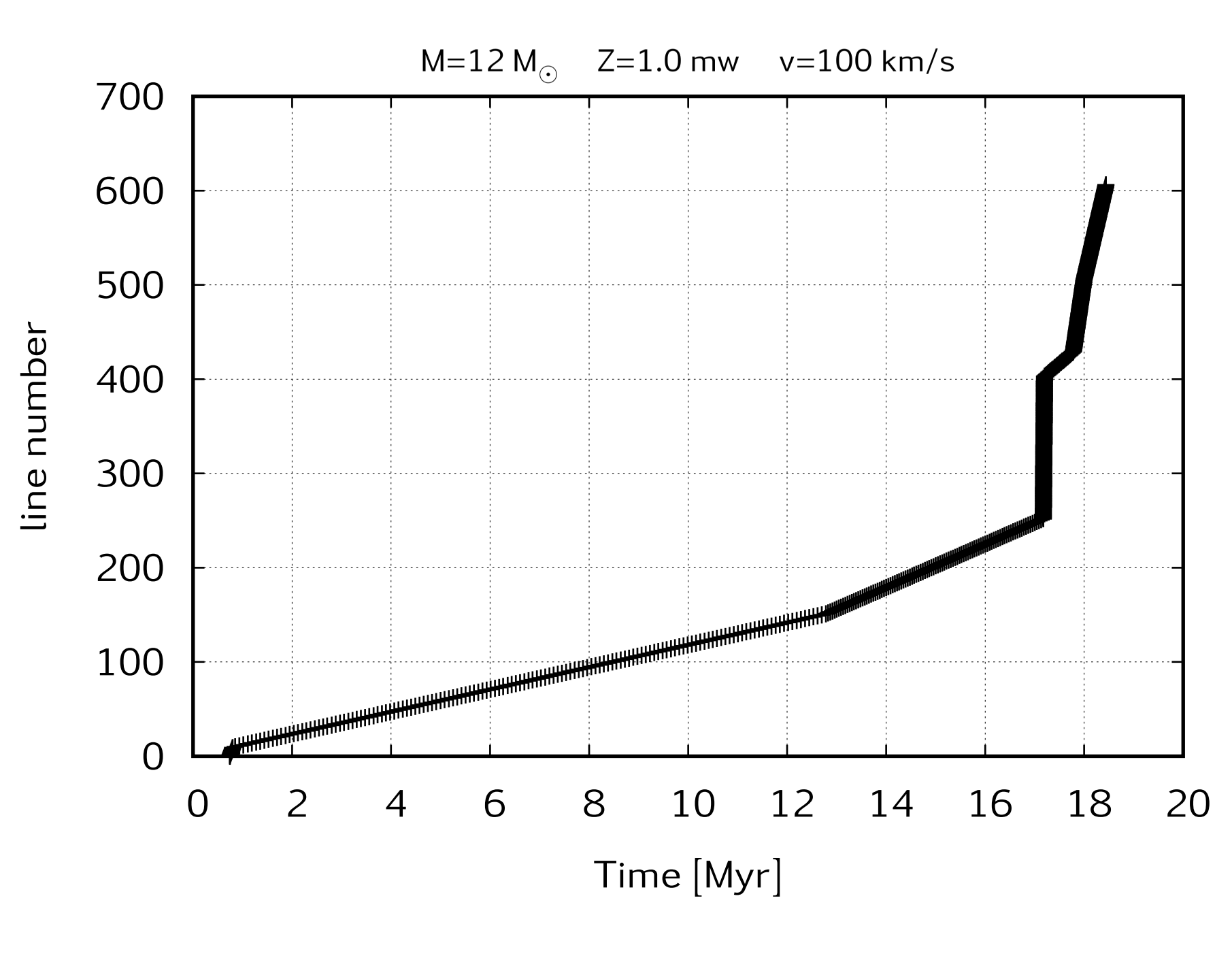
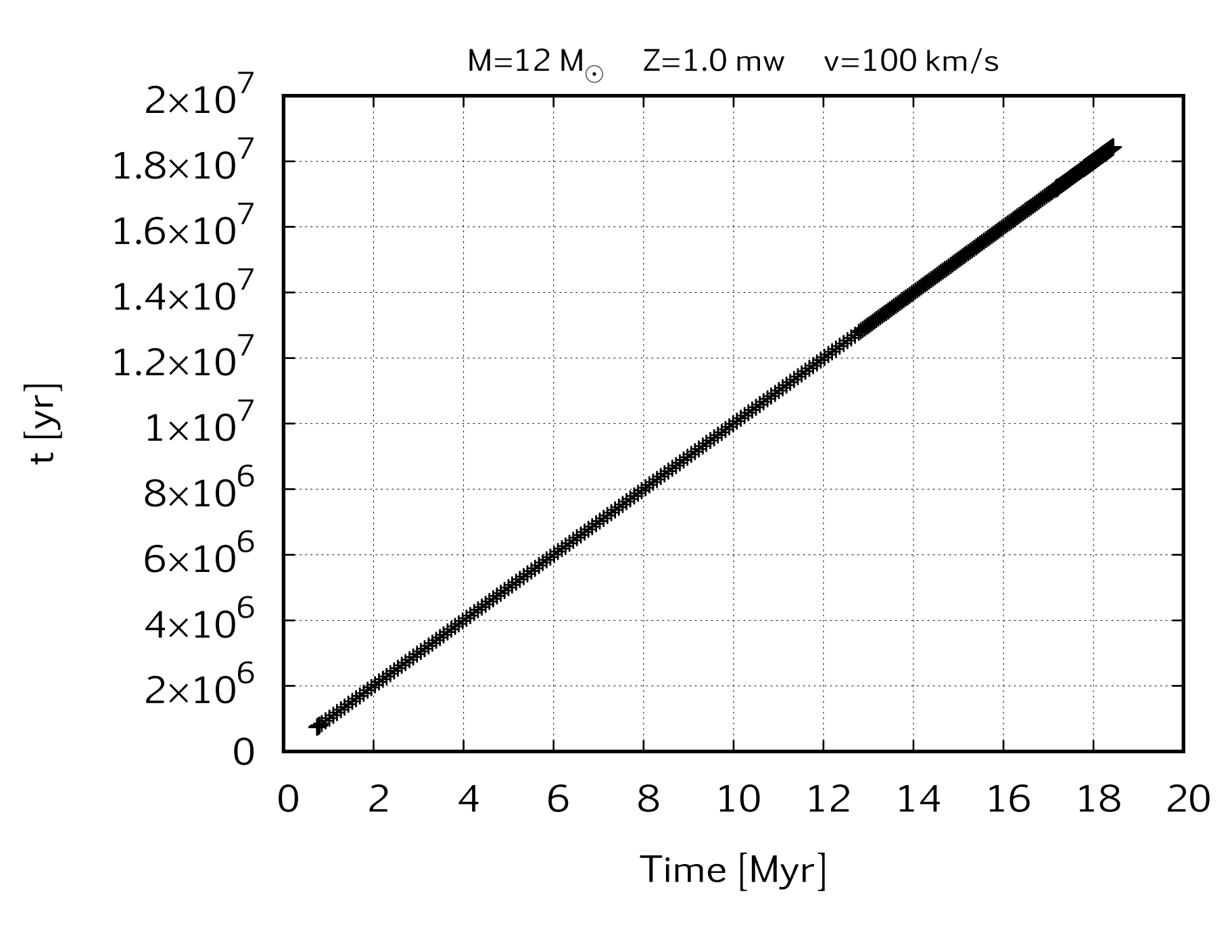
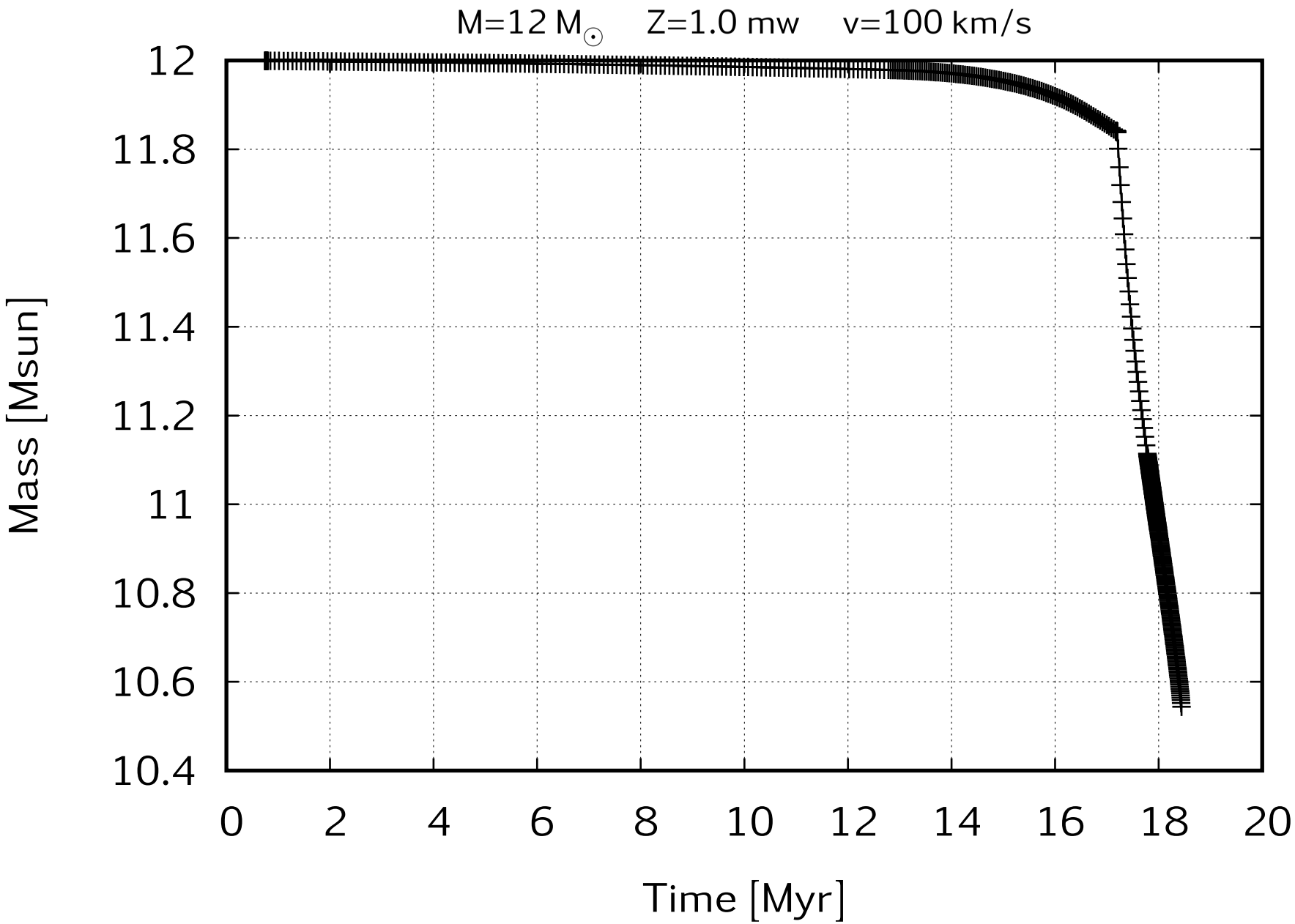
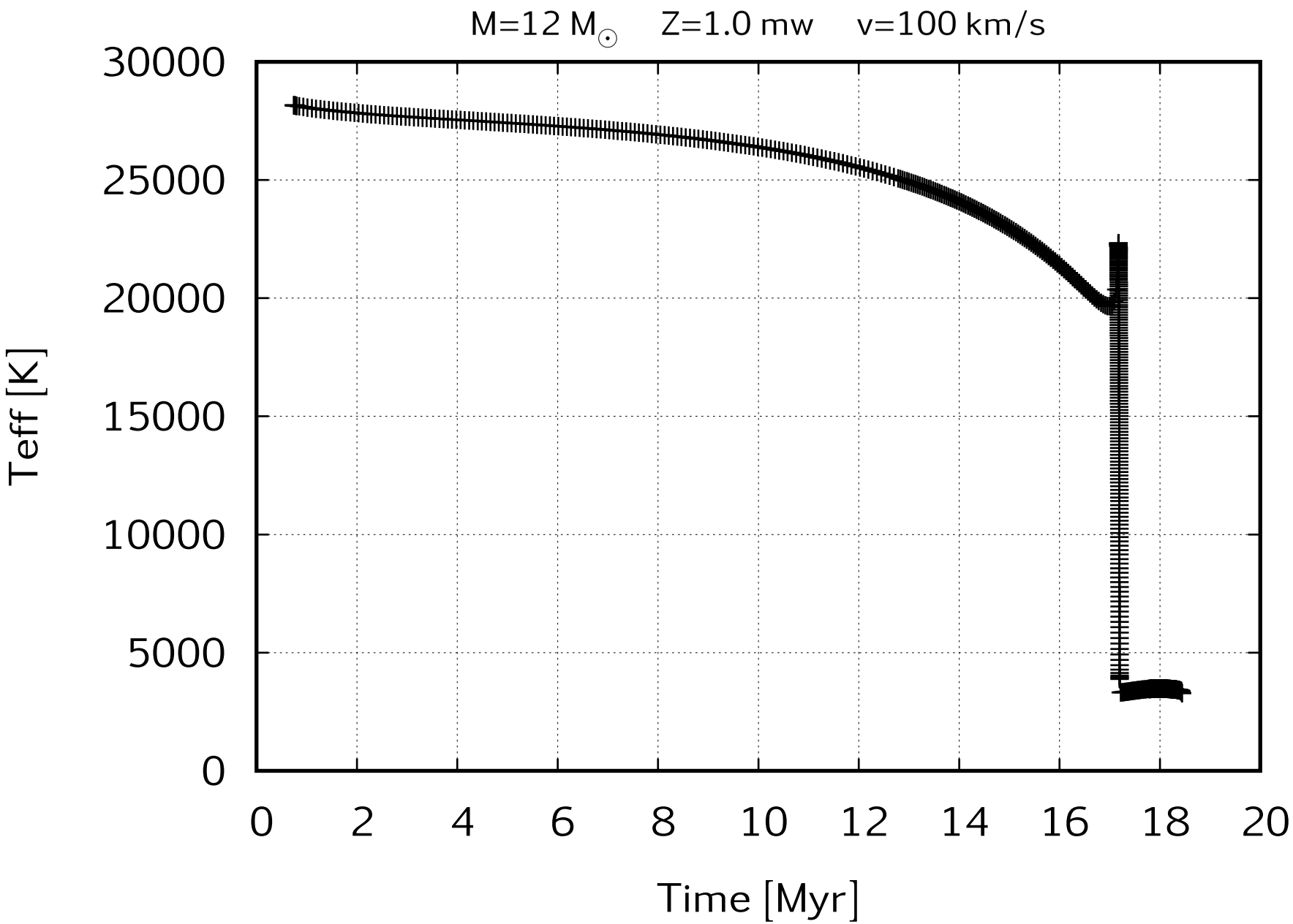
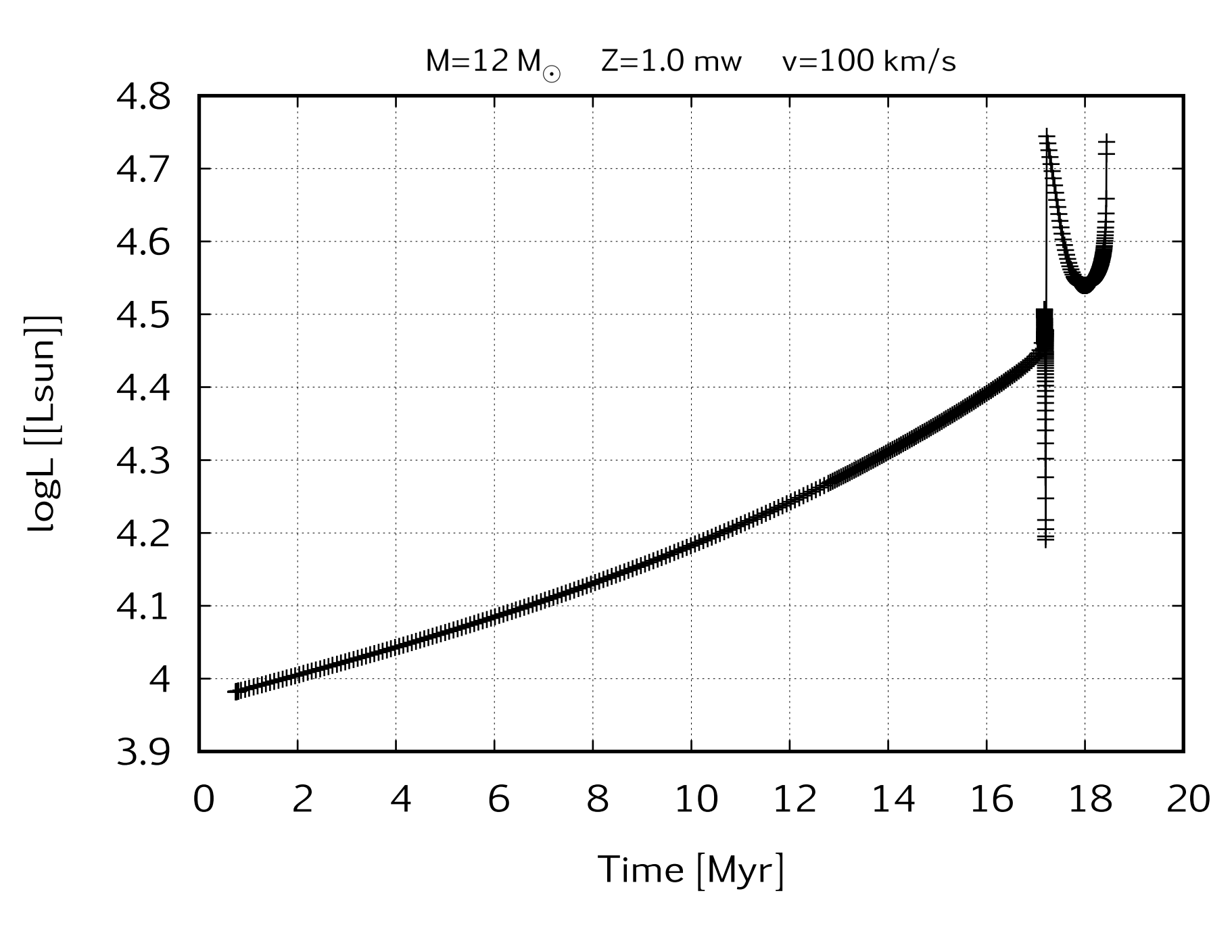
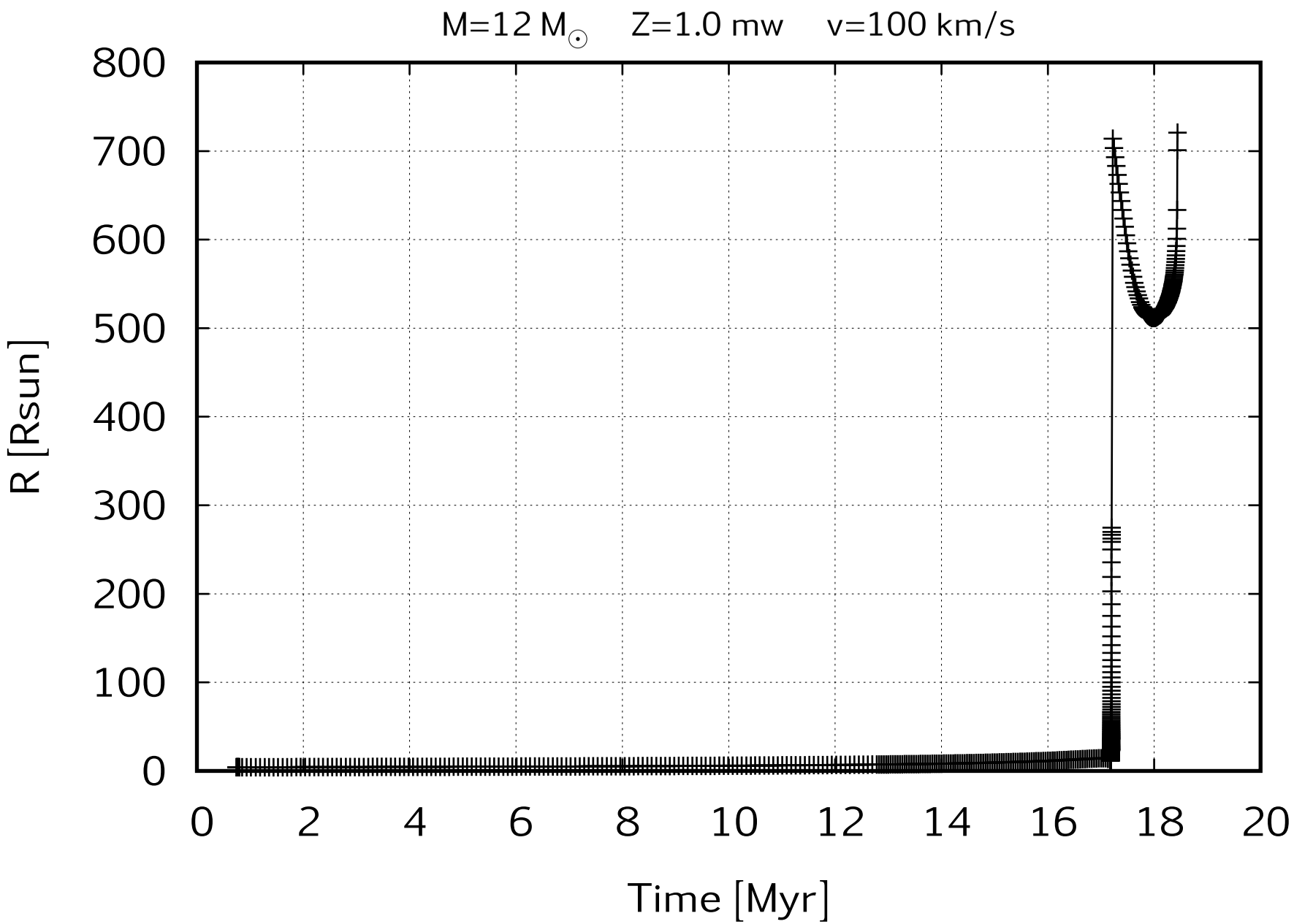

M=12 M⊙ Z=1.0 mw v=100 km/s
line number
Time [Myr]
0
100
200
300
400
500
600
700
0
2
4
6
8
10
12
14
16
18
20

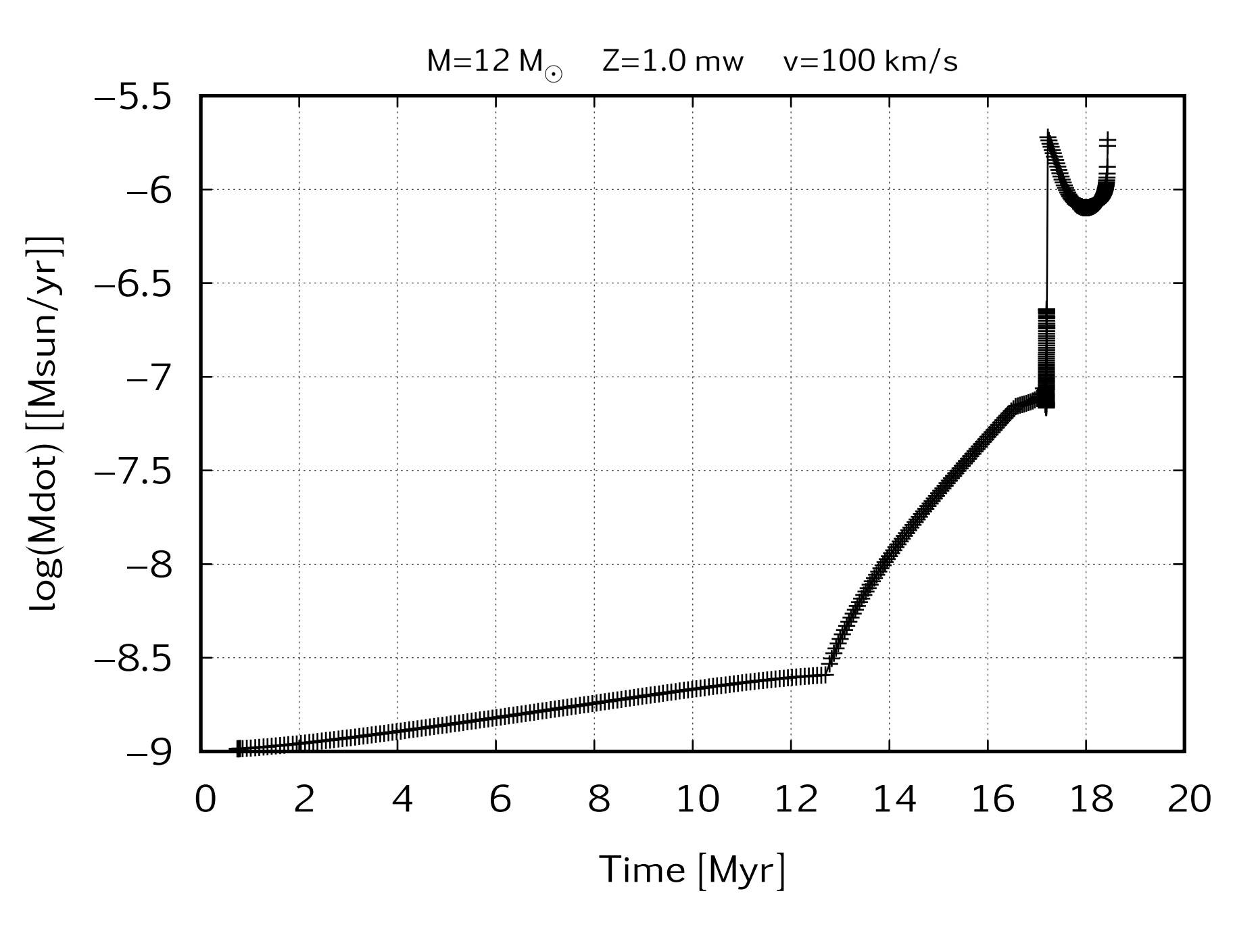

M=12 M⊙ Z=1.0 mw v=100 km/s
t [yr]
2×10^7
1.8×10^7
1.6×10^7
1.4×10^7
1.2×10^7
1×10^7
8×10^6
6×10^6
4×10^6
2×10^6
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

