998490
-6
-5
-4
-3
-2
-1
0
a(3)
56
54
52
50
48
Km
Fri Oct 10 17:12:42 1997

ehnu3_x_final_r16: - <H> + 399.0



Fri Oct 10 17:12:42 1997