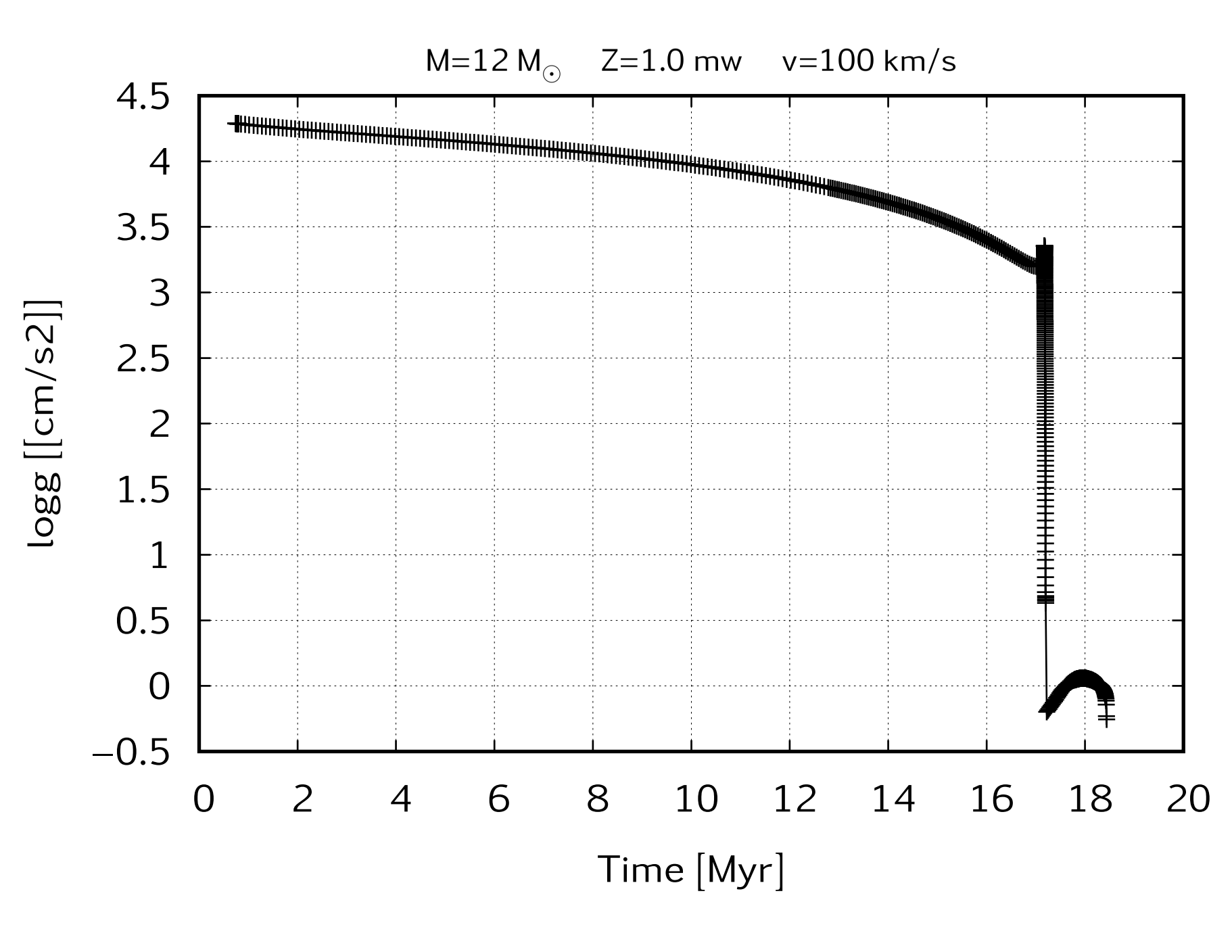

M=12 M⊙ Z=1.0 mw v=100 km/s
Mass [Msun]
12
11.8
11.6
11.4
11.2
11
10.8
10.6
10.4
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

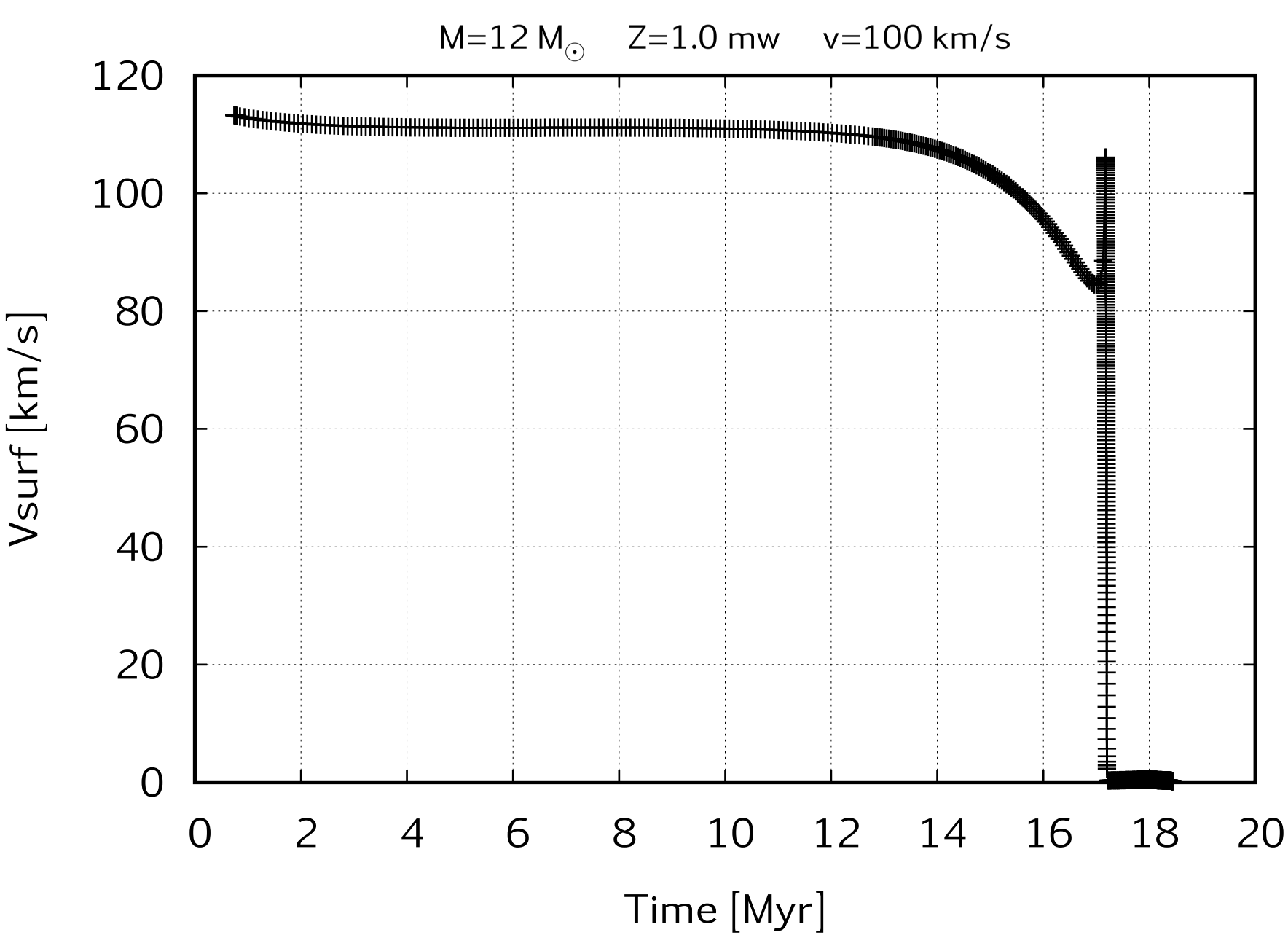

M=12 M⊙ Z=1.0 mw v=100 km/s
30000
25000
20000
15000
10000
5000
0
Teff [K]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

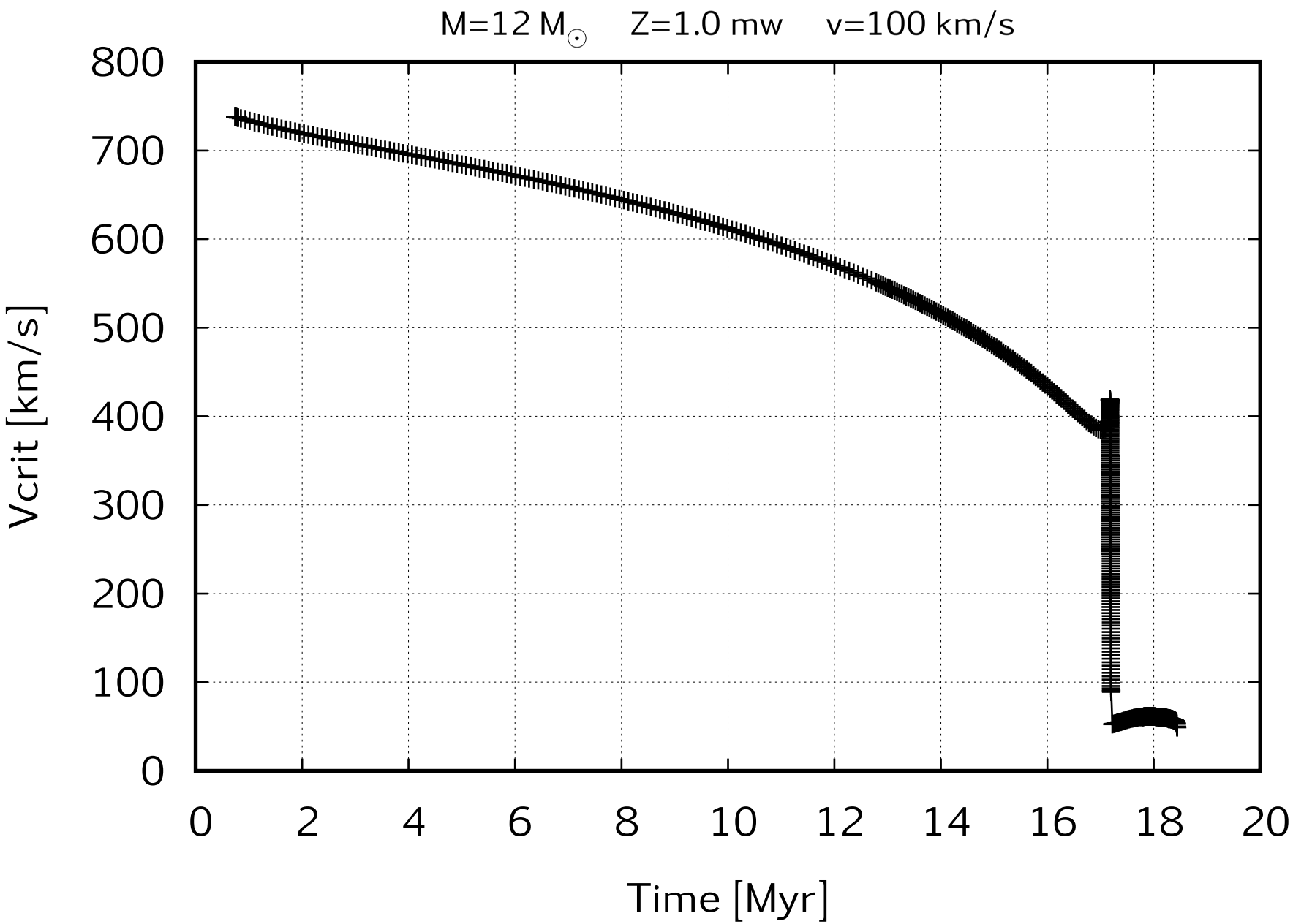

M=12 M⊙ Z=1.0 mw v=100 km/s
logL [[Lsun]]
Time [Myr]
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4
3.9
0
2
4
6
8
10
12
14
16
18
20

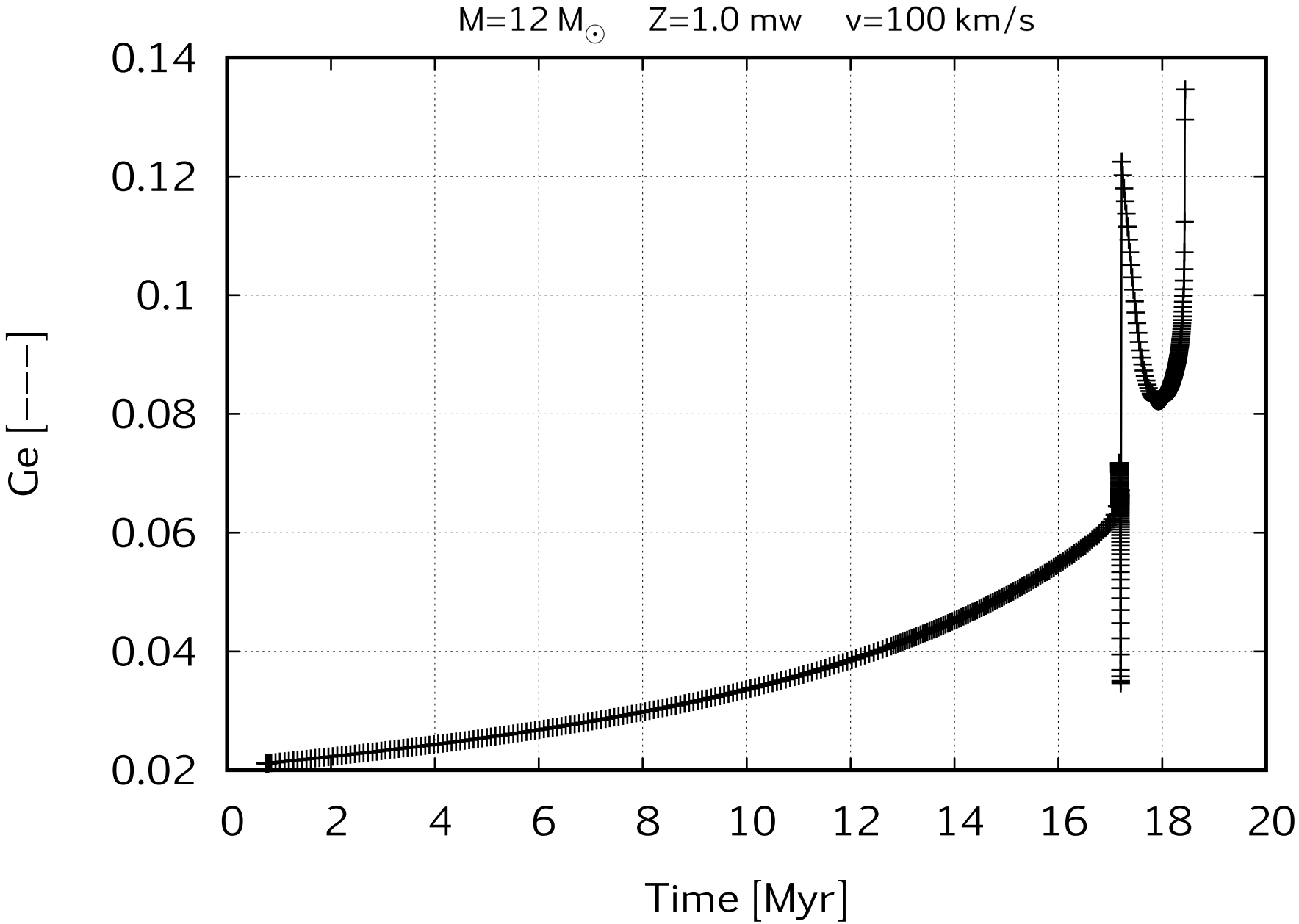

M=12 M⊙ Z=1.0 mw v=100 km/s
R [Rsun]
Time [Myr]
0
100
200
300
400
500
600
700
800
0
2
4
6
8
10
12
14
16
18
20

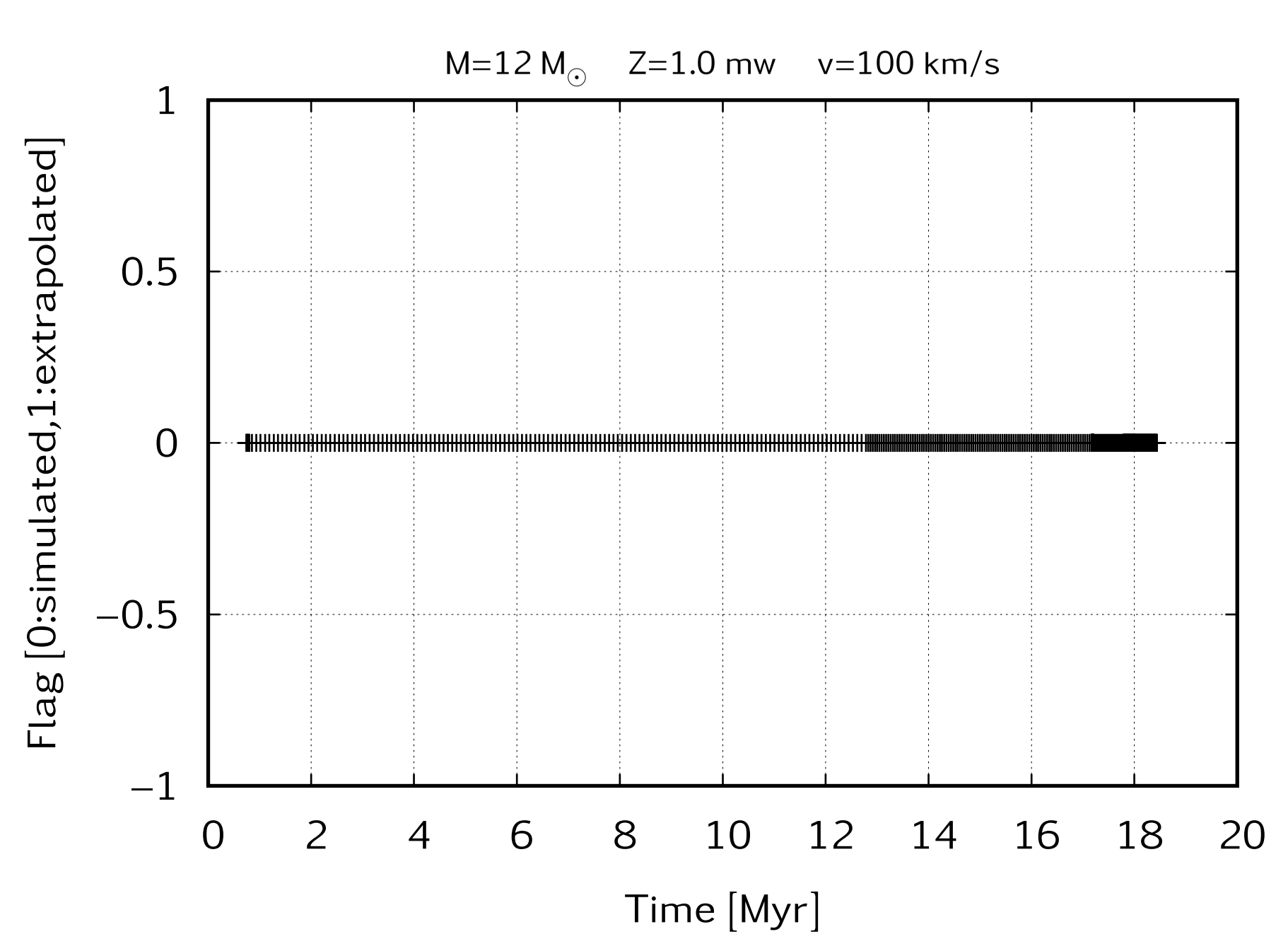

M=12 M⊙ Z=1.0 mw v=100 km/s
log(Mdot) [[Msun/yr]]
−5.5
−6
−6.5
−7
−7.5
−8
−8.5
−9
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

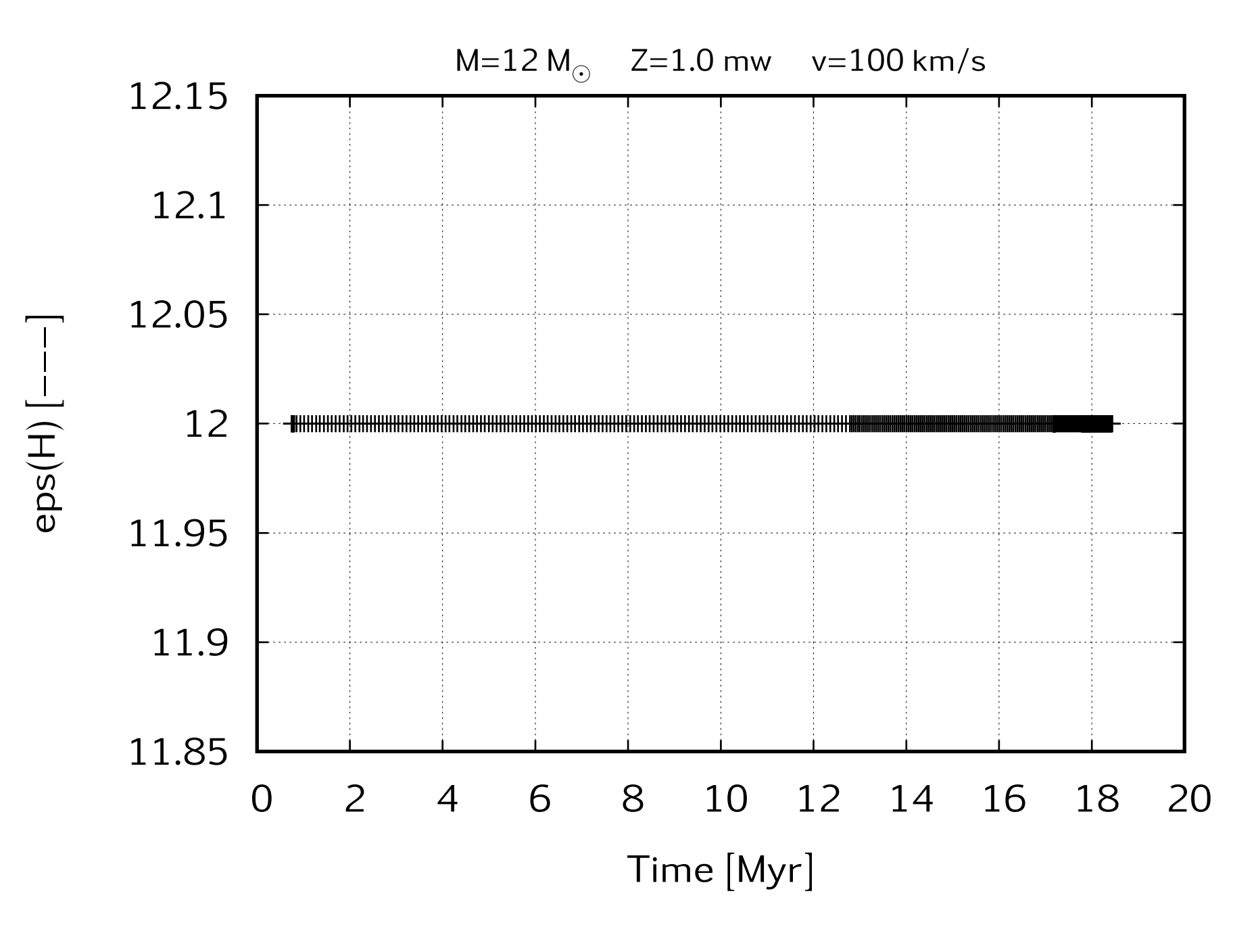

M=12 M⊙ Z=1.0 mw v=100 km/s
logg [[cm/s2]]
Time [Myr]
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
0
2
4
6
8
10
12
14
16
18
20

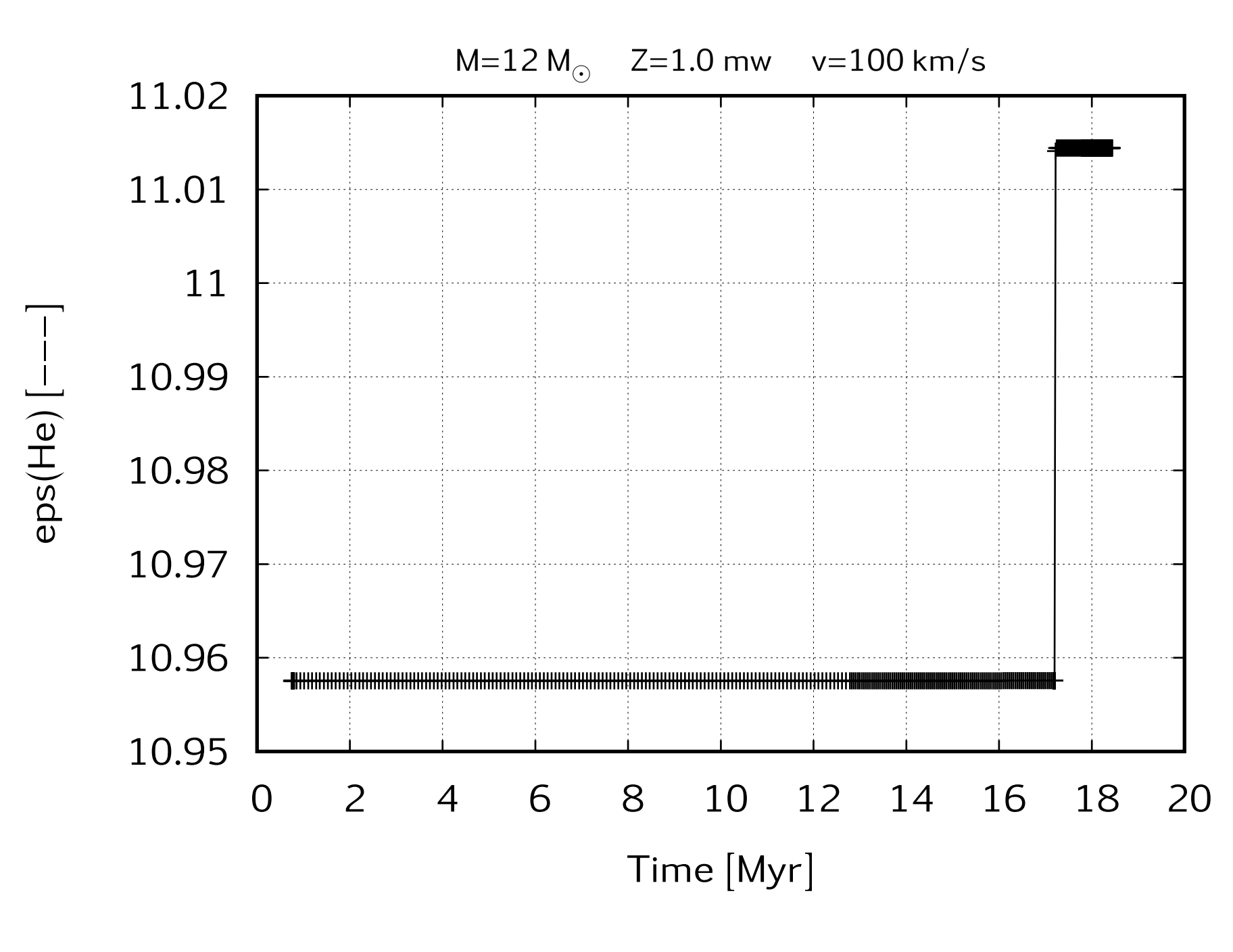

M=12 M⊙ Z=1.0 mw v=100 km/s
Vsurf [km/s]
Time [Myr]
0
20
40
60
80
100
120
0
2
4
6
8
10
12
14
16
18
20

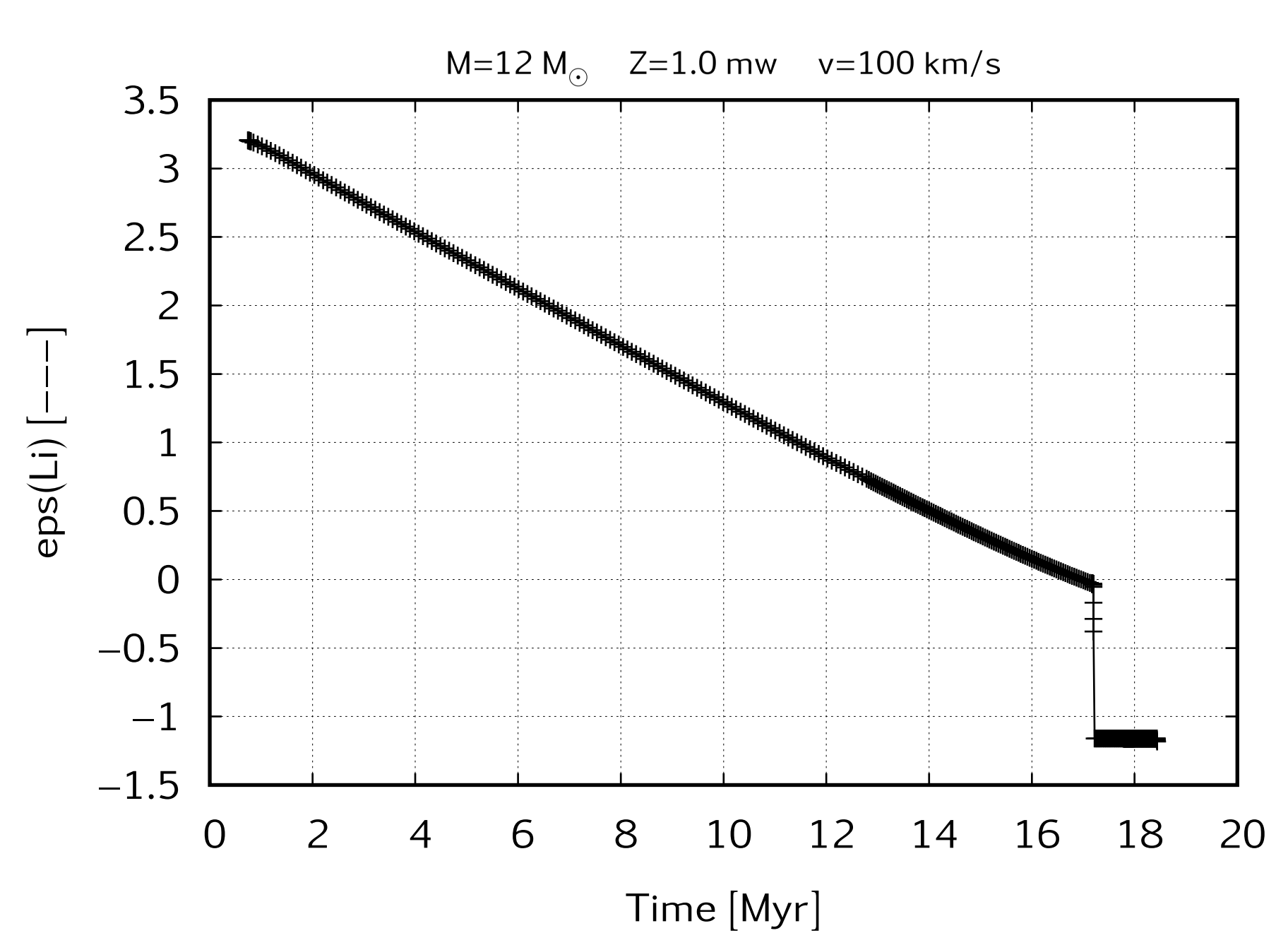

M=12 M⊙ Z=1.0 mw v=100 km/s
Vcrit [km/s]
800
700
600
500
400
300
200
100
0
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

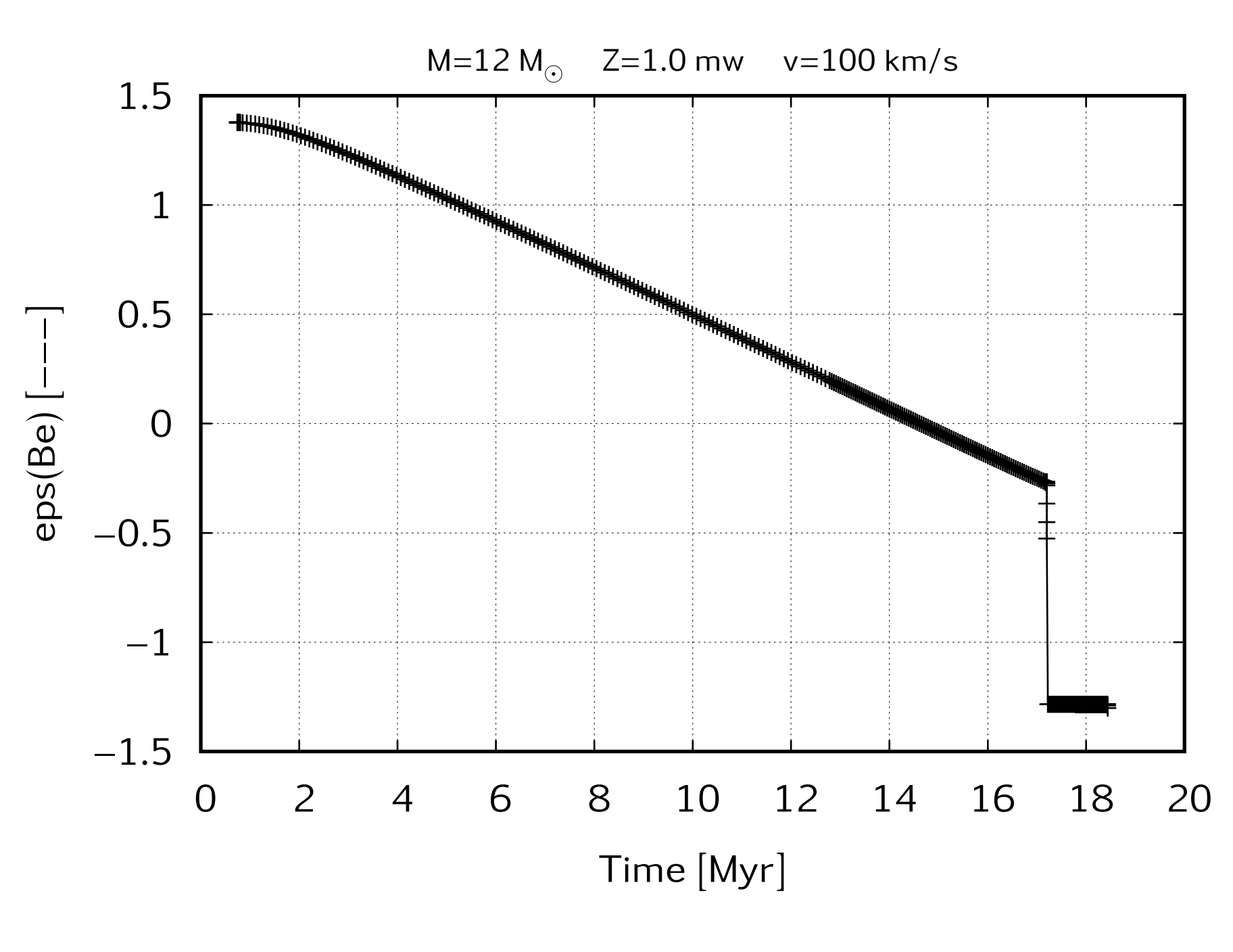

M=12 M⊙ Z=1.0 mw v=100 km/s
0.14
0.12
0.1
0.08
0.06
0.04
0.02
Ge [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

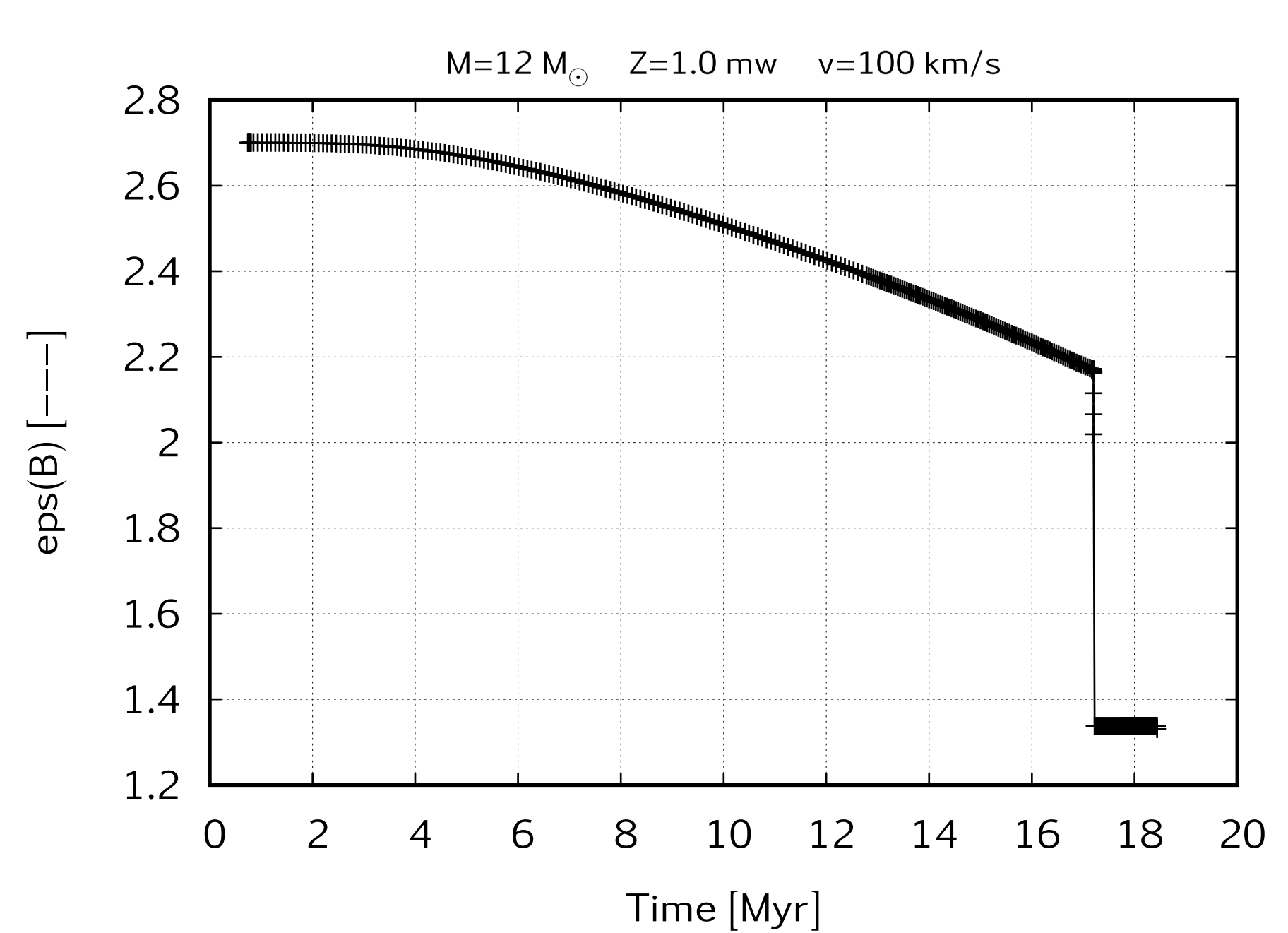

M=12 M⊙ Z=1.0 mw v=100 km/s
Flag [0:simulated,1:extrapolated]
1
0.5
0
−0.5
−1
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

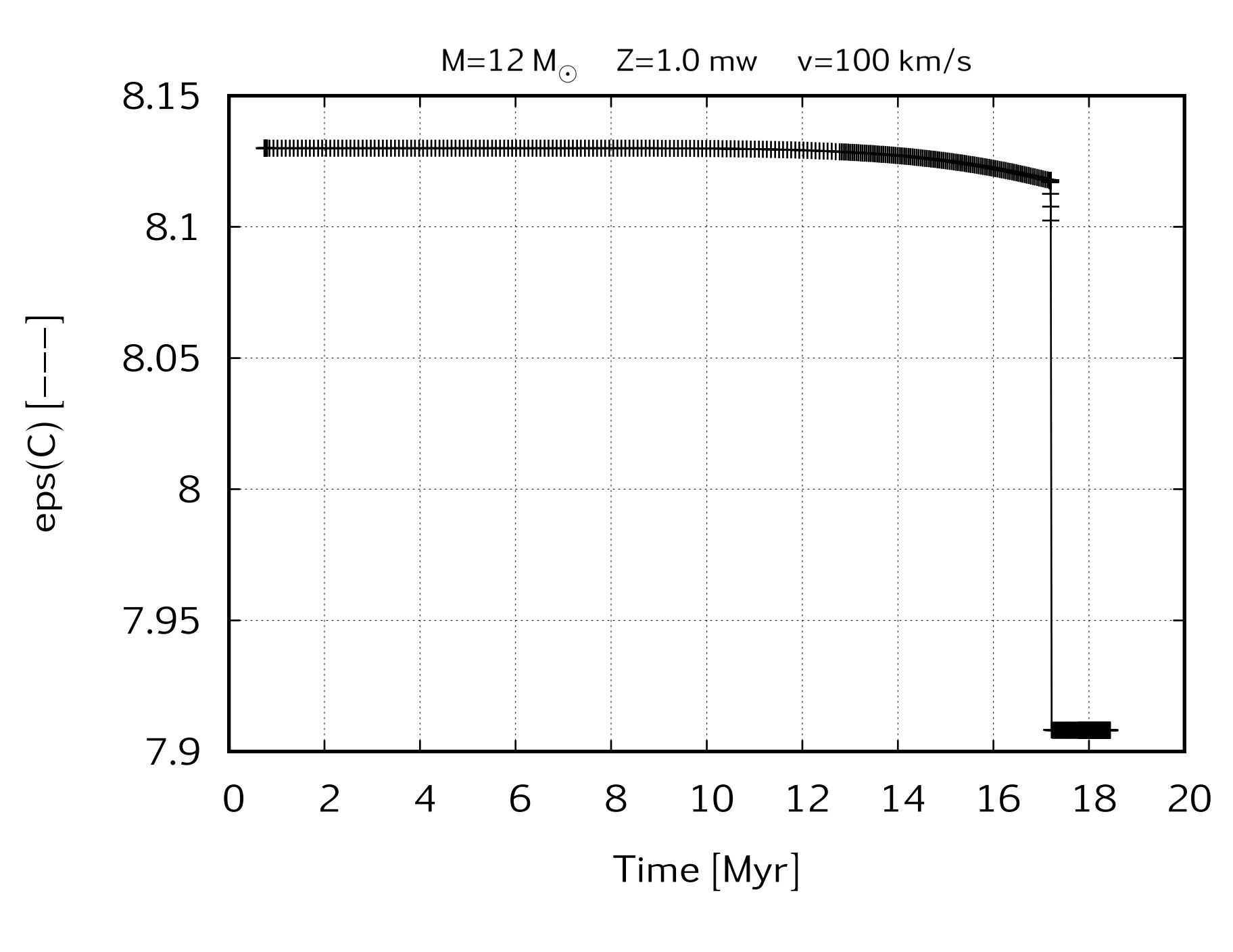

M=12 M⊙ Z=1.0 mw v=100 km/s
12.15
12.1
12.05
12
11.95
11.9
11.85
eps(H) [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

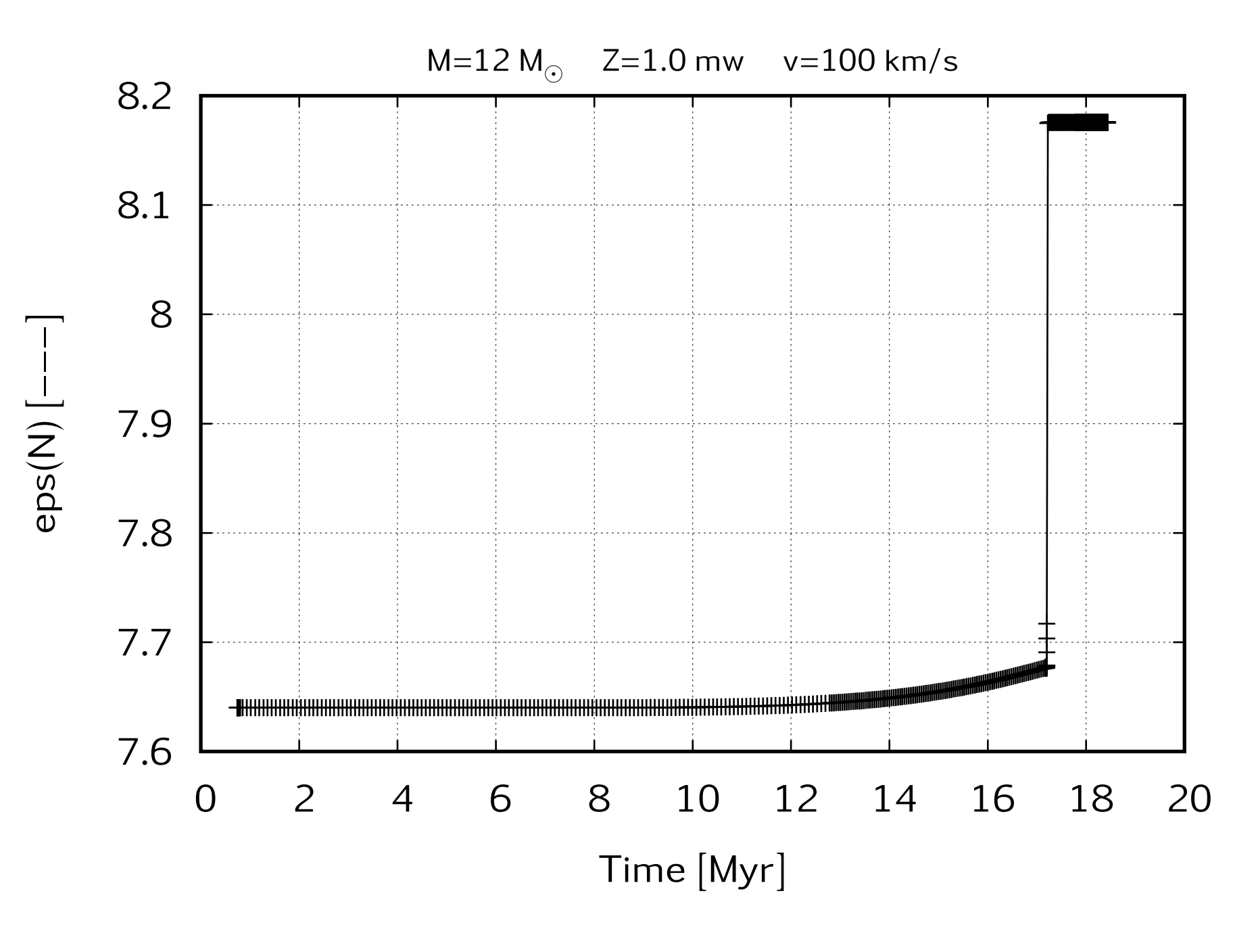

M=12 M⊙ Z=1.0 mw v=100 km/s
11.02
11.01
11
10.99
10.98
10.97
10.96
10.95
eps(He) [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

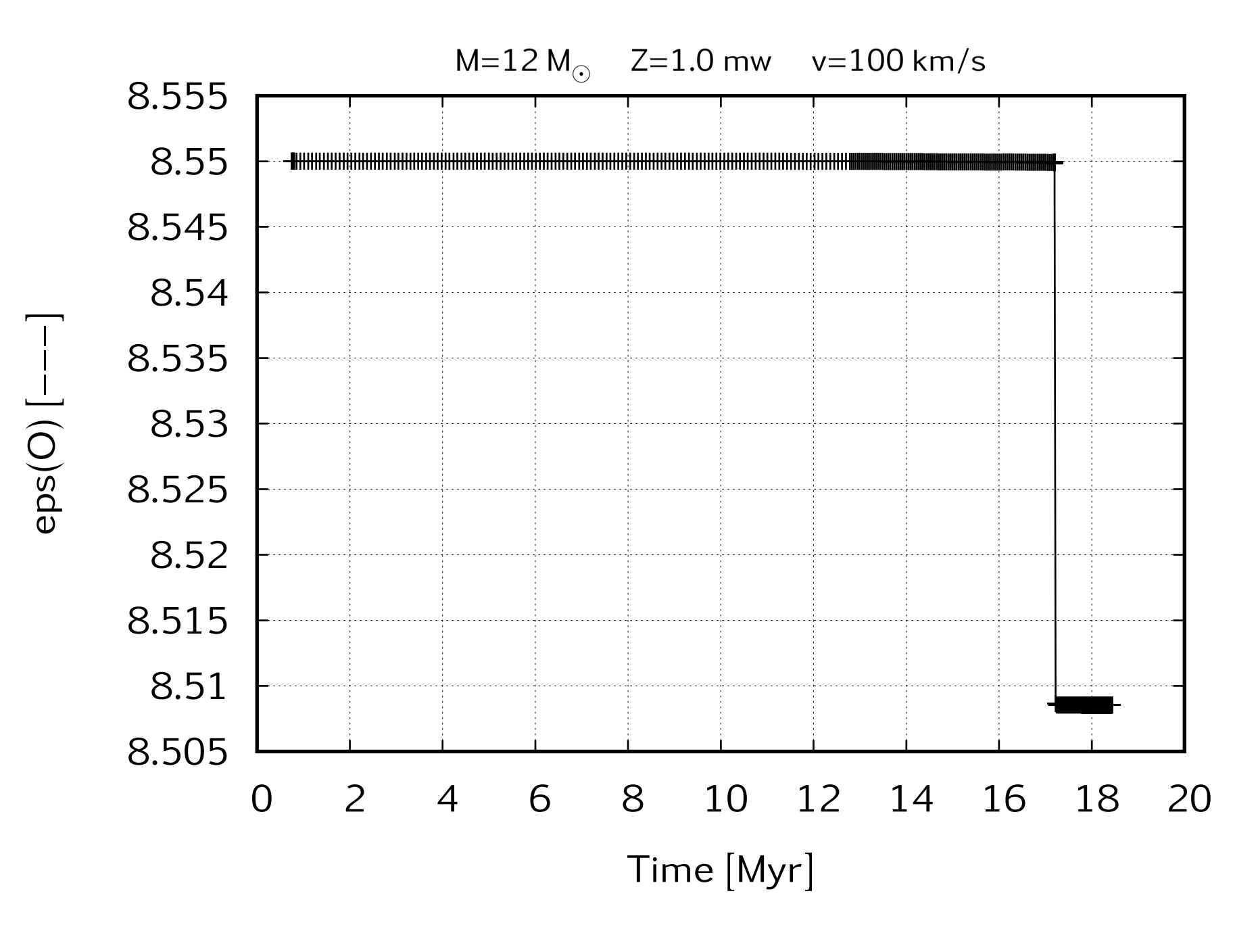

M=12 M⊙ Z=1.0 mw v=100 km/s
eps(Li) [---]
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

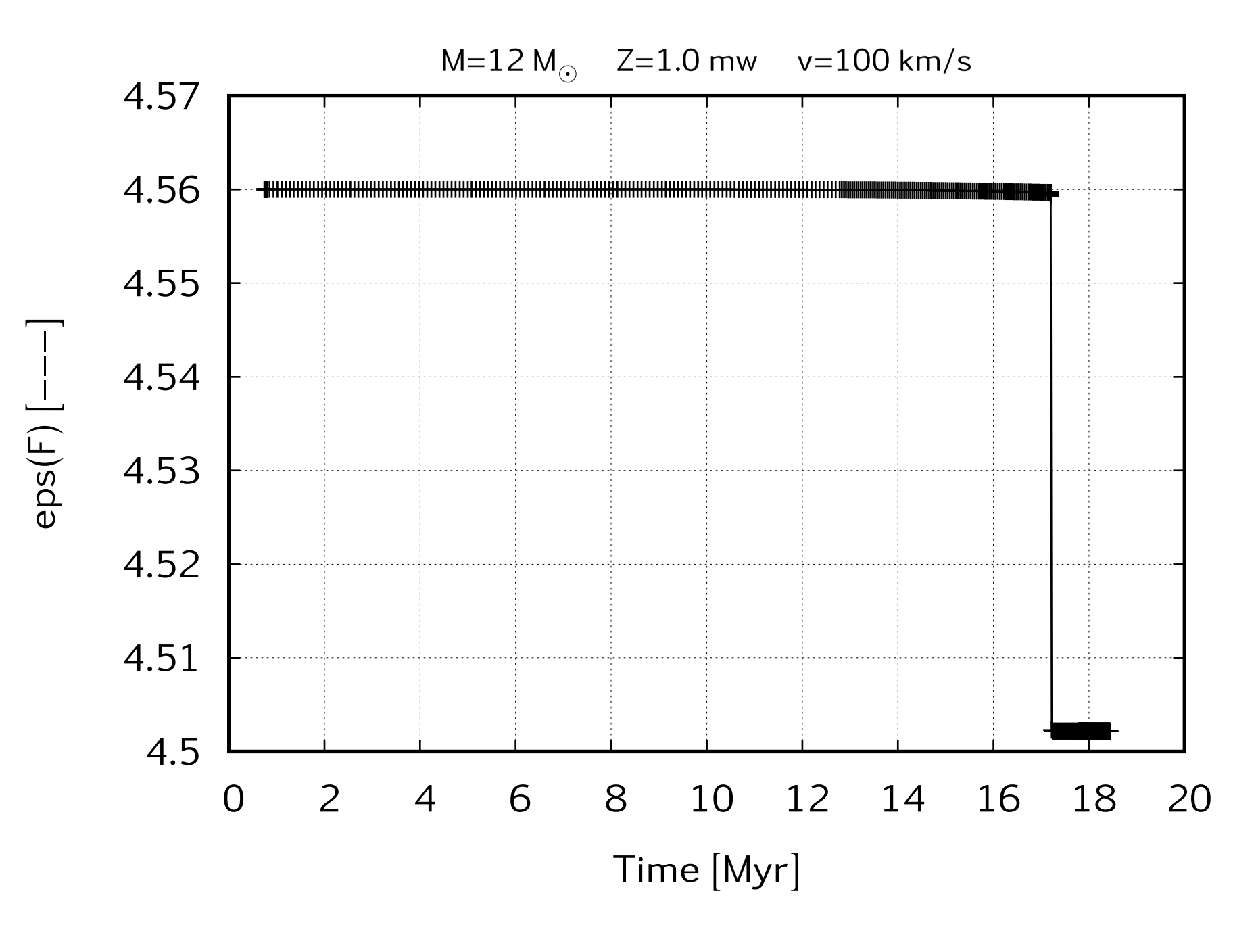

M=12 M⊙ Z=1.0 mw v=100 km/s
eps(Be) [---]
Time [Myr]
1.5
1
0.5
0
−0.5
−1
−1.5
0
2
4
6
8
10
12
14
16
18
20

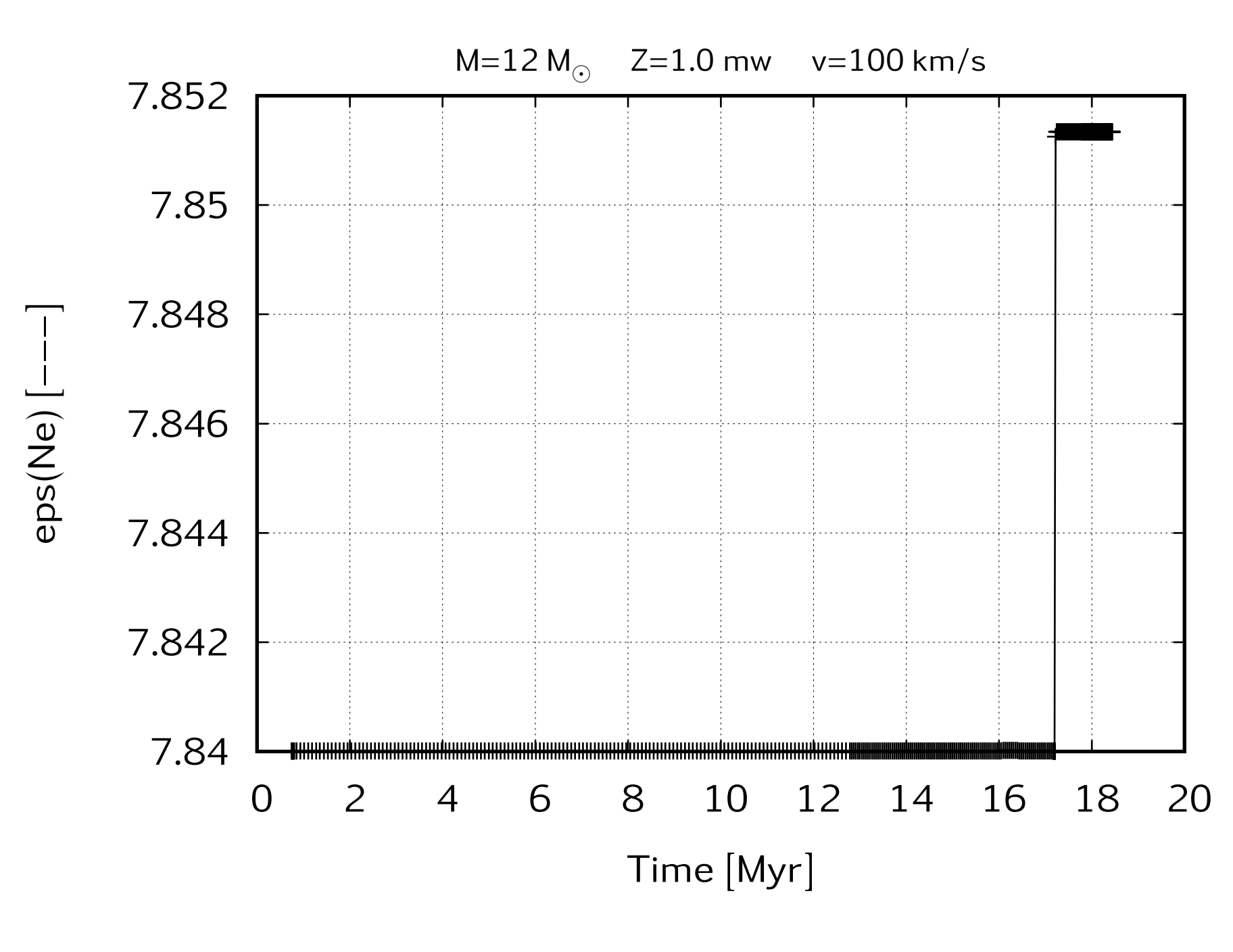

M=12 M⊙ Z=1.0 mw v=100 km/s
eps(B) [---]
Time [Myr]
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
2
4
6
8
10
12
14
16
18
20

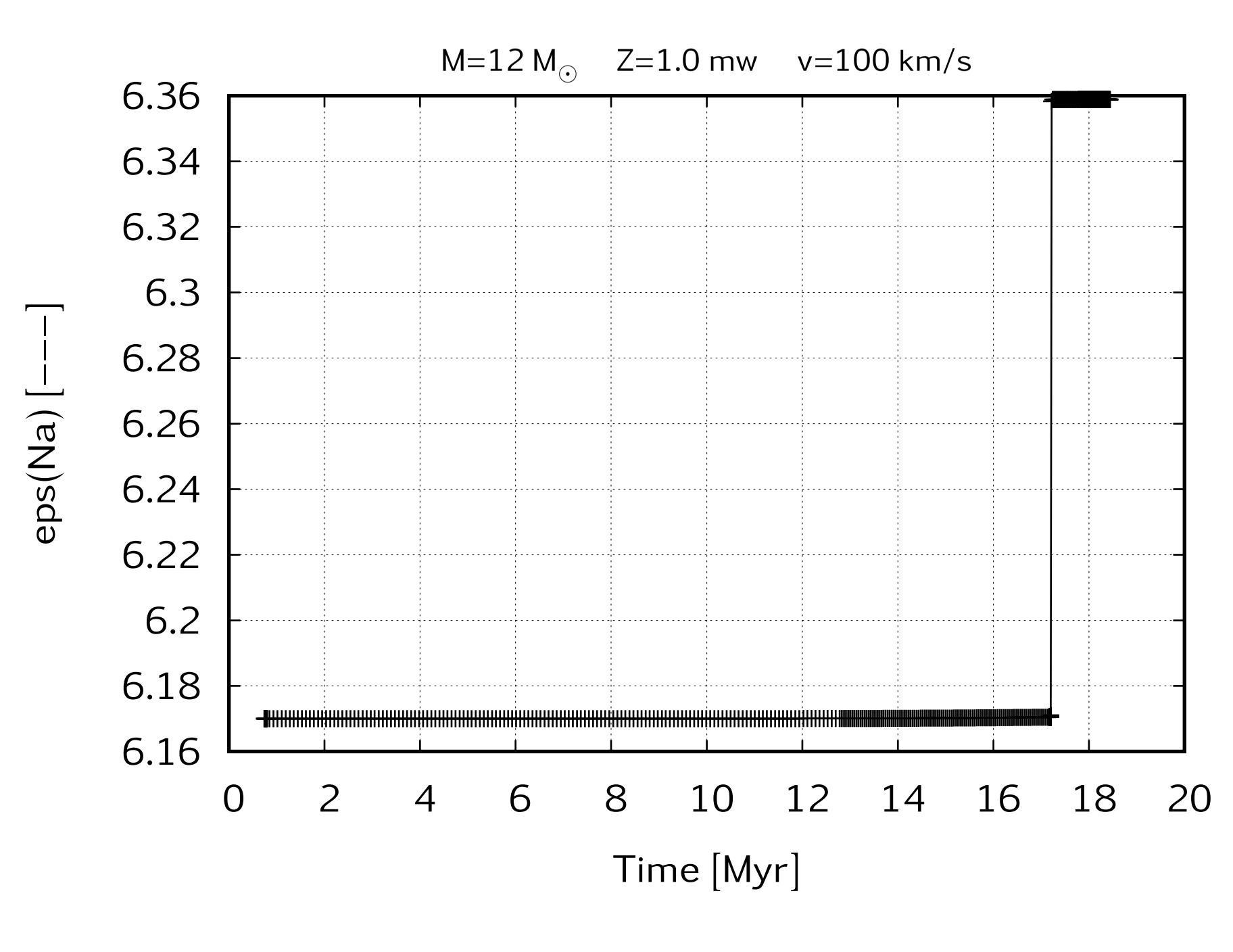

M=12 M⊙ Z=1.0 mw v=100 km/s
8.15
8.1
8.05
8
7.95
7.9
eps(C) [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

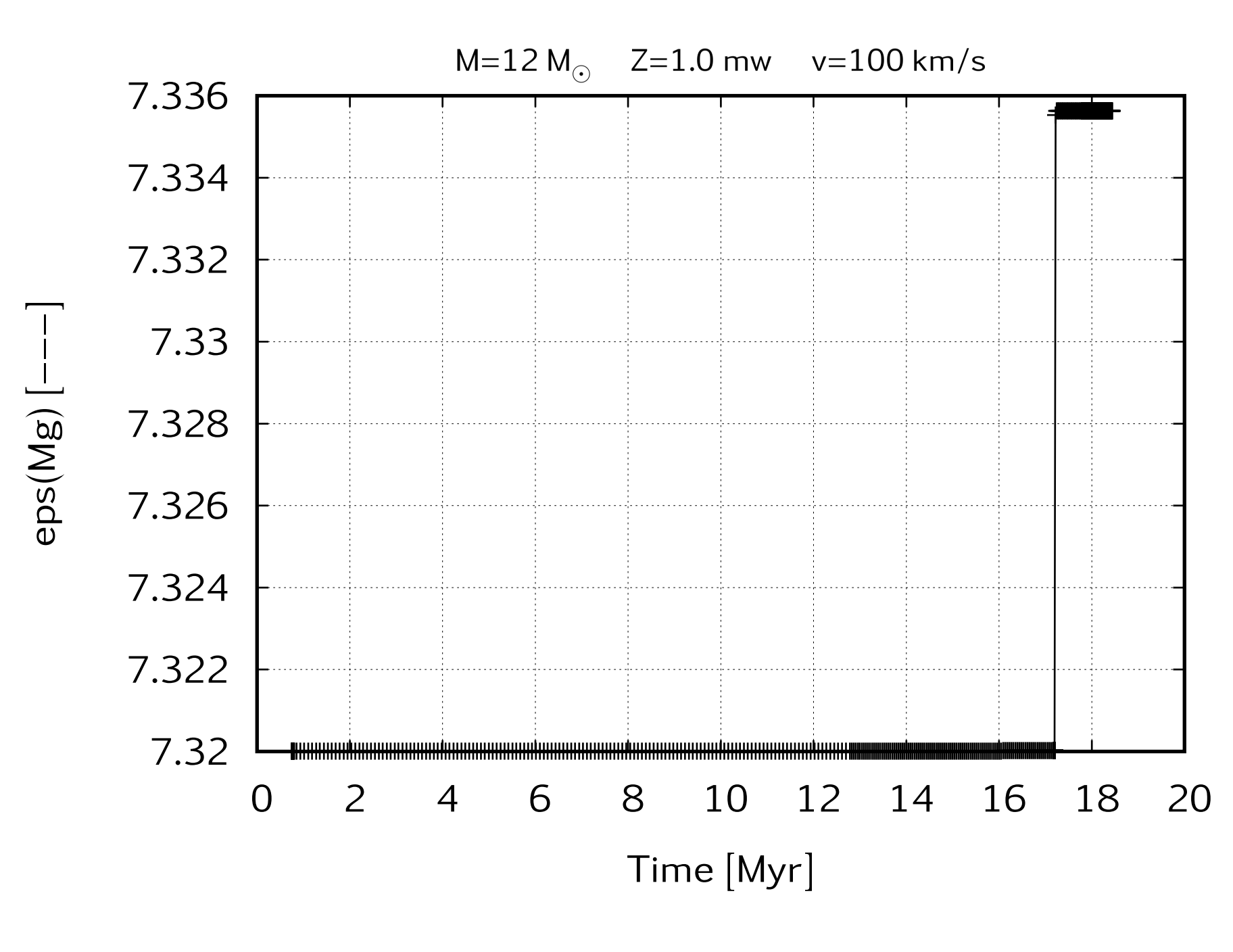

M=12 M⊙ Z=1.0 mw v=100 km/s
8.2
8.1
8
7.9
7.8
7.7
7.6
eps(N) [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

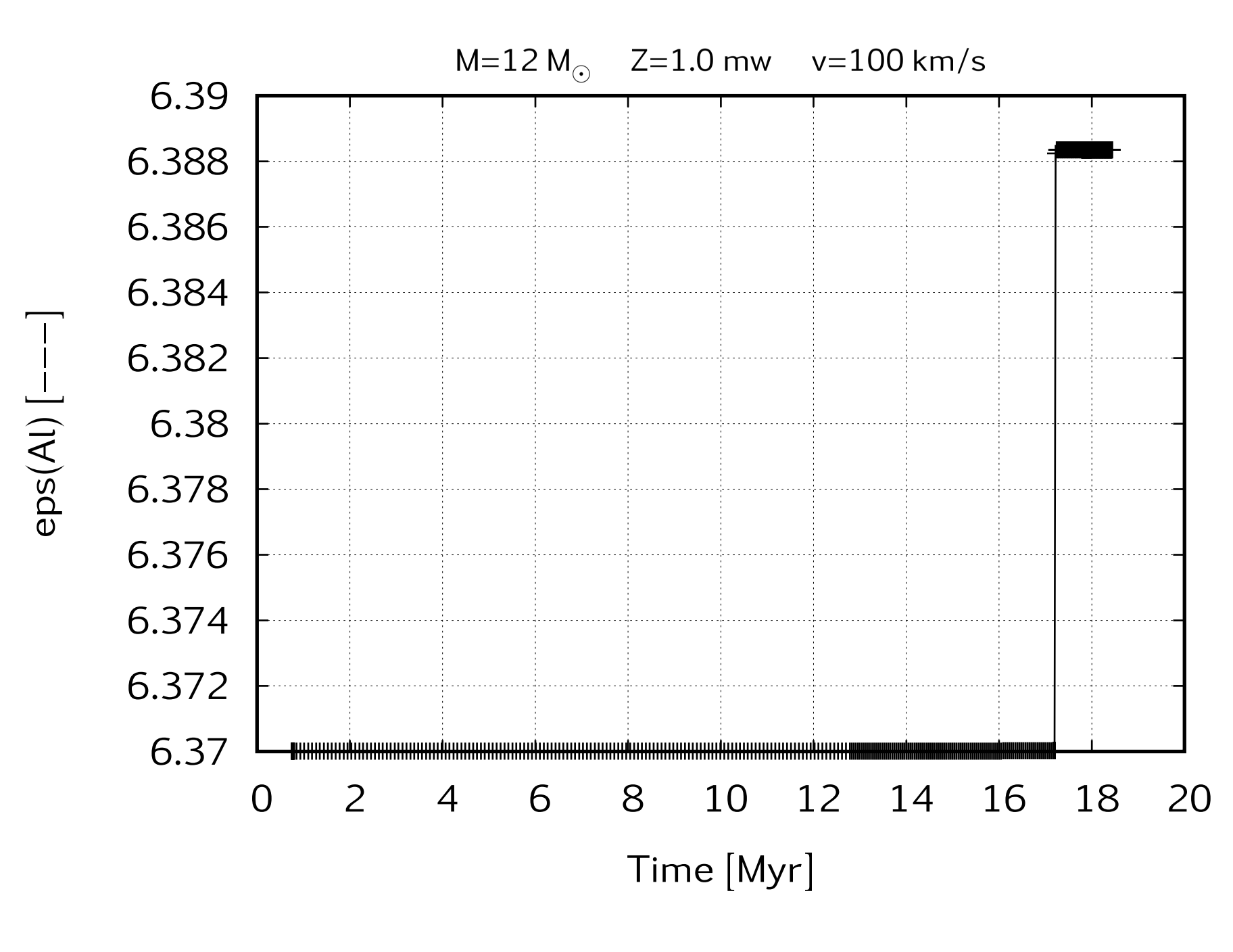

M=12 M⊙ Z=1.0 mw v=100 km/s
8.555
8.55
8.545
8.54
8.535
8.53
8.525
8.52
8.515
8.51
8.505
eps(O) [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

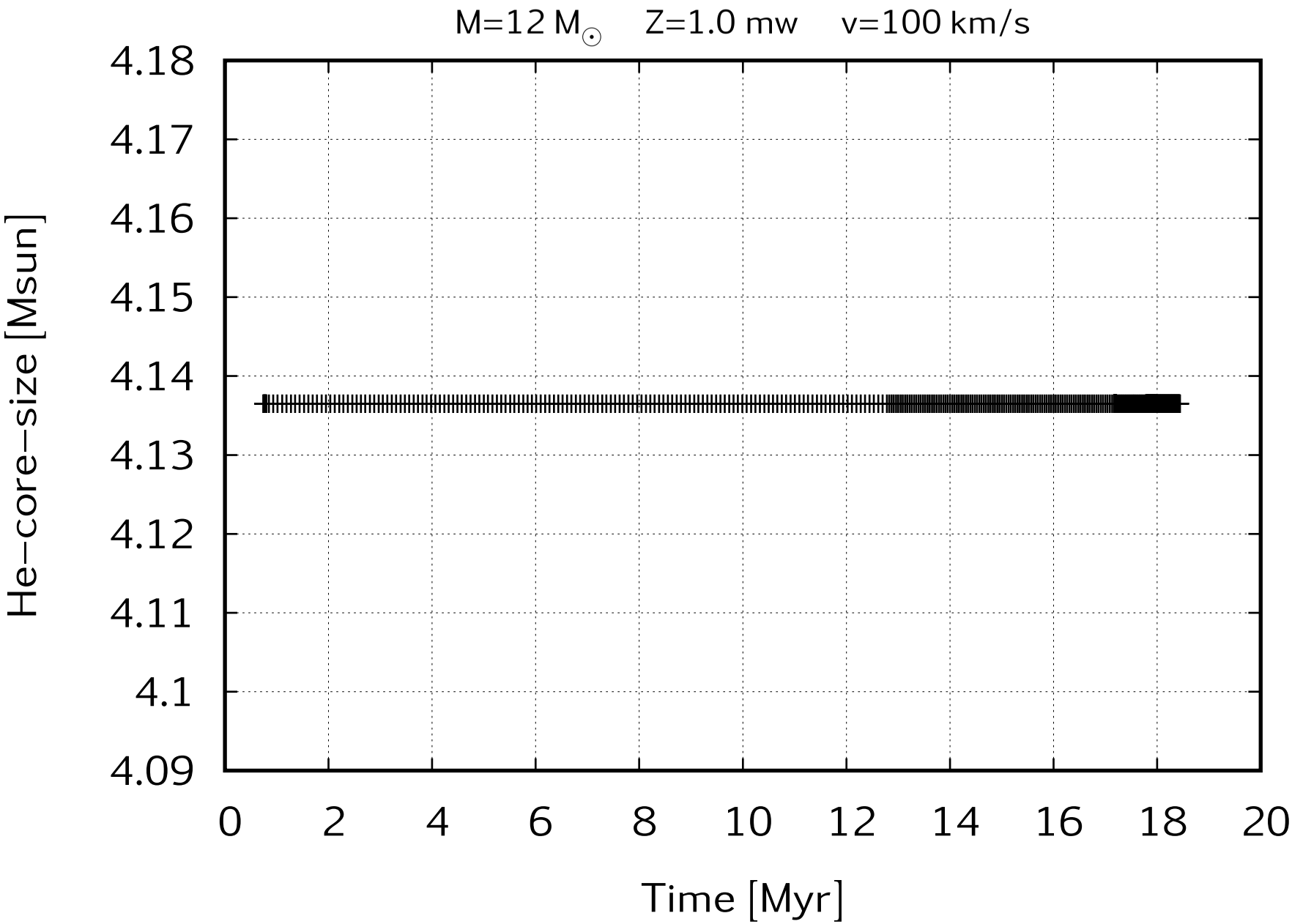

M=12 M⊙ Z=1.0 mw v=100 km/s
4.57
4.56
4.55
4.54
4.53
4.52
4.51
4.5
eps(F) [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

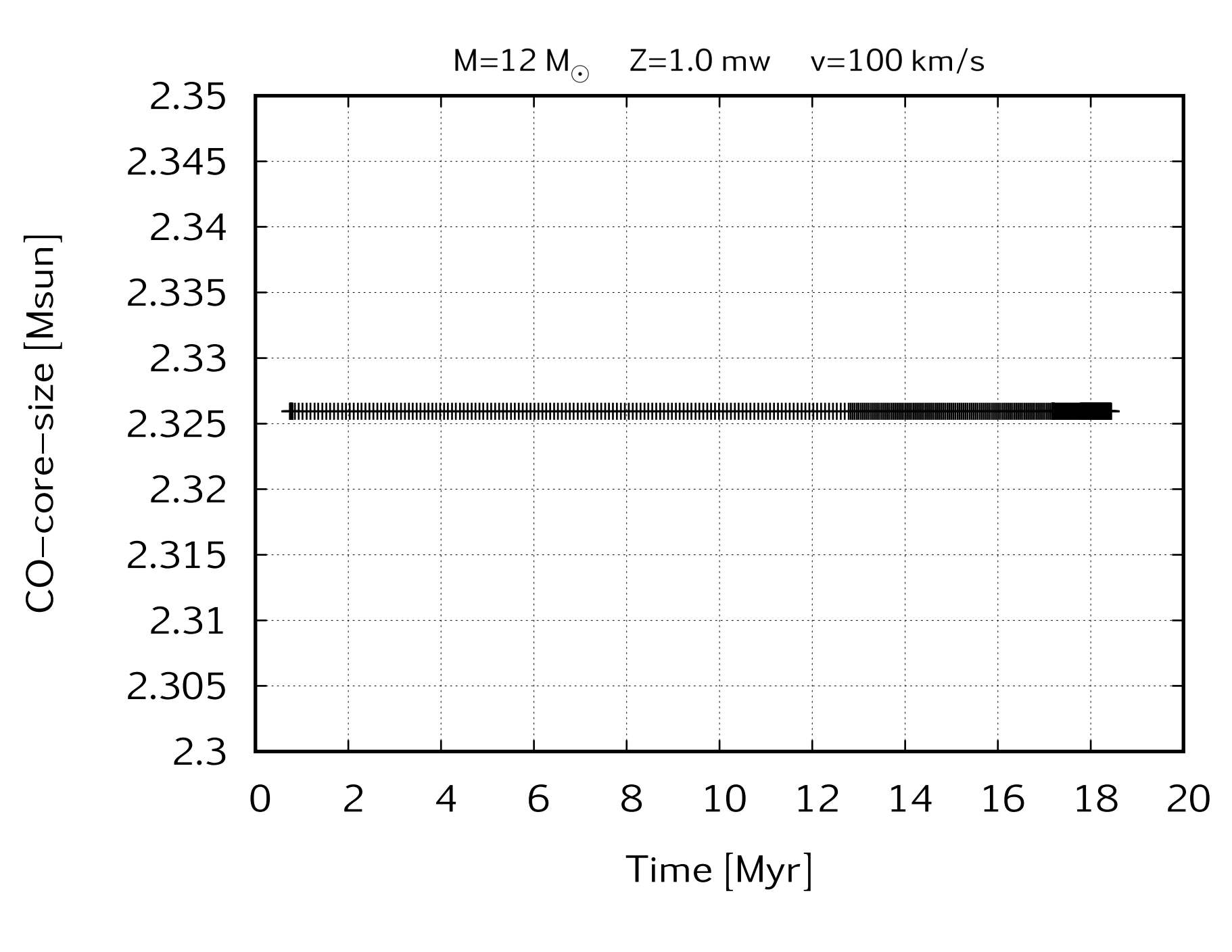

M=12 M⊙ Z=1.0 mw v=100 km/s
7.852
7.85
7.848
7.846
7.844
7.842
7.84
eps(Ne) [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

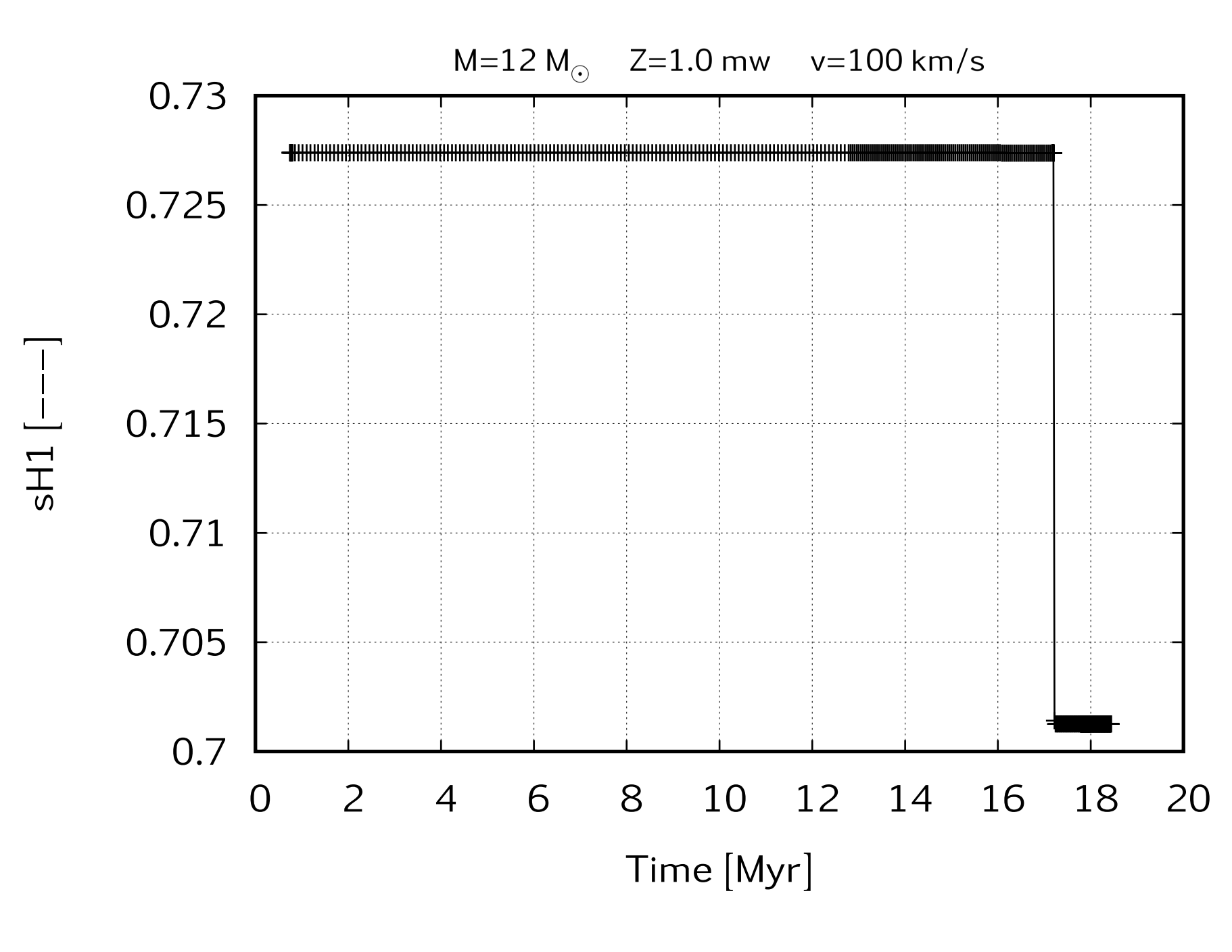

M=12 M⊙ Z=1.0 mw v=100 km/s
6.36
6.34
6.32
6.3
6.28
6.26
6.24
6.22
6.2
6.18
6.16
eps(Na) [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

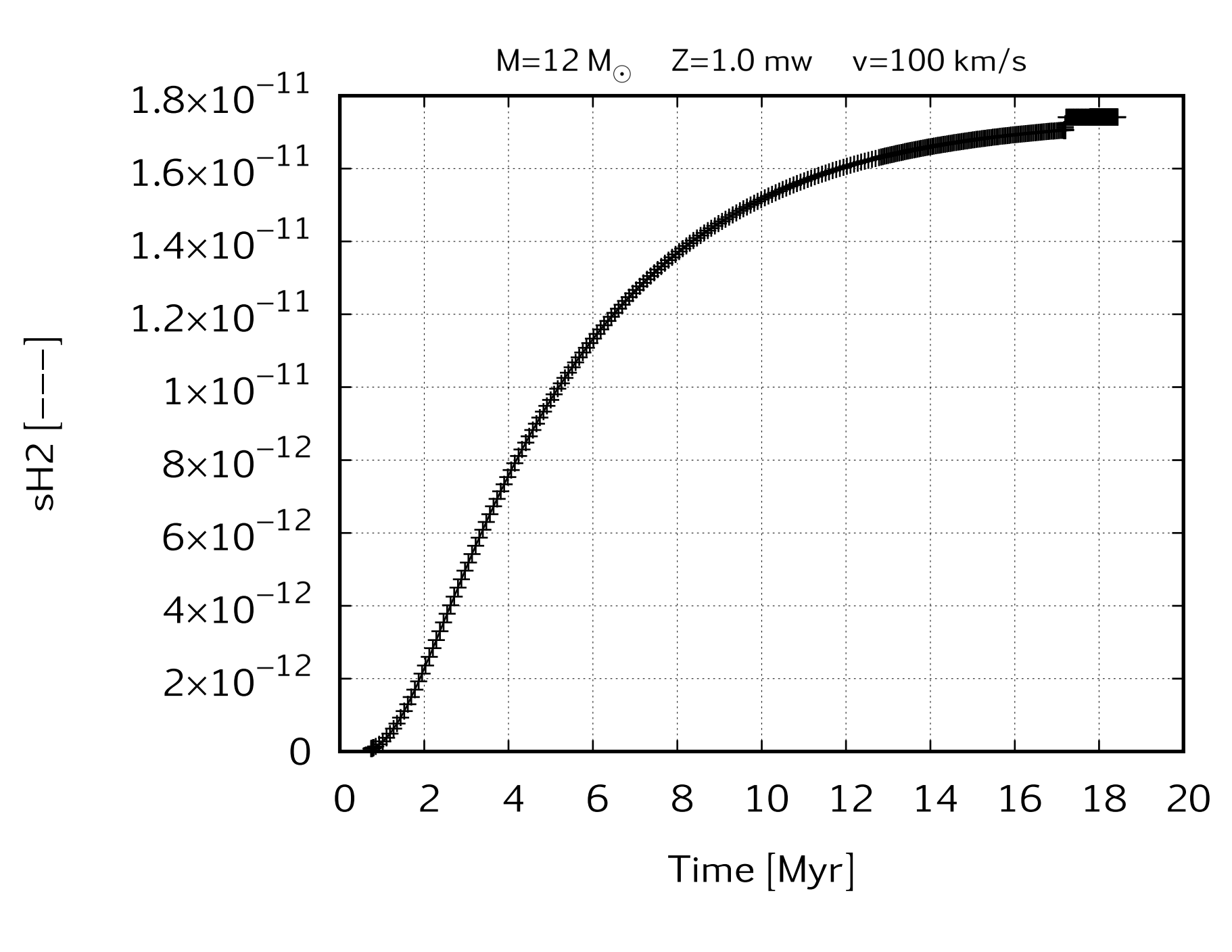

M=12 M⊙ Z=1.0 mw v=100 km/s
7.336
7.334
7.332
7.33
7.328
7.326
7.324
7.322
7.32
eps(Mg) [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

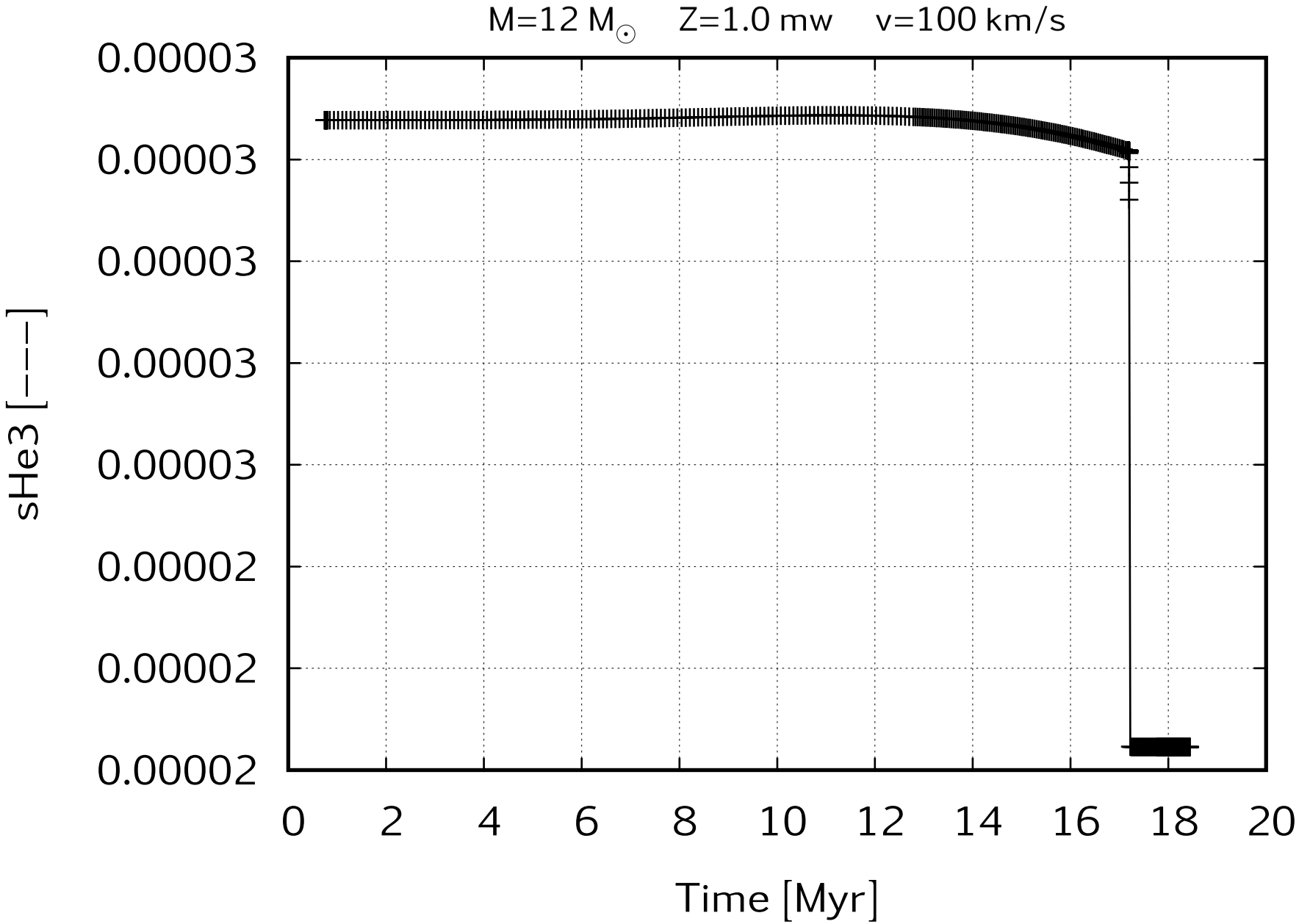

M=12 M⊙ Z=1.0 mw v=100 km/s
6.39
6.388
6.386
6.384
6.382
6.38
6.378
6.376
6.374
6.372
6.37
eps(Al) [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

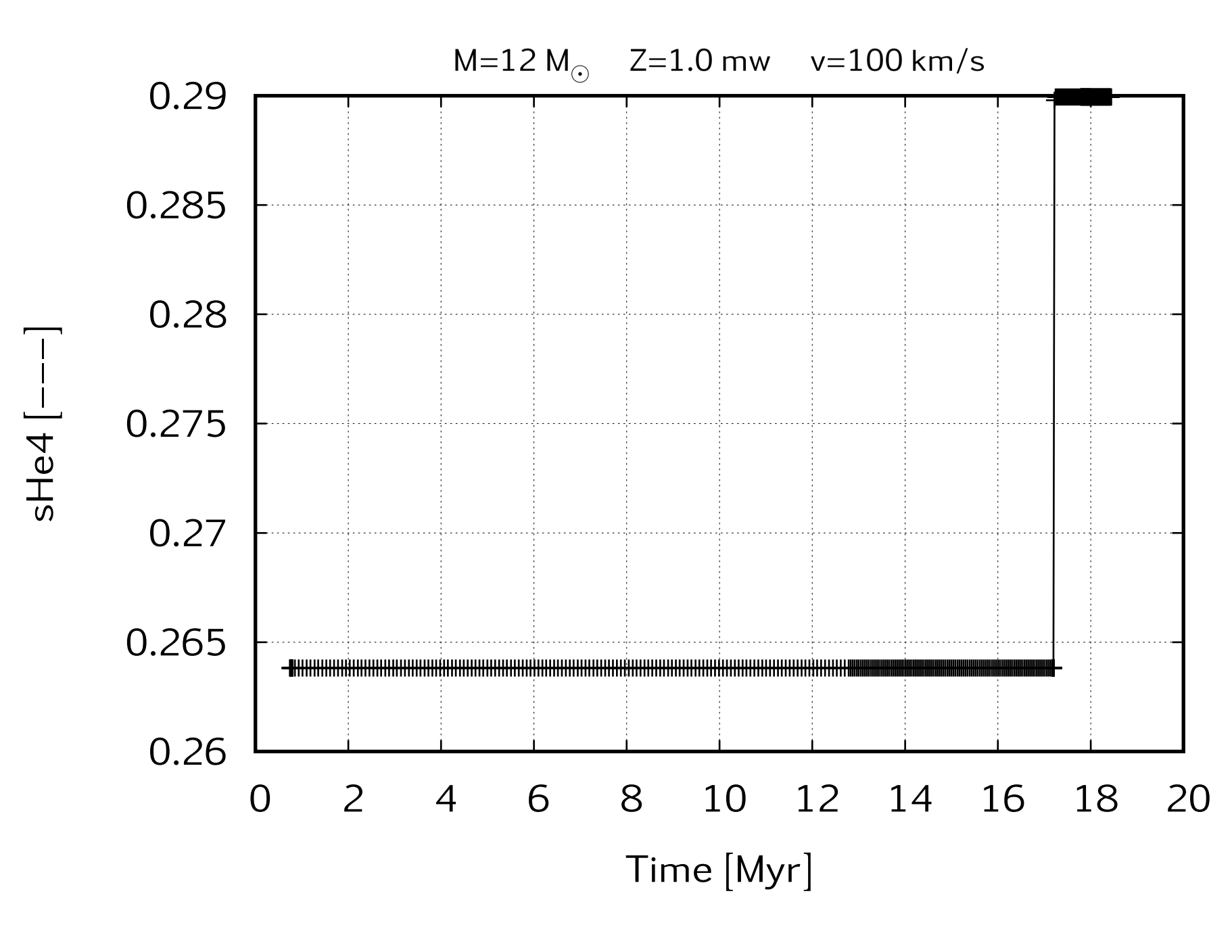

M=12 M⊙ Z=1.0 mw v=100 km/s
He−core−size [Msun]
4.18
4.17
4.16
4.15
4.14
4.13
4.12
4.11
4.1
4.09
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

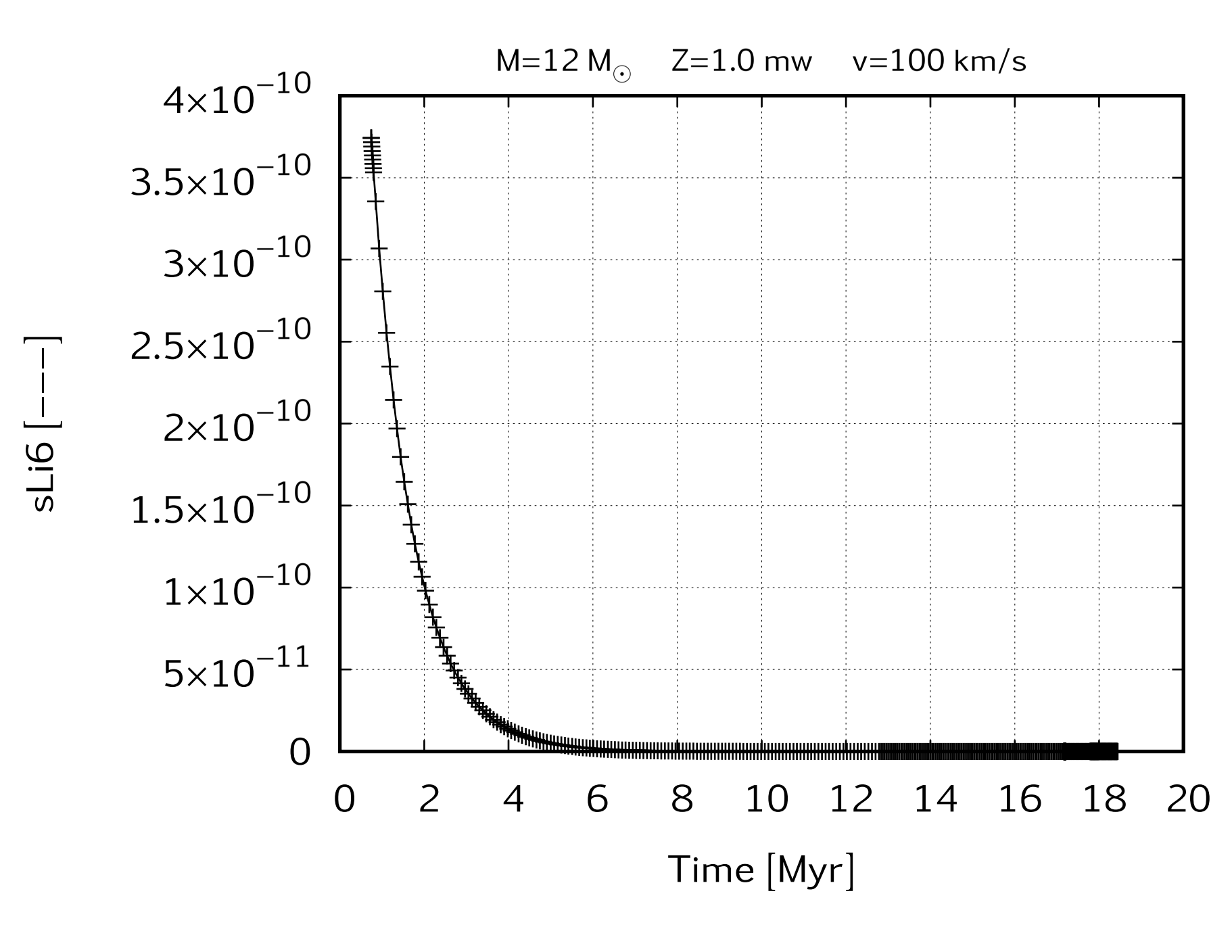

M=12 M⊙ Z=1.0 mw v=100 km/s
CO−core−size [Msun]
2.35
2.345
2.34
2.335
2.33
2.325
2.32
2.315
2.31
2.305
2.3
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

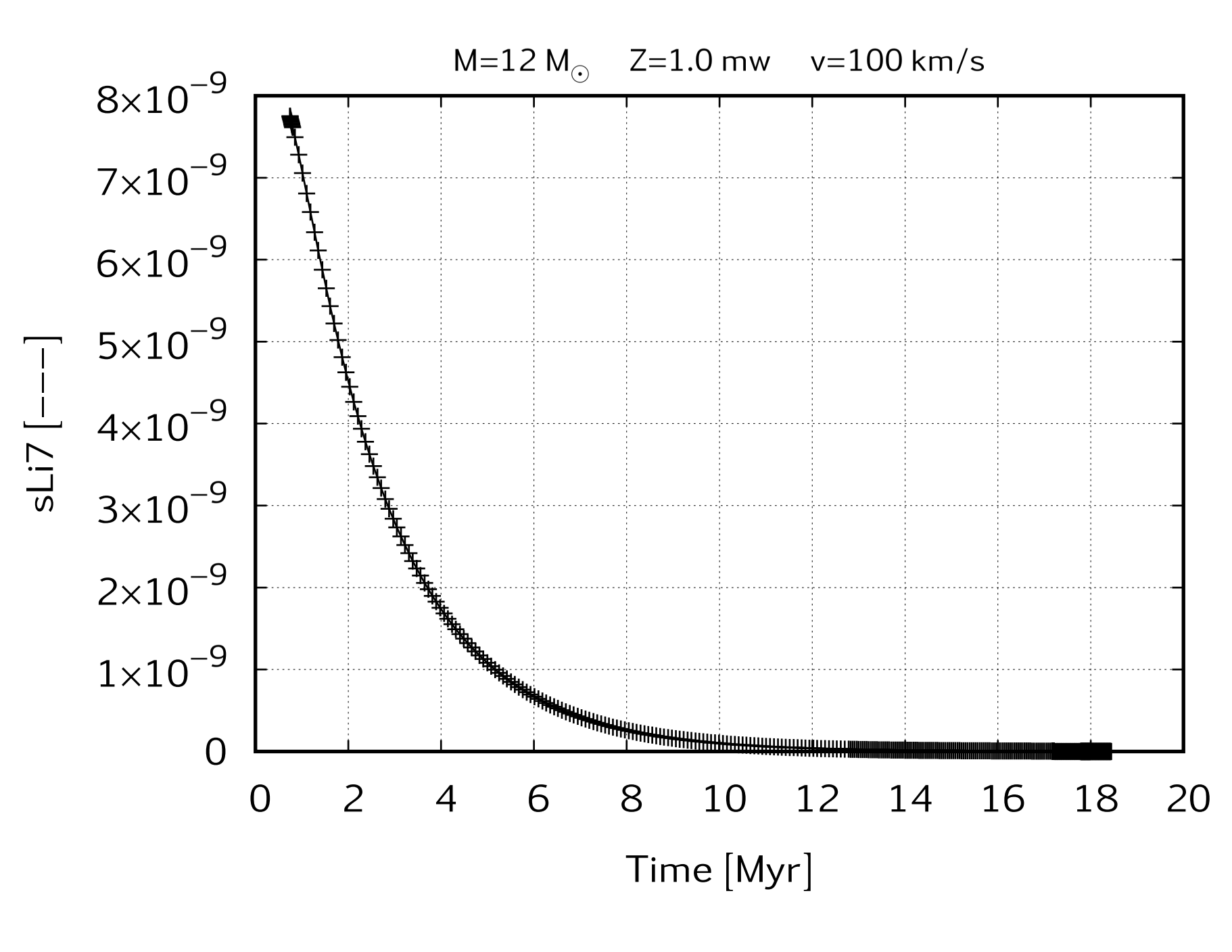

M=12 M⊙ Z=1.0 mw v=100 km/s
0.73
0.725
0.72
0.715
0.71
0.705
0.7
sH1 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

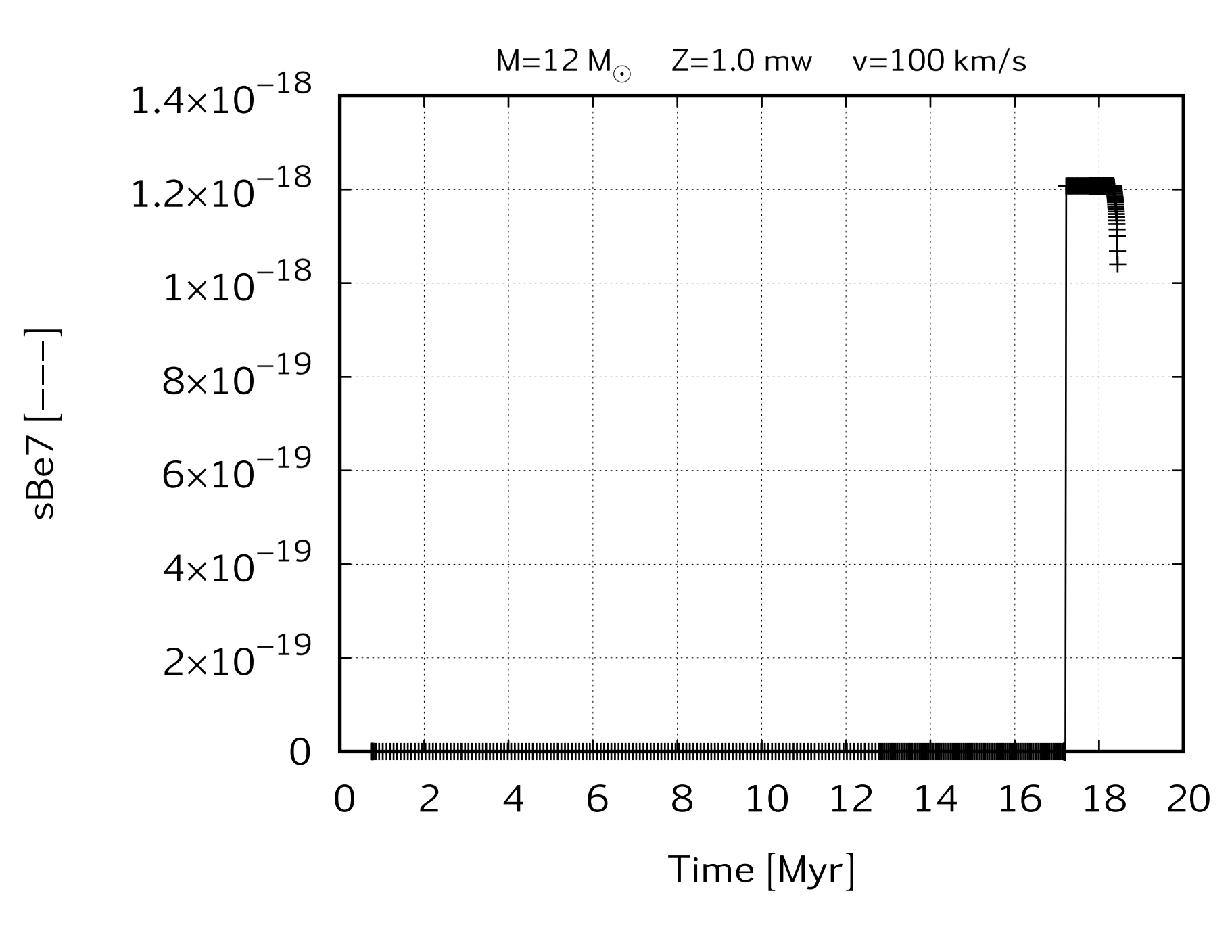

M=12 M⊙ Z=1.0 mw v=100 km/s
sH2 [---]
1.8×10−11
1.6×10−11
1.4×10−11
1.2×10−11
1×10−11
8×10−12
6×10−12
4×10−12
2×10−12
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

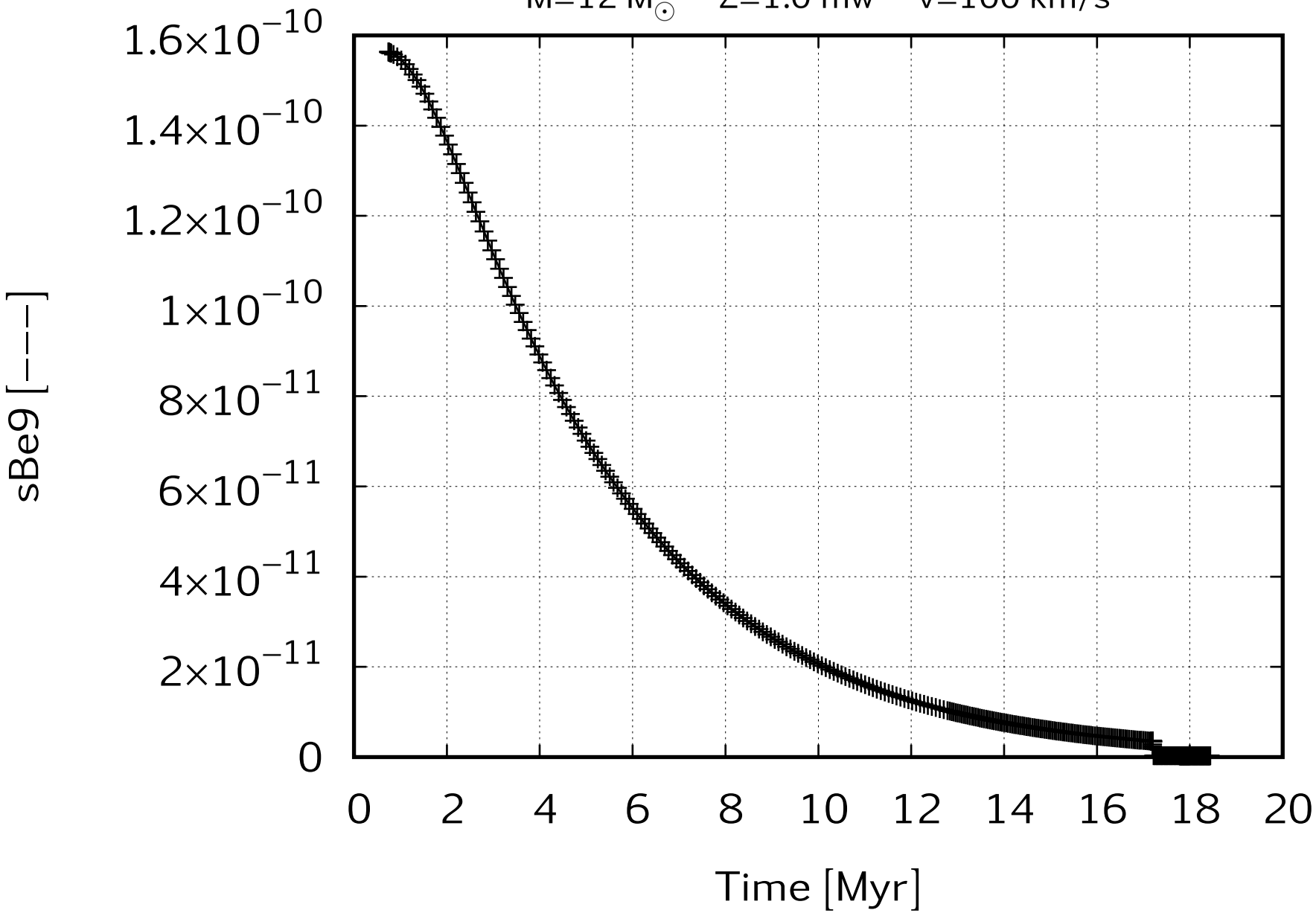

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00003
0.00003
0.00003
0.00003
0.00003
0.00002
0.00002
0.00002
sHe3 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

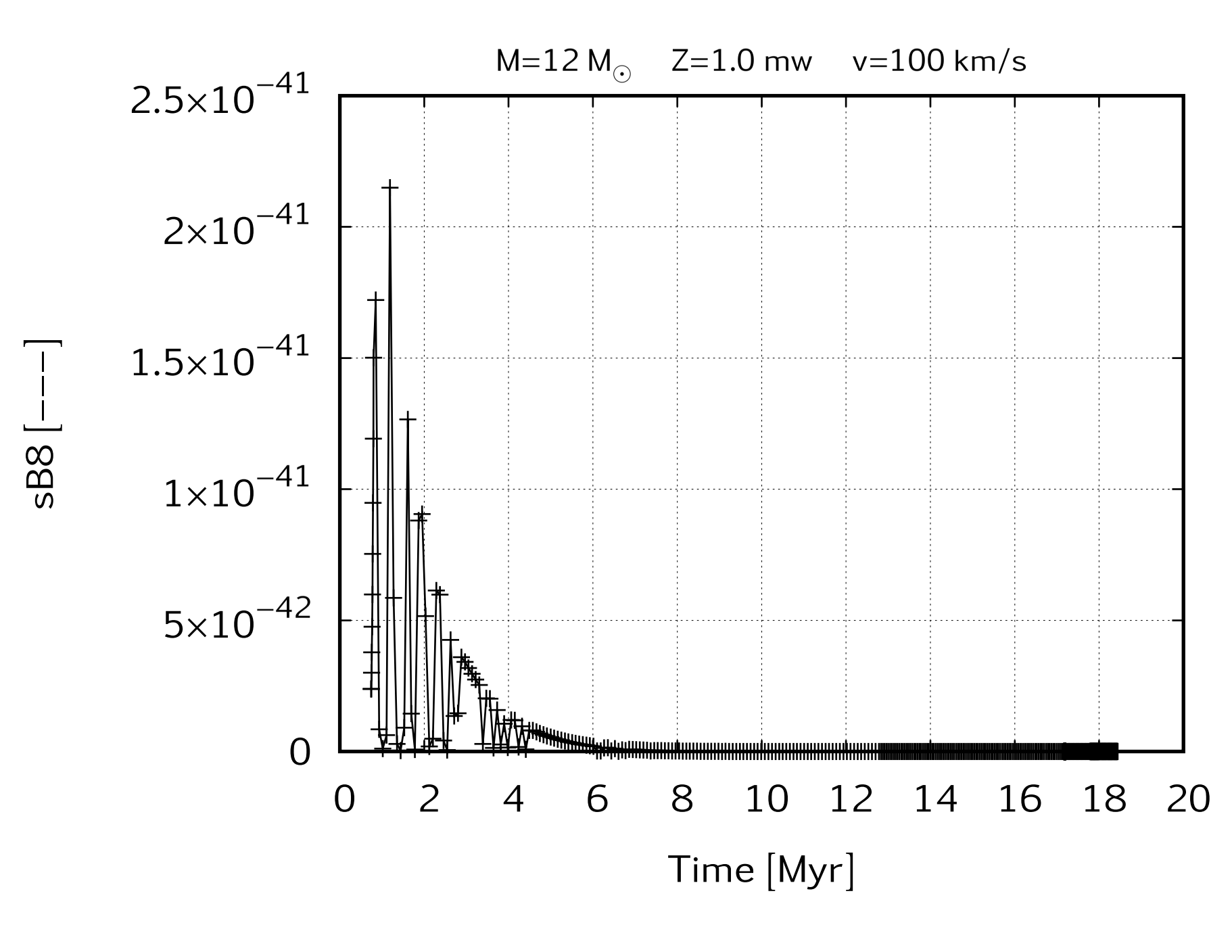

M=12 M⊙ Z=1.0 mw v=100 km/s
0.29
0.285
0.28
0.275
0.27
0.265
0.26
sHe4 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

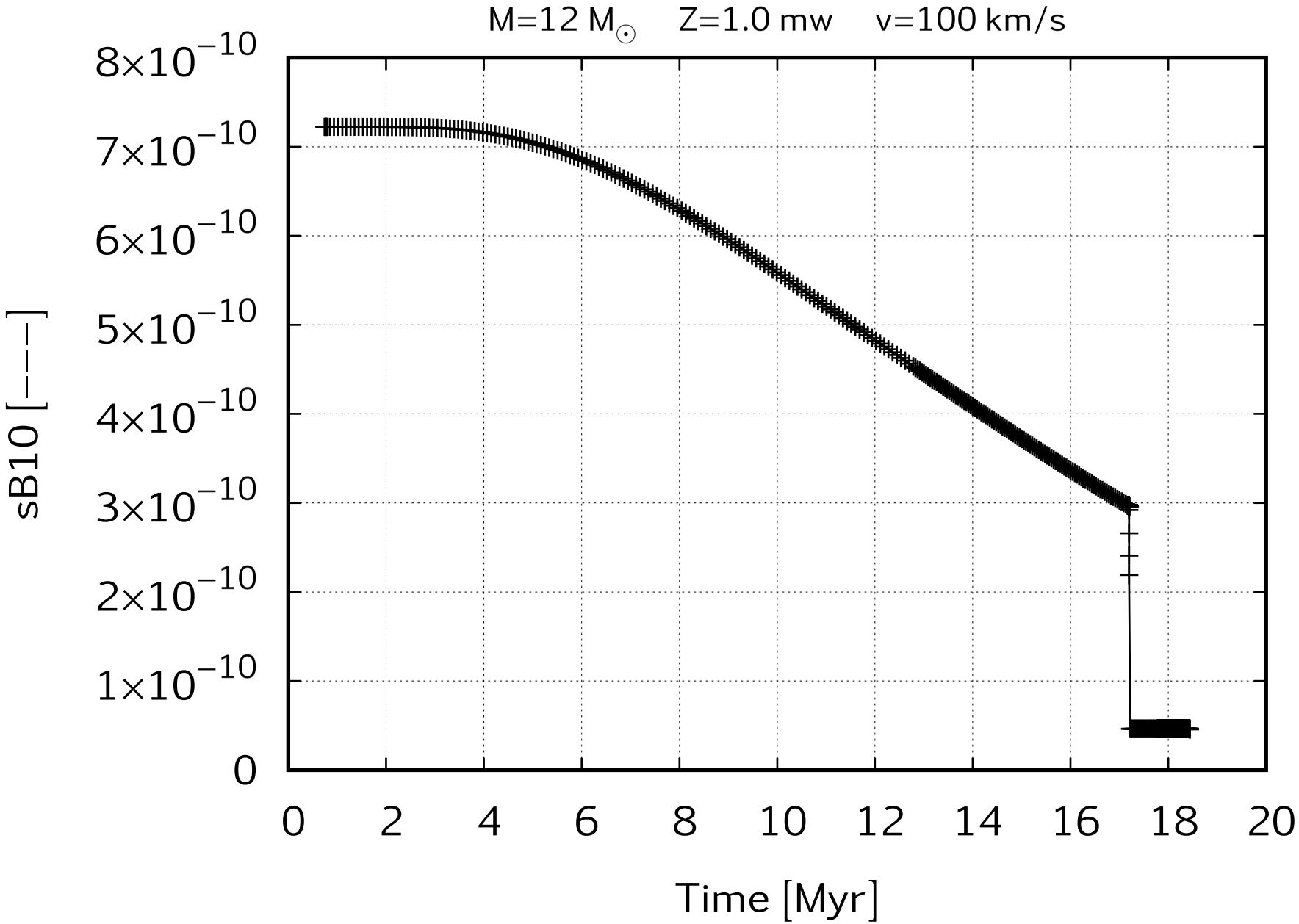

M=12 M⊙ Z=1.0 mw v=100 km/s
sLi6 [---]
4×10−10
3.5×10−10
3×10−10
2.5×10−10
2×10−10
1.5×10−10
1×10−10
5×10−11
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

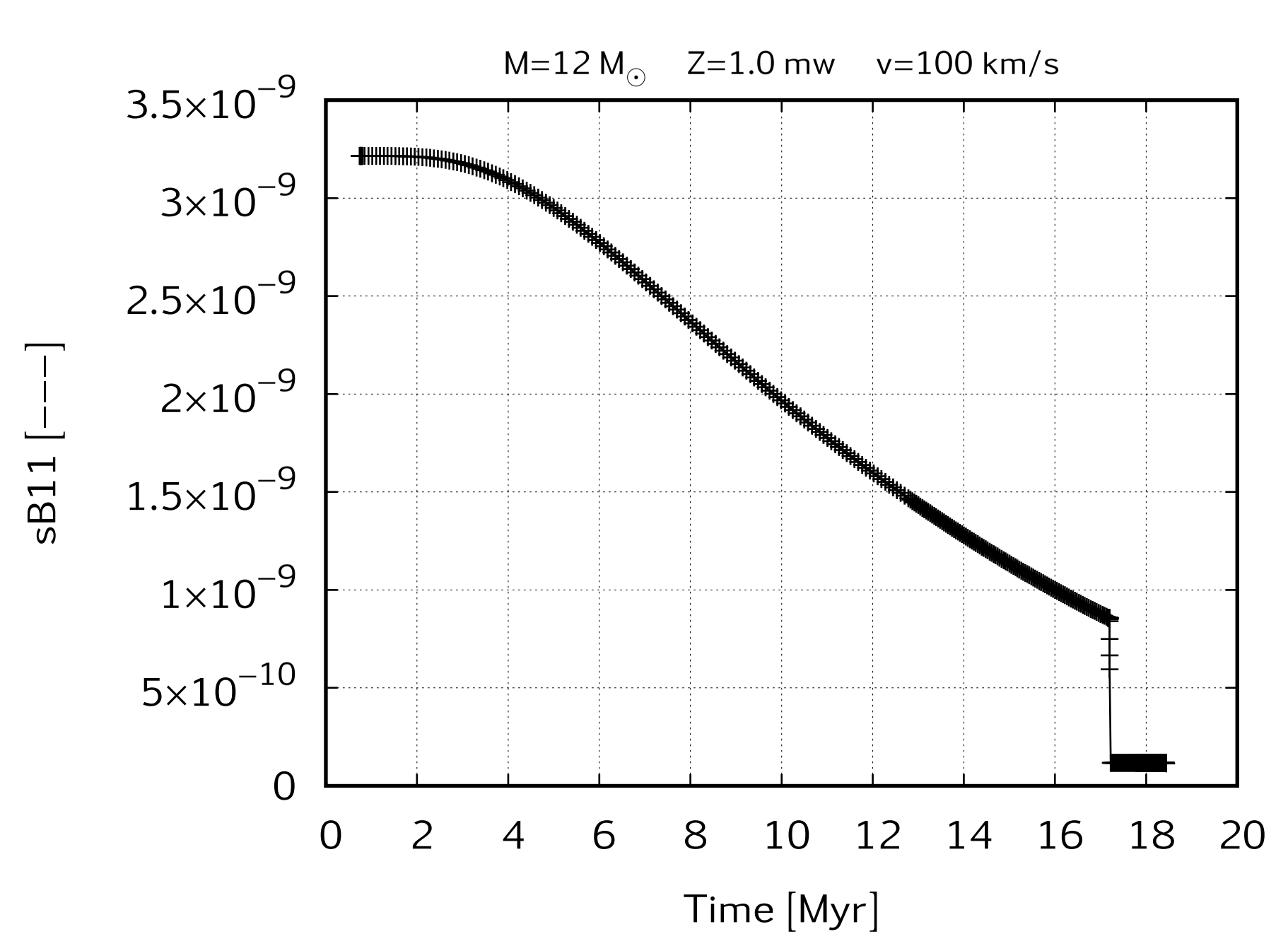

M=12 M⊙ Z=1.0 mw v=100 km/s
sLi7 [---]
8×10−9
7×10−9
6×10−9
5×10−9
4×10−9
3×10−9
2×10−9
1×10−9
0
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

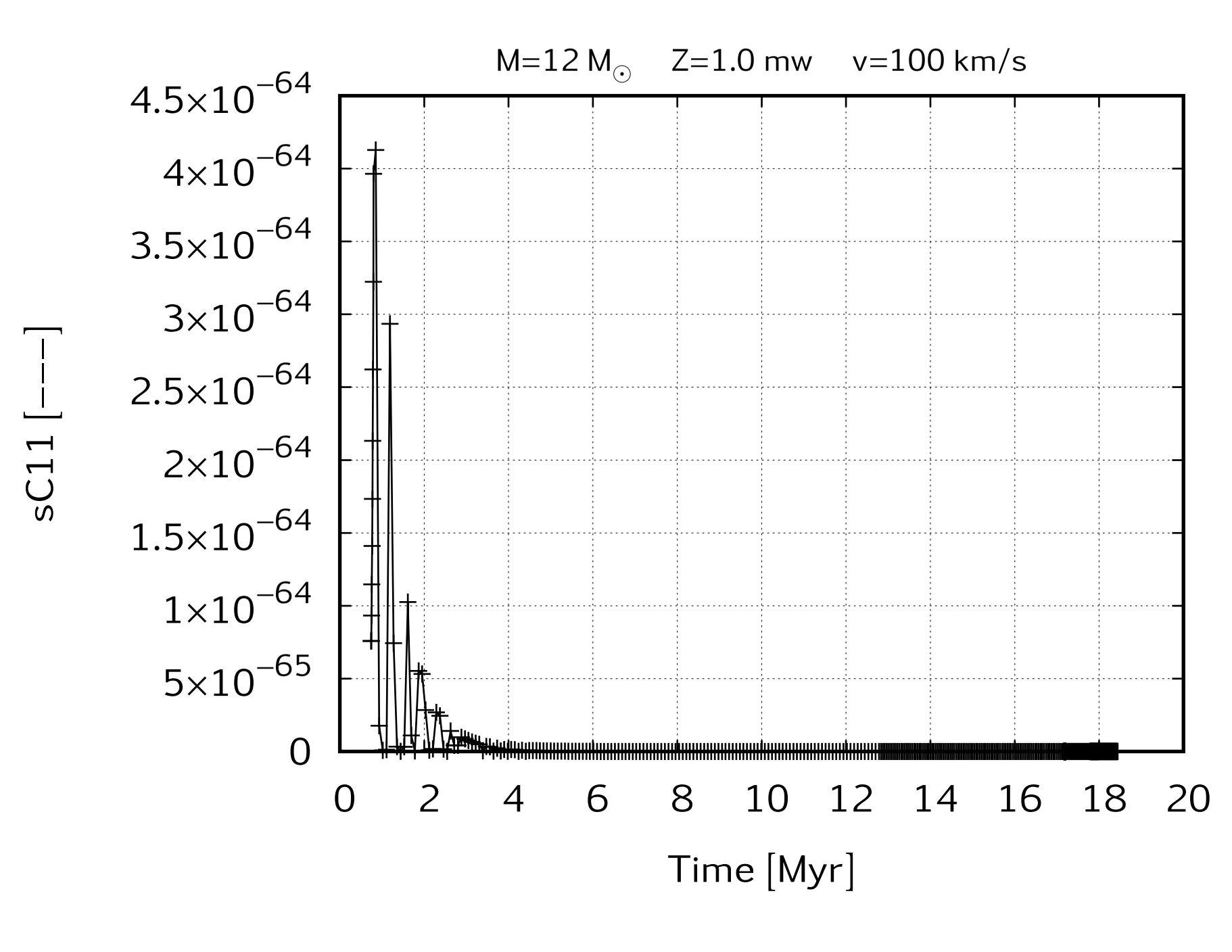

M=12 M⊙ Z=1.0 mw v=100 km/s
1.4×10−18
1.2×10−18
1×10−18
8×10−19
6×10−19
4×10−19
2×10−19
0
sBe7 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

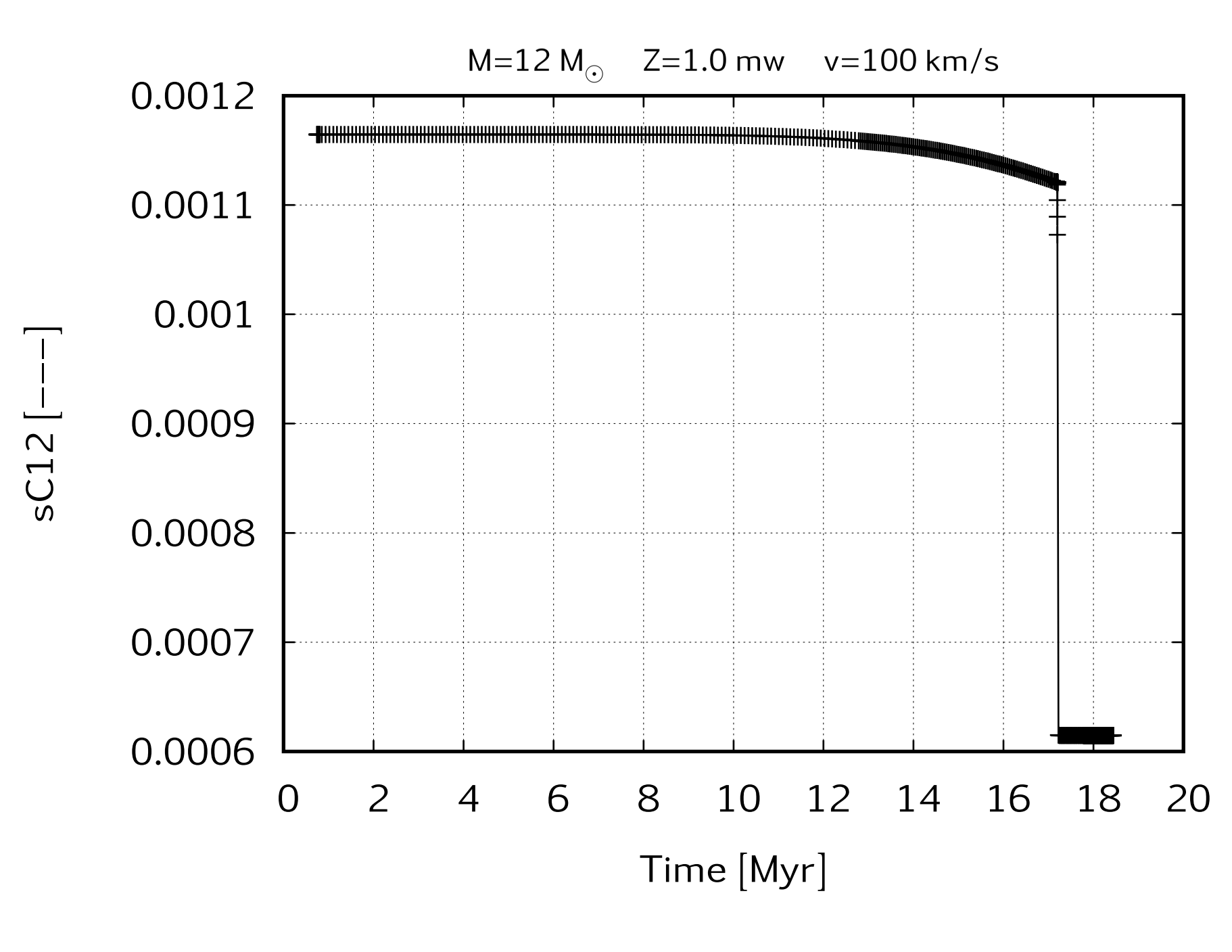

M=12 M⊙ Z=1.0 mw v=100 km/s
sBe9 [---]
1.6×10−10
1.4×10−10
1.2×10−10
1×10−10
8×10−11
6×10−11
4×10−11
2×10−11
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

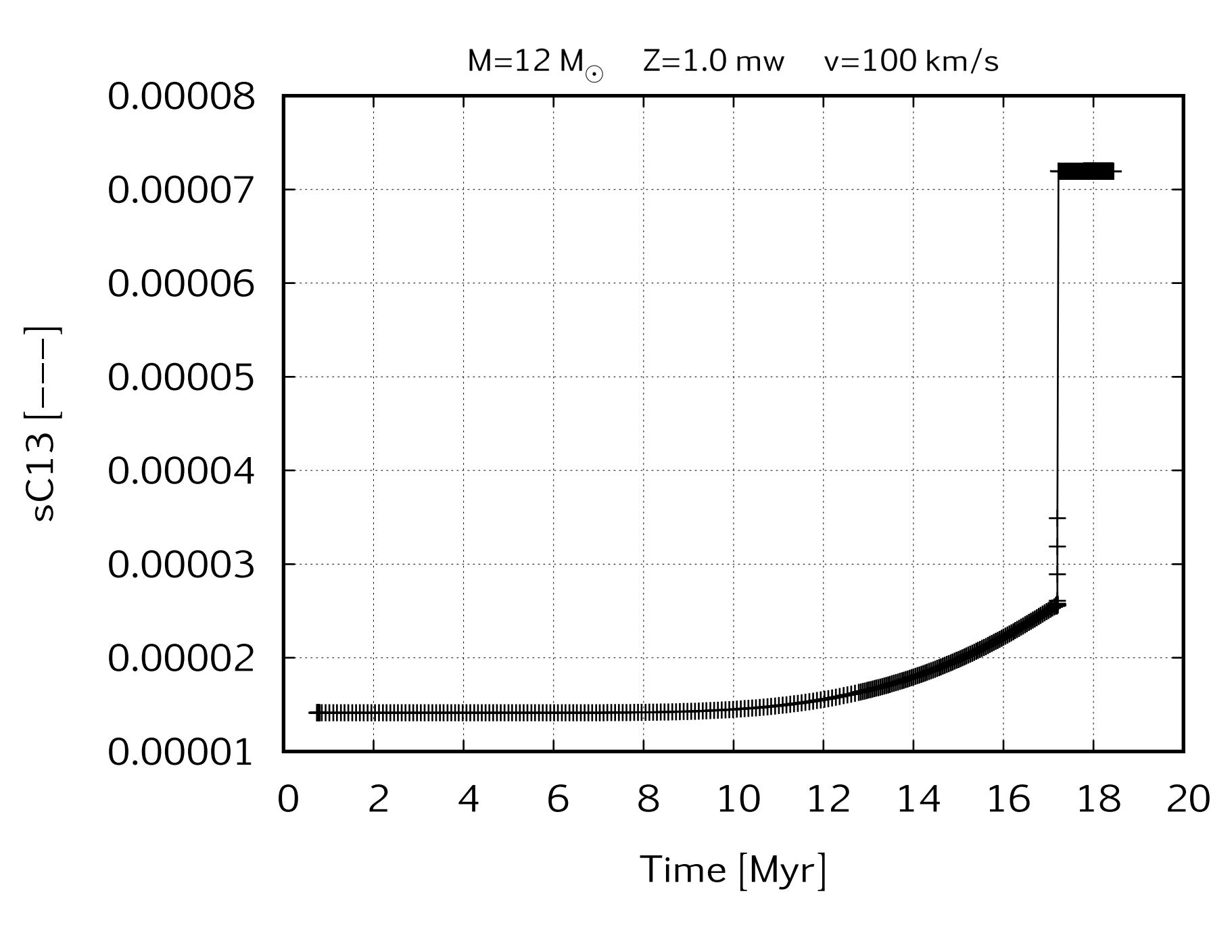

M=12 M⊙ Z=1.0 mw v=100 km/s
2.5×10−41
2×10−41
1.5×10−41
1×10−41
5×10−42
0
sB8 [—]
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

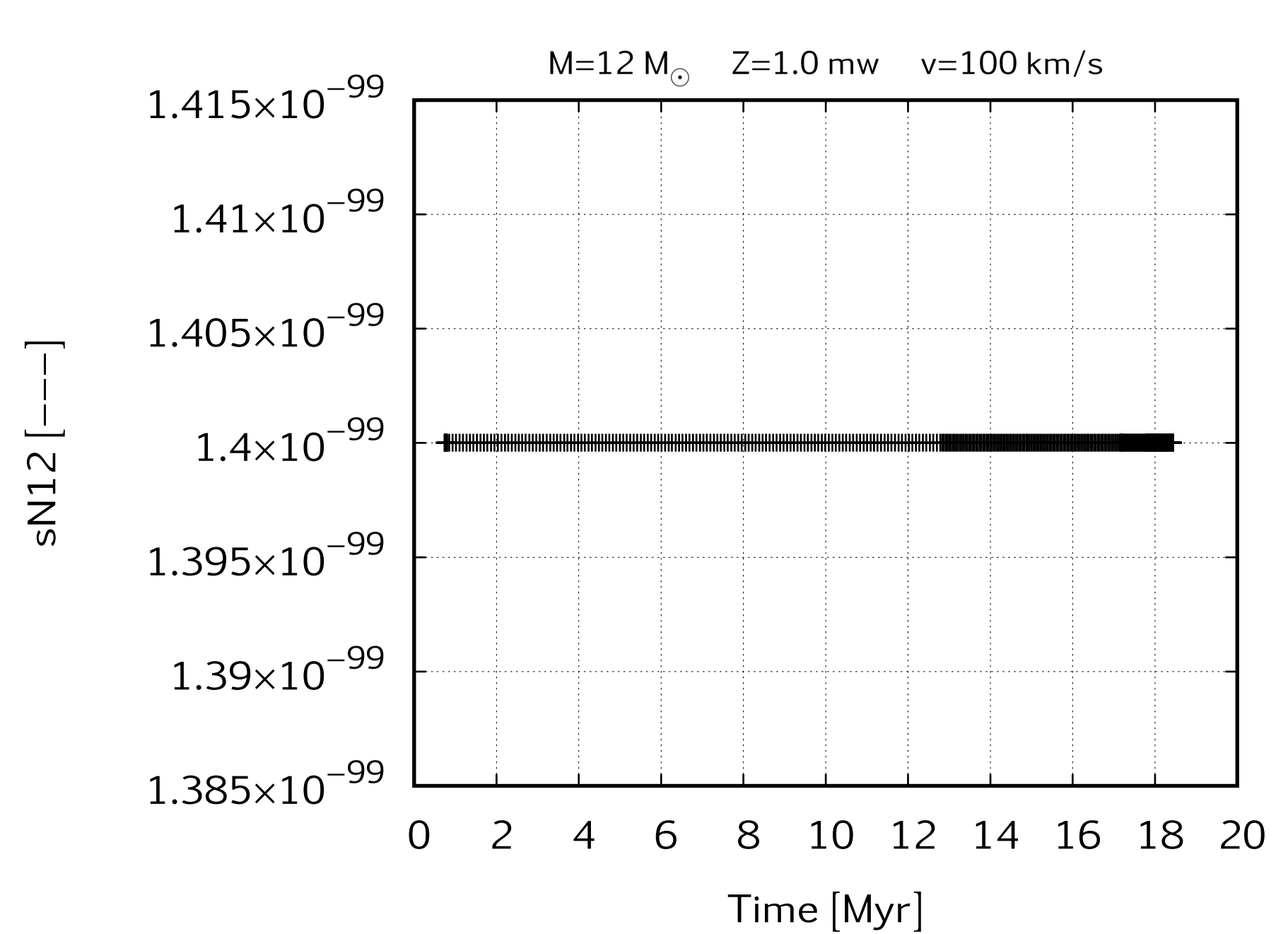

M=12 M⊙ Z=1.0 mw v=100 km/s
sB10 [---]
8×10−10
7×10−10
6×10−10
5×10−10
4×10−10
3×10−10
2×10−10
1×10−10
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

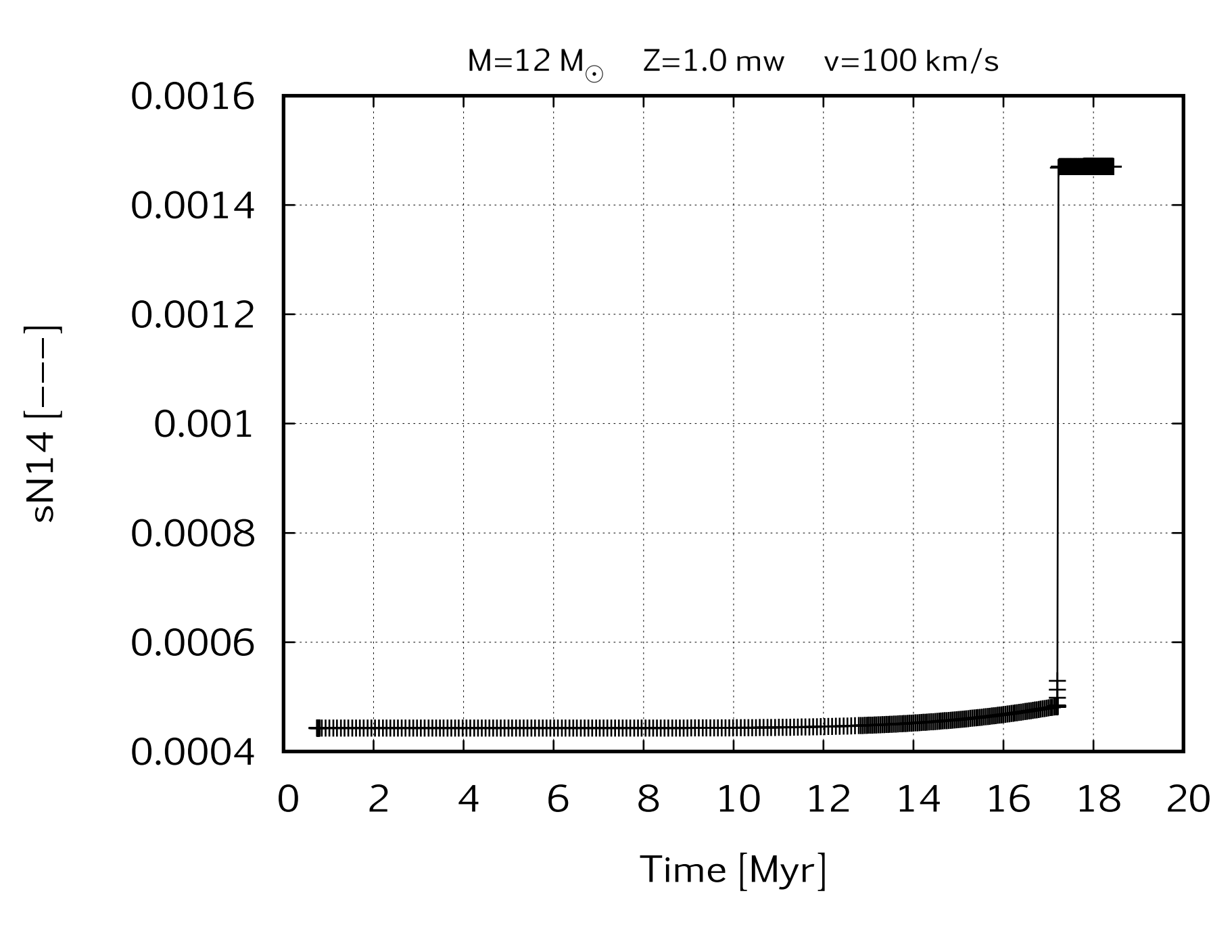

M=12 M⊙ Z=1.0 mw v=100 km/s
sB11 [---]
3.5×10−9
3×10−9
2.5×10−9
2×10−9
1.5×10−9
1×10−9
5×10−10
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

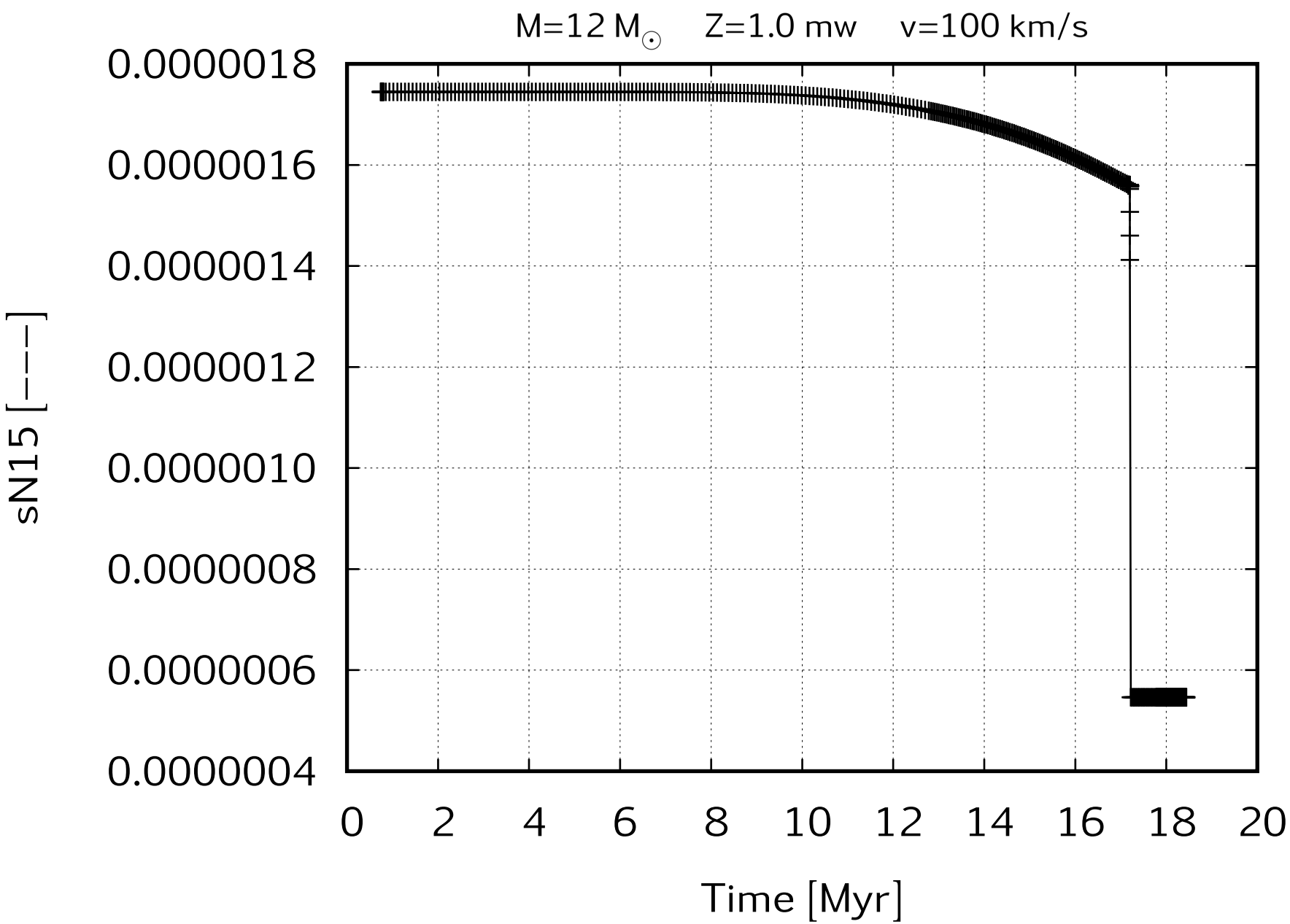

M=12 M⊙ Z=1.0 mw v=100 km/s
sC11 [---]
4.5×10−64
4×10−64
3.5×10−64
3×10−64
2.5×10−64
2×10−64
1.5×10−64
1×10−64
5×10−65
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

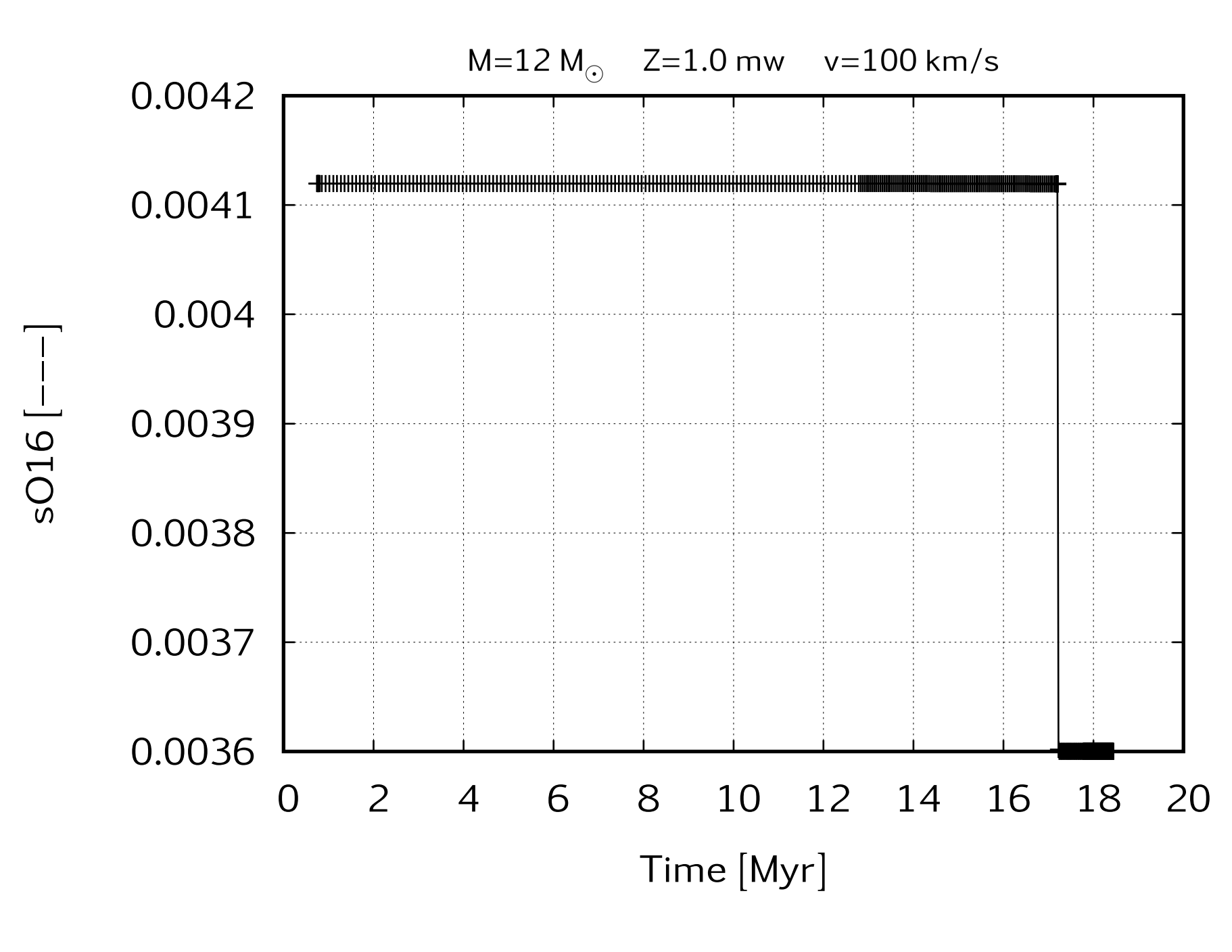

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
sC12 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

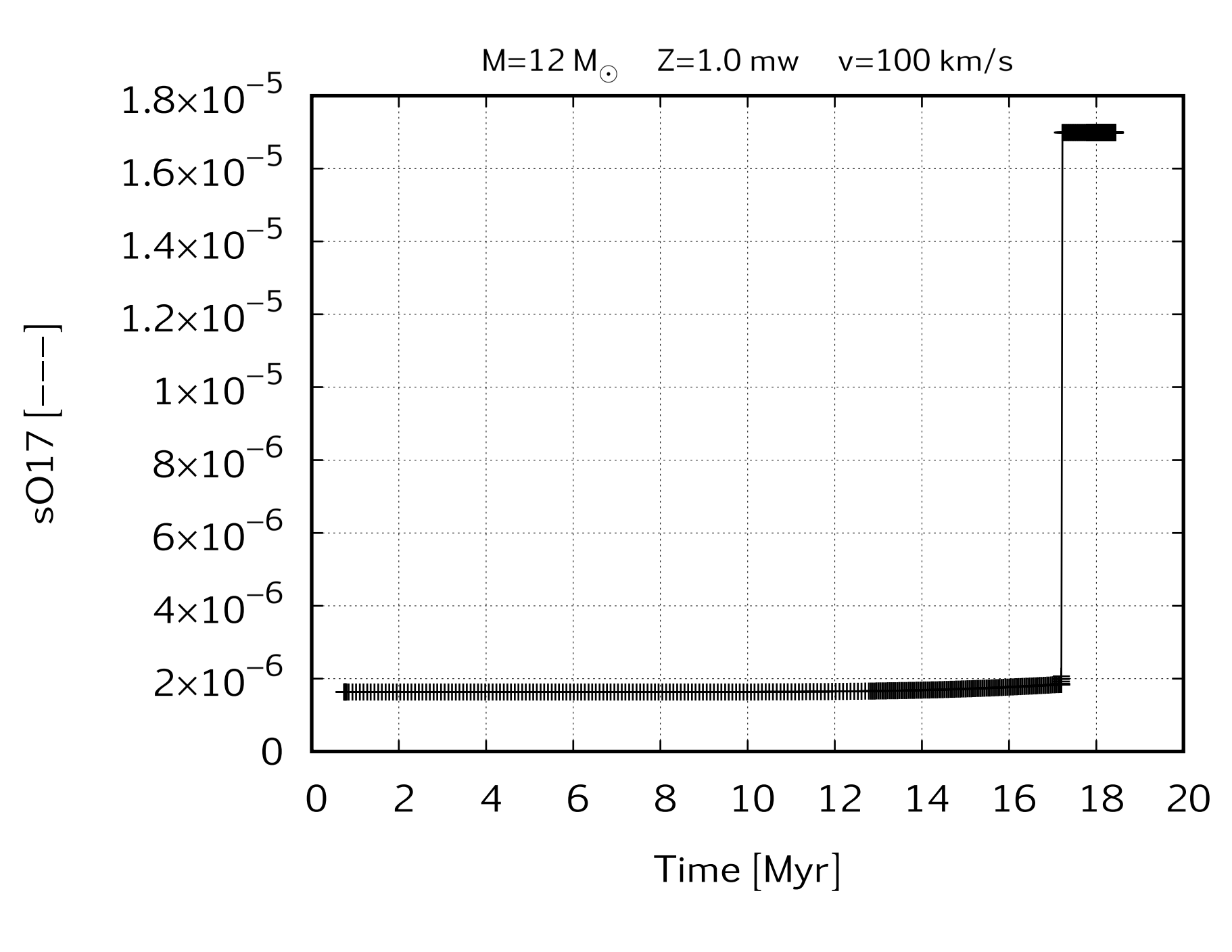

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00008
0.00007
0.00006
0.00005
0.00004
0.00003
0.00002
0.00001
sC13 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

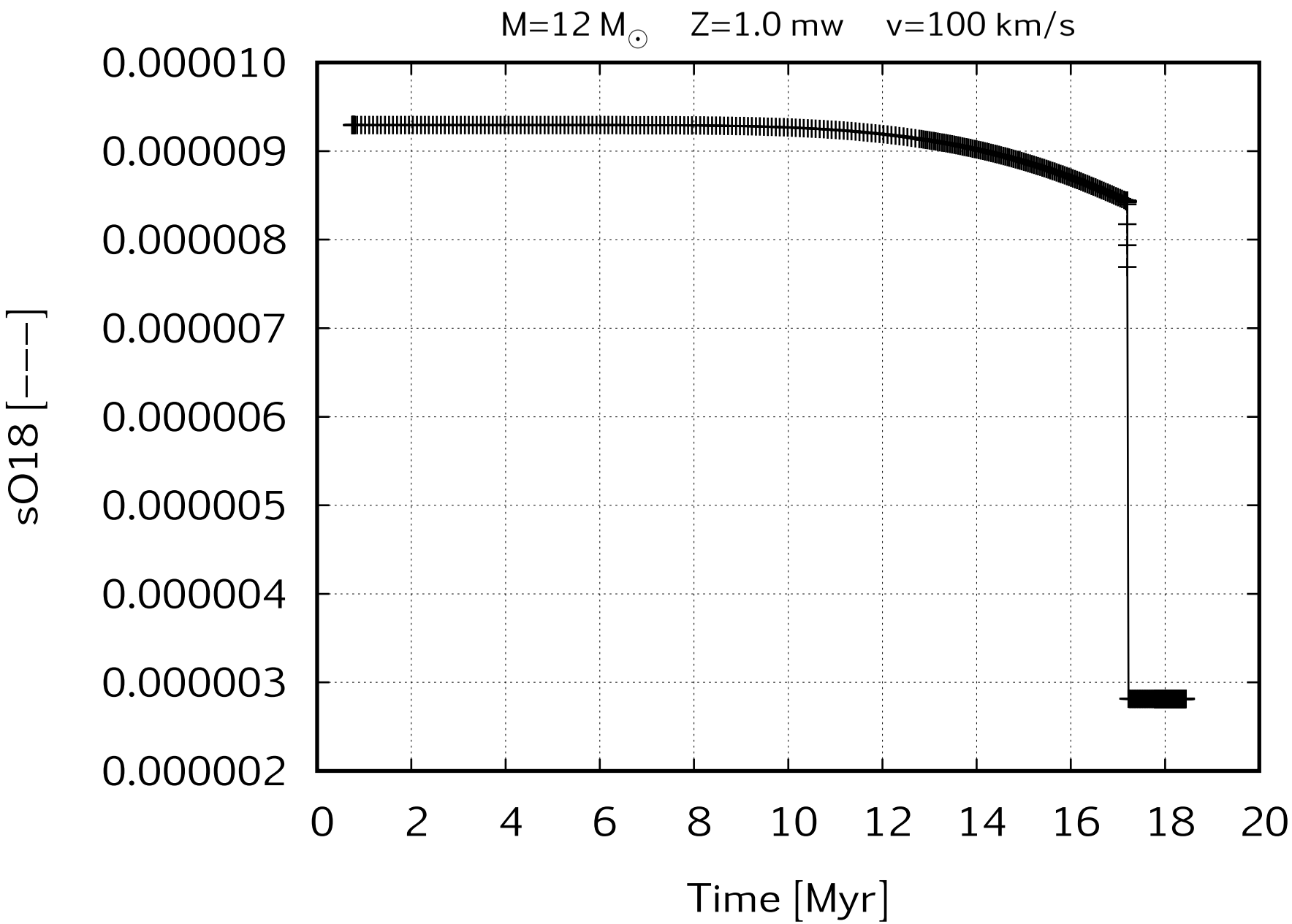

M=12 M⊙ Z=1.0 mw v=100 km/s
1.415×10−99
1.41×10−99
1.405×10−99
1.4×10−99
1.395×10−99
1.39×10−99
1.385×10−99
sN12 [———]
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

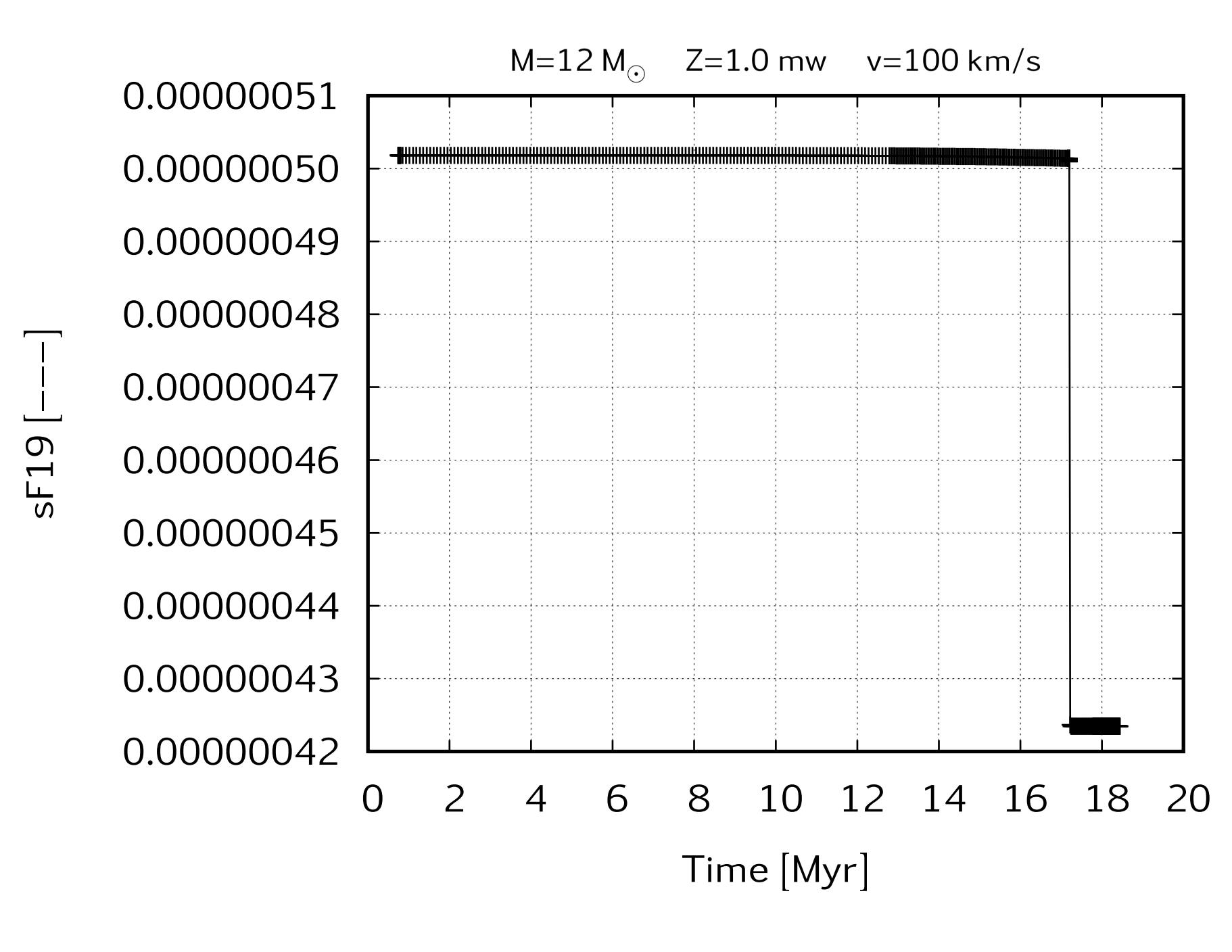

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
sN14 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

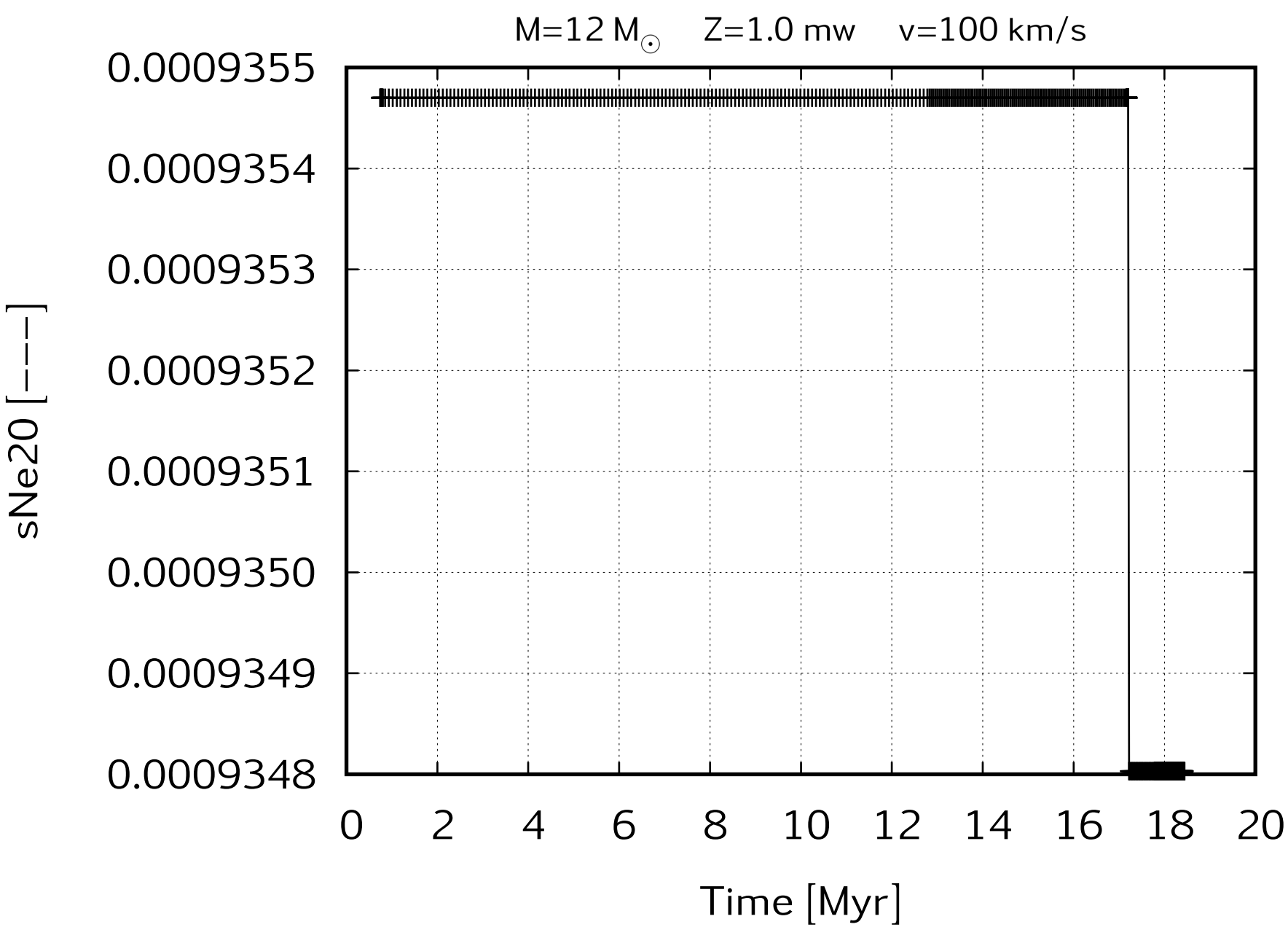

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0000018
0.0000016
0.0000014
0.0000012
0.0000010
0.0000008
0.0000006
0.0000004
sN15 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

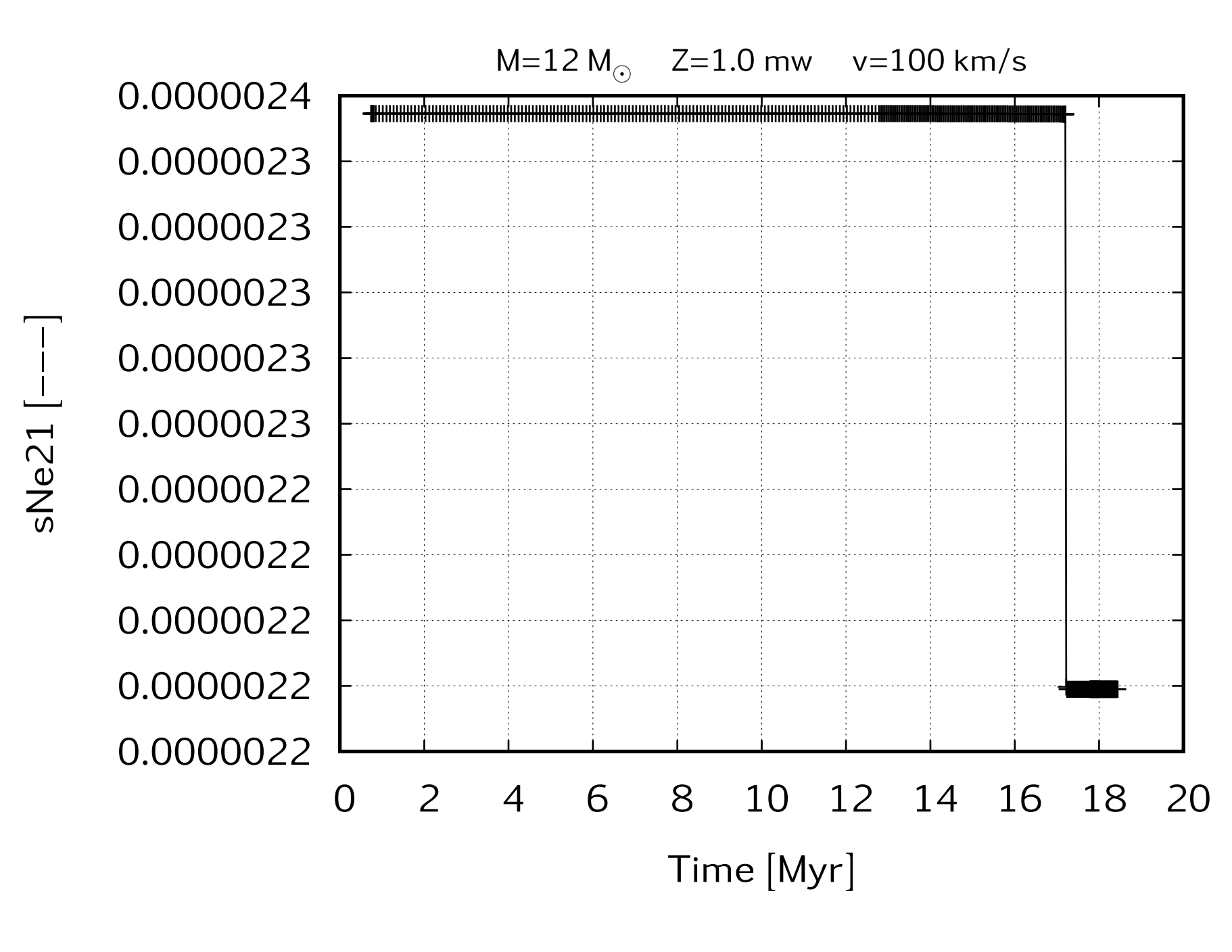

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
sO16 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

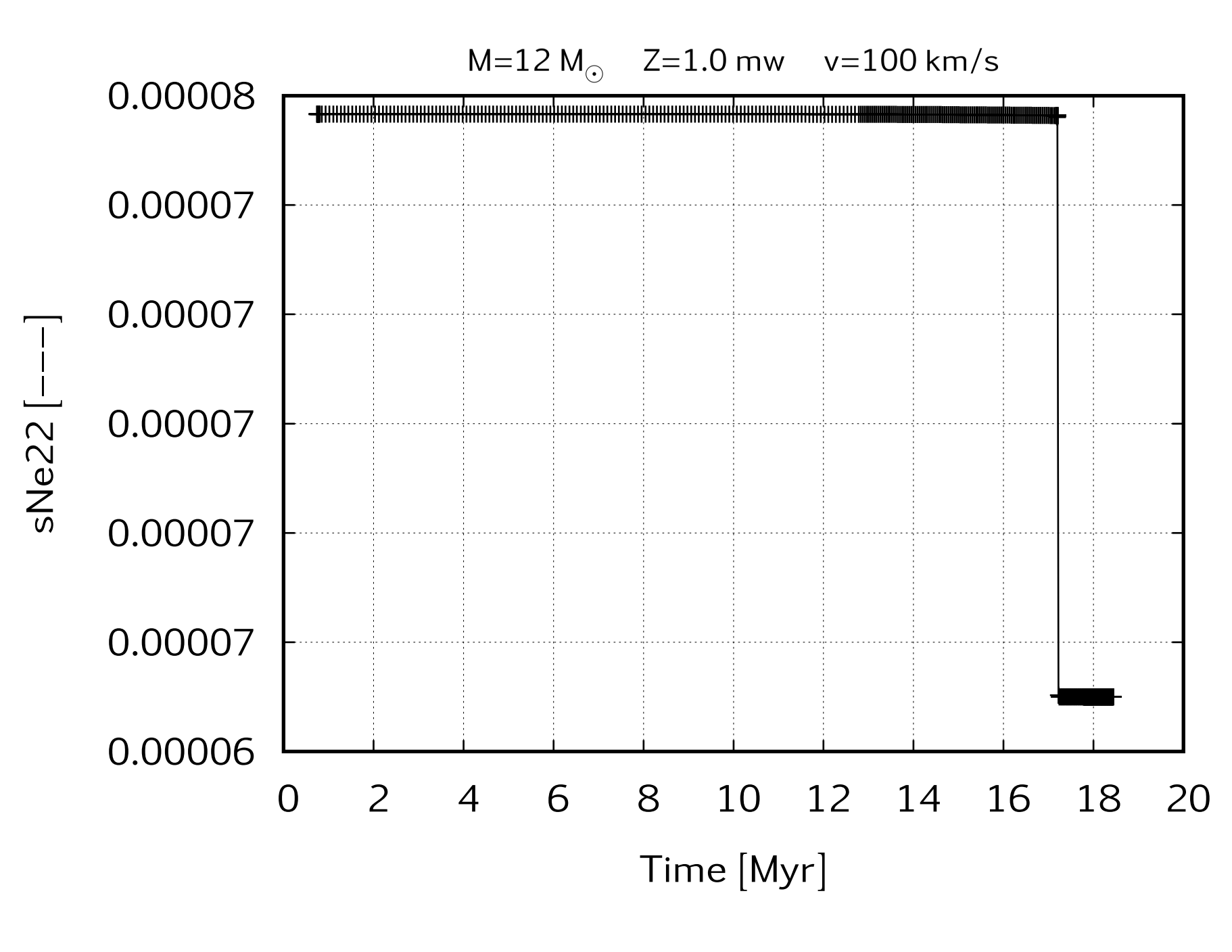

M=12 M⊙ Z=1.0 mw v=100 km/s
sO17 [---]
1.8×10−5
1.6×10−5
1.4×10−5
1.2×10−5
1×10−5
8×10−6
6×10−6
4×10−6
2×10−6
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

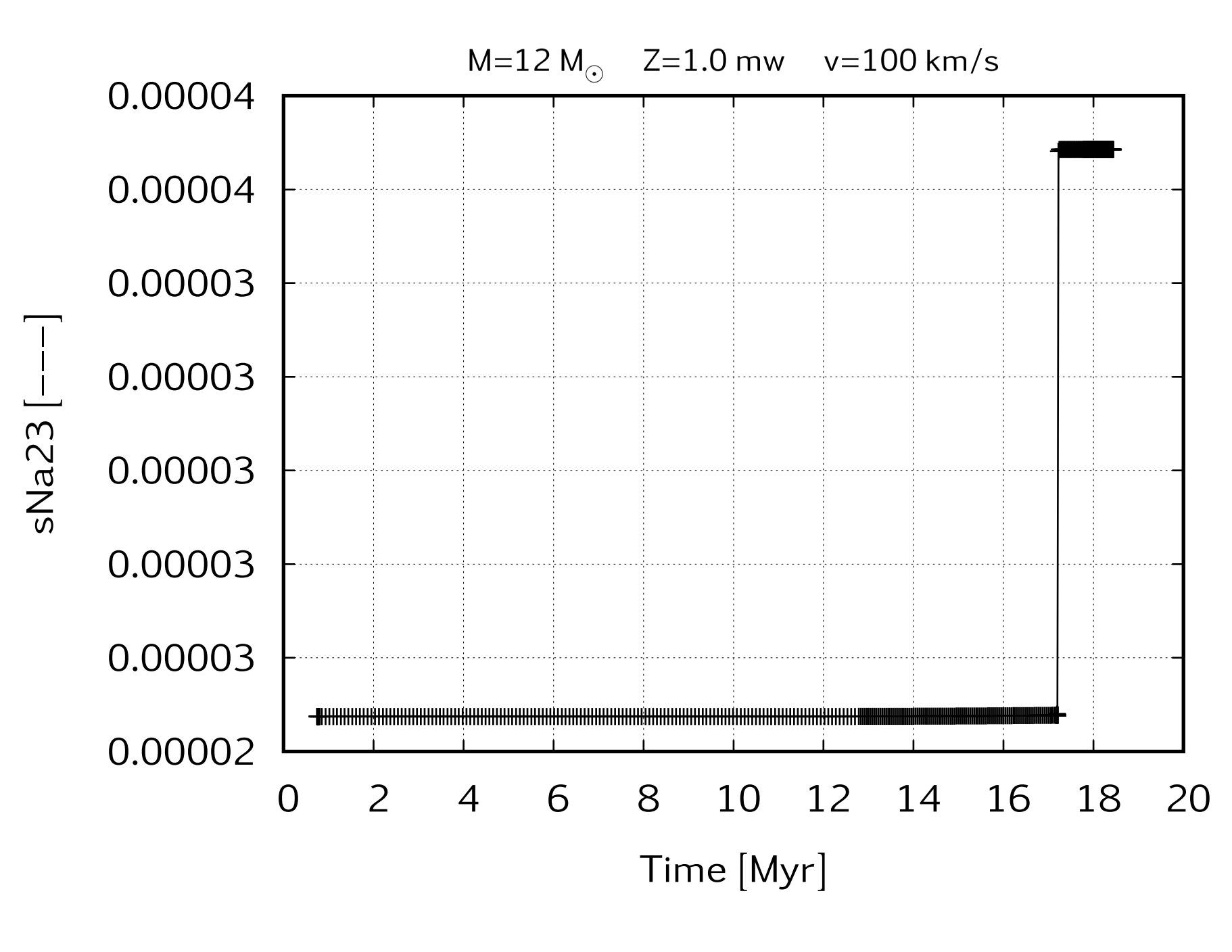

M=12 M⊙ Z=1.0 mw v=100 km/s
0.000010
0.000009
0.000008
0.000007
0.000006
0.000005
0.000004
0.000003
0.000002
sO18 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

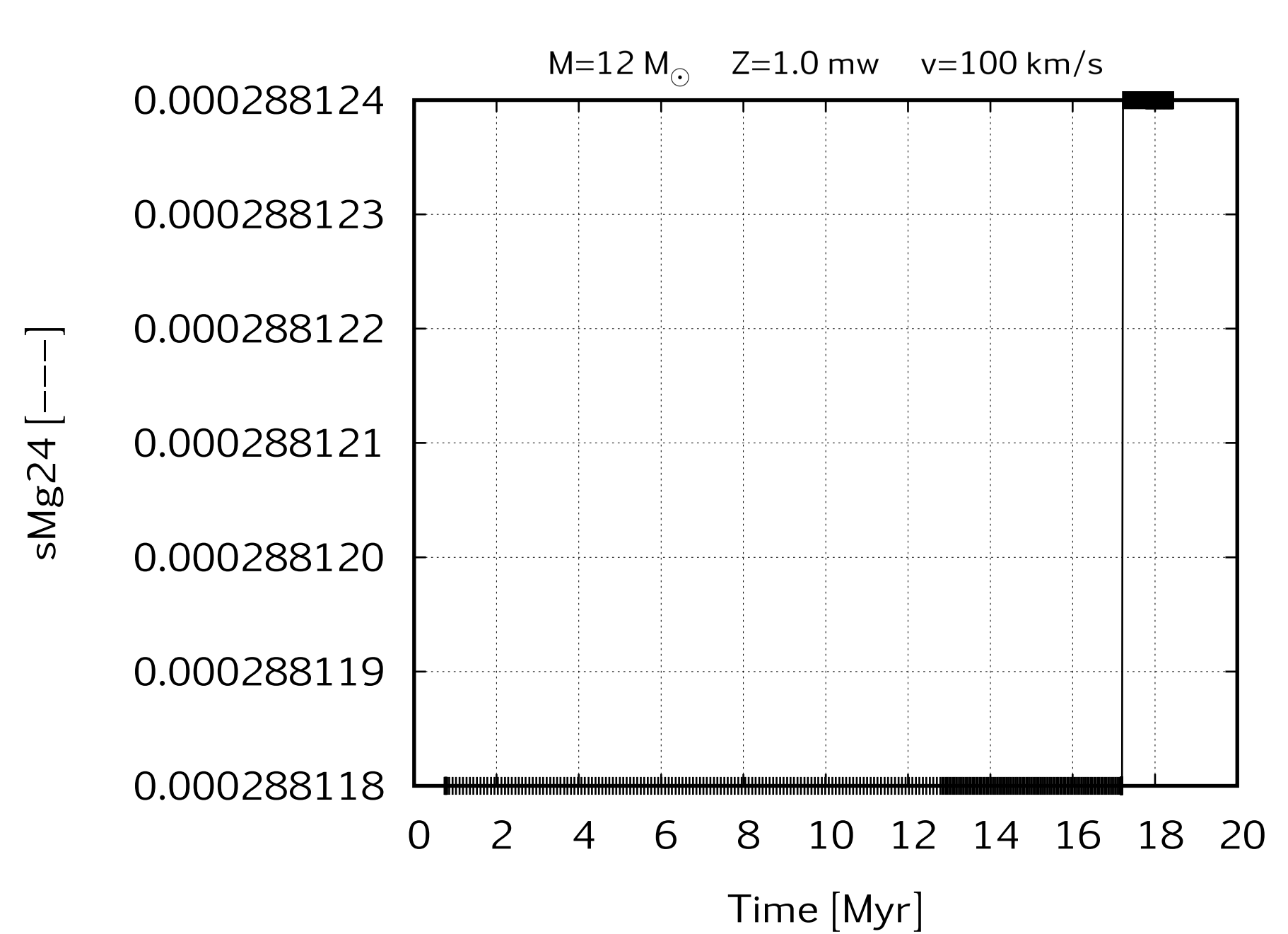

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00000051
0.00000050
0.00000049
0.00000048
0.00000047
0.00000046
0.00000045
0.00000044
0.00000043
0.00000042
sF19 [———]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

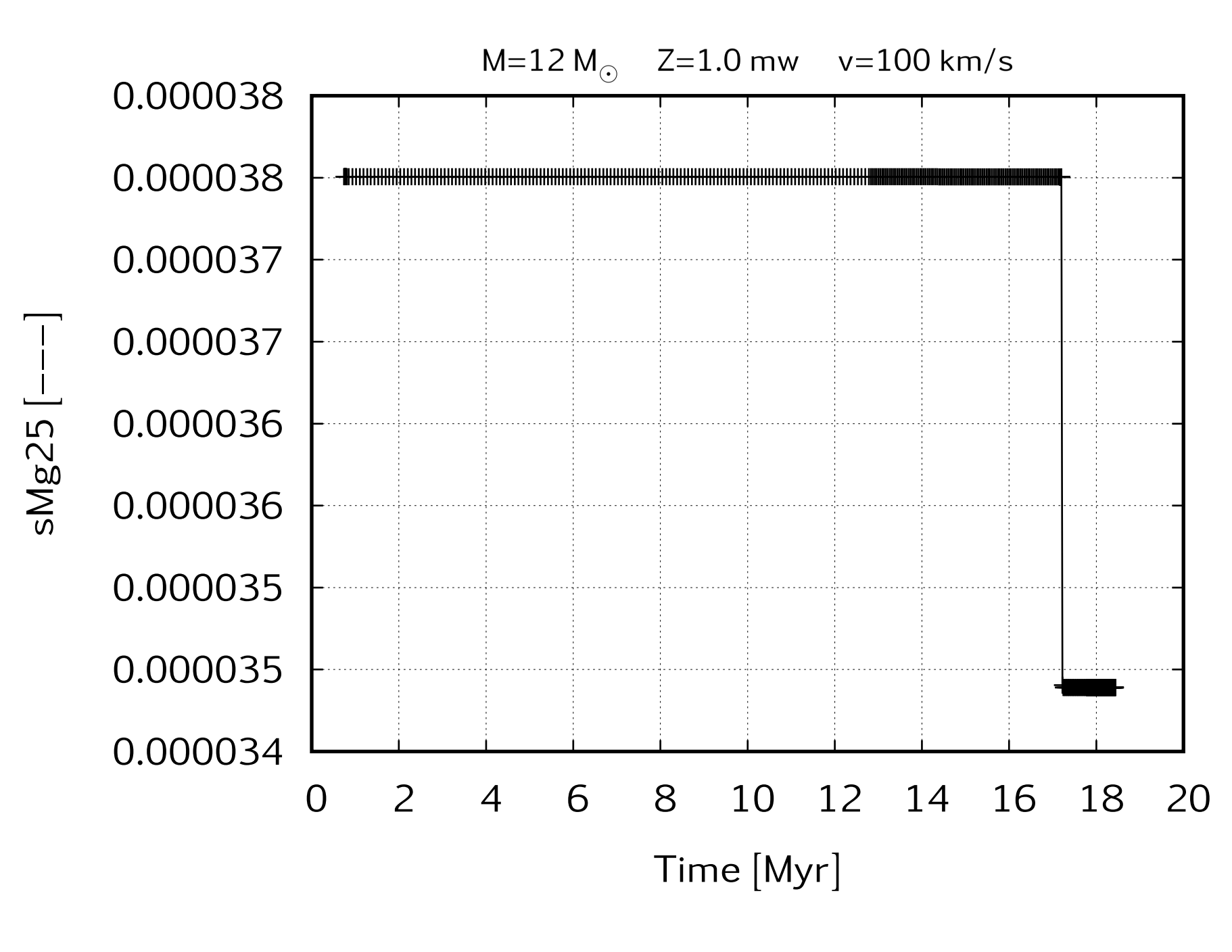

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0009355
0.0009354
0.0009353
0.0009352
0.0009351
0.0009350
0.0009349
0.0009348
sNe20 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

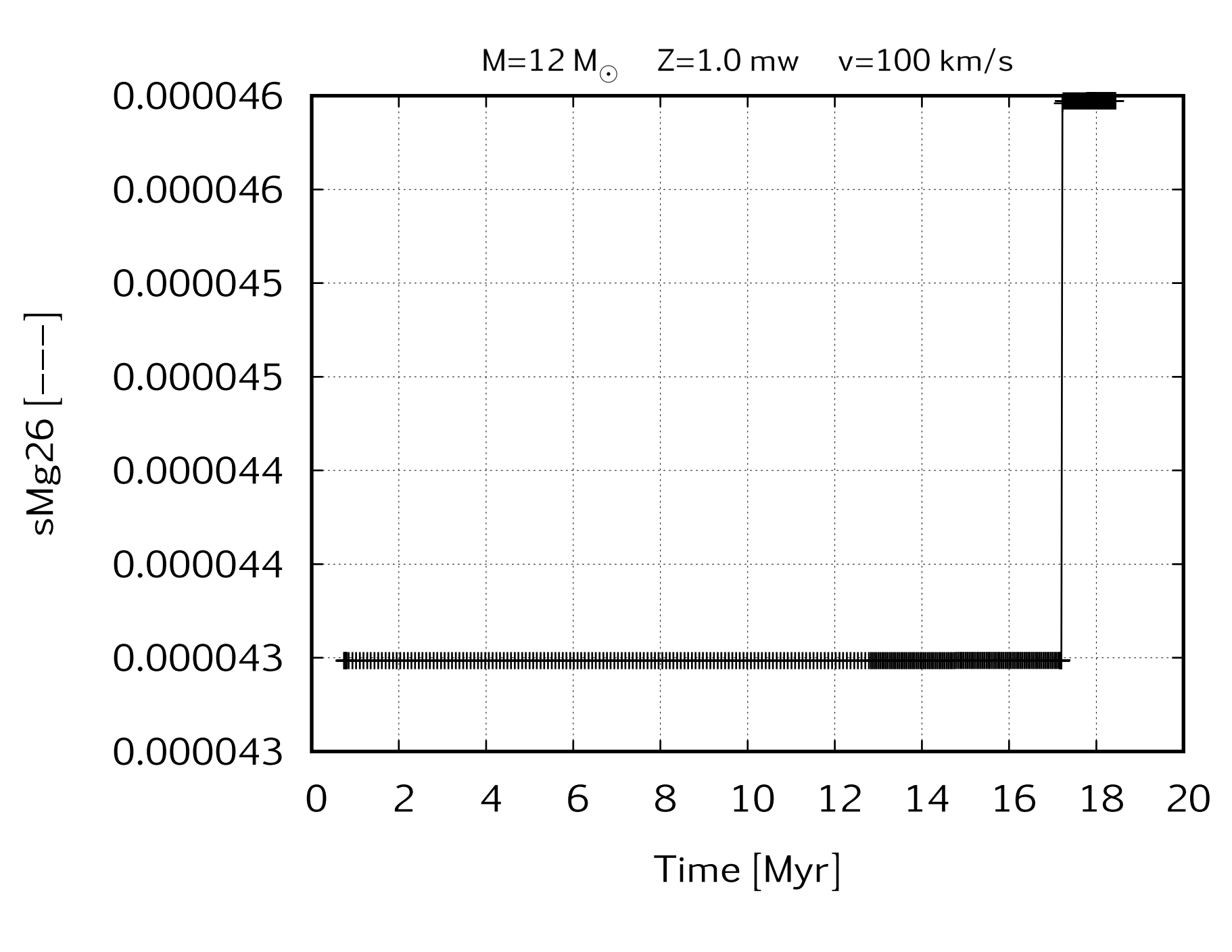

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0000024
0.0000023
0.0000023
0.0000023
0.0000023
0.0000023
0.0000022
0.0000022
0.0000022
0.0000022
0.0000022
sNe21 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

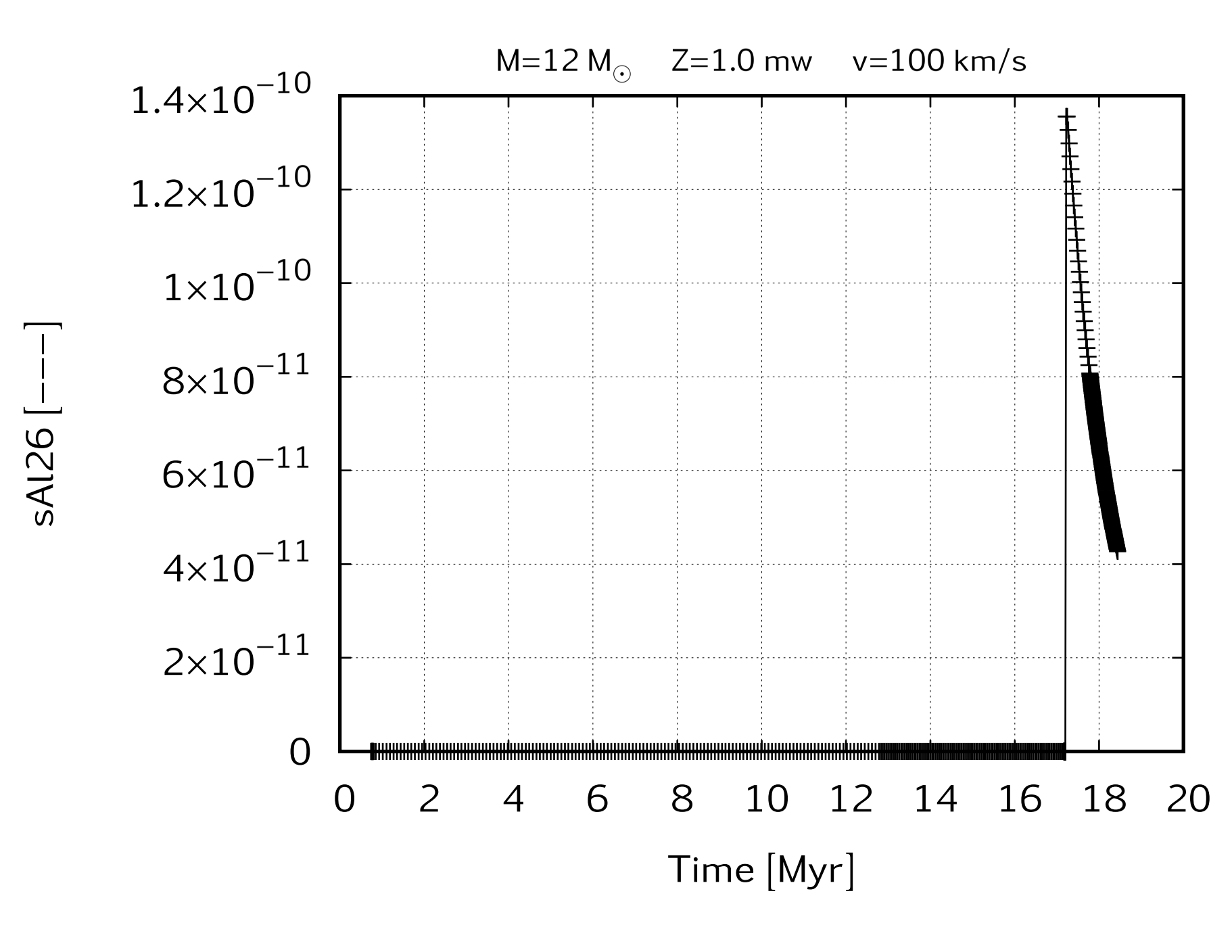

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00008
0.00007
0.00007
0.00007
0.00007
0.00007
0.00006
sNe22 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

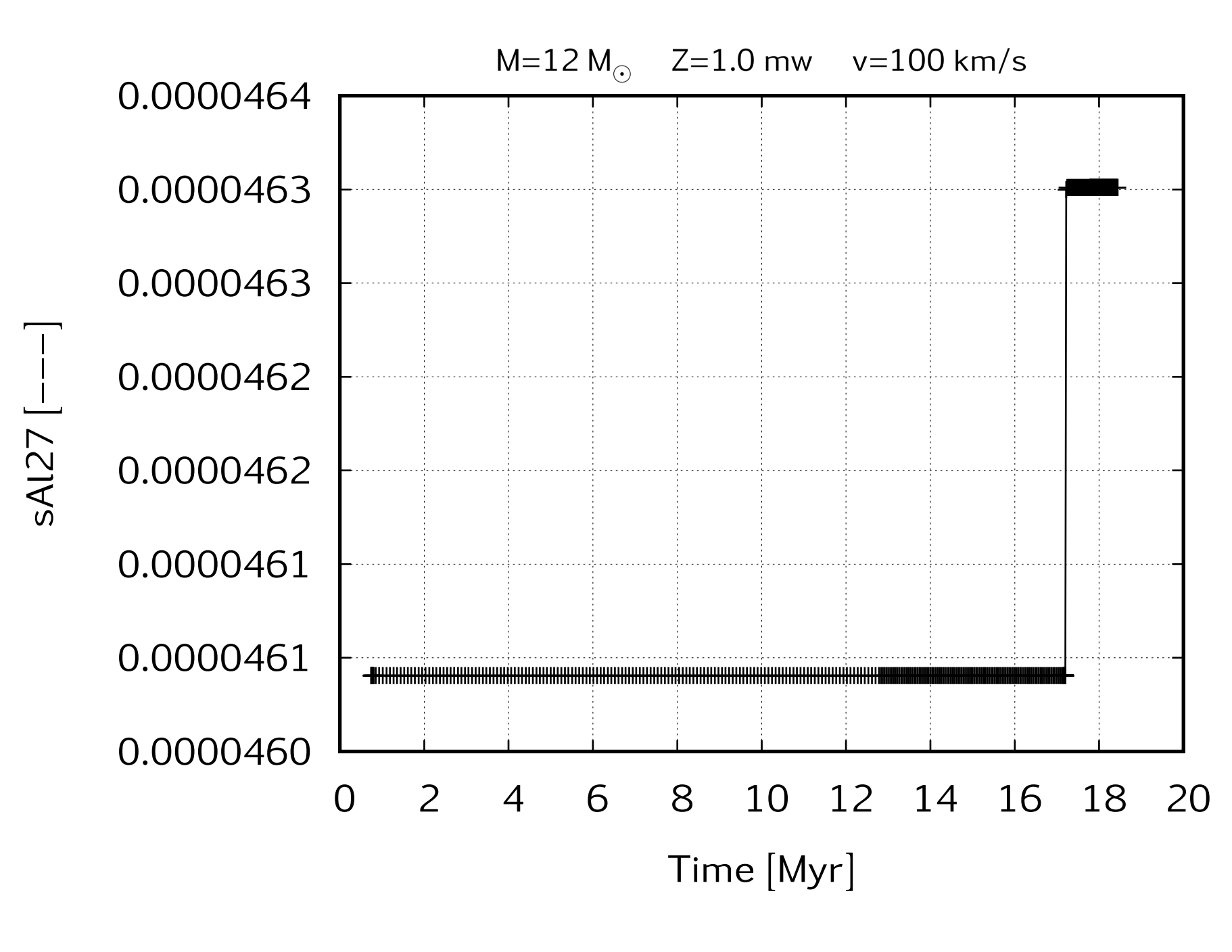

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00004
0.00004
0.00003
0.00003
0.00003
0.00003
0.00002
sNa23 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

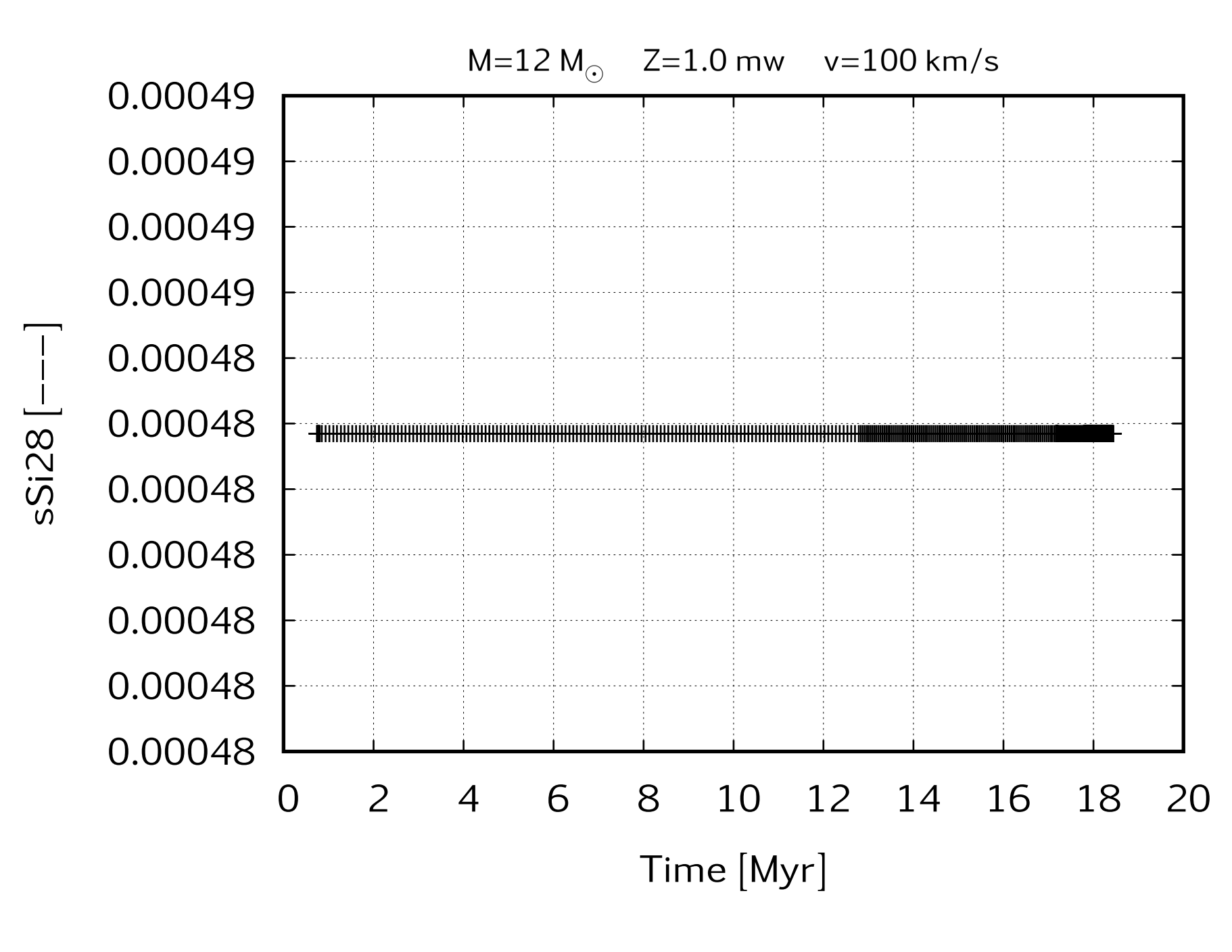

M=12 M⊙ Z=1.0 mw v=100 km/s
0.000288124
0.000288123
0.000288122
0.000288121
0.000288120
0.000288119
0.000288118
sMg24 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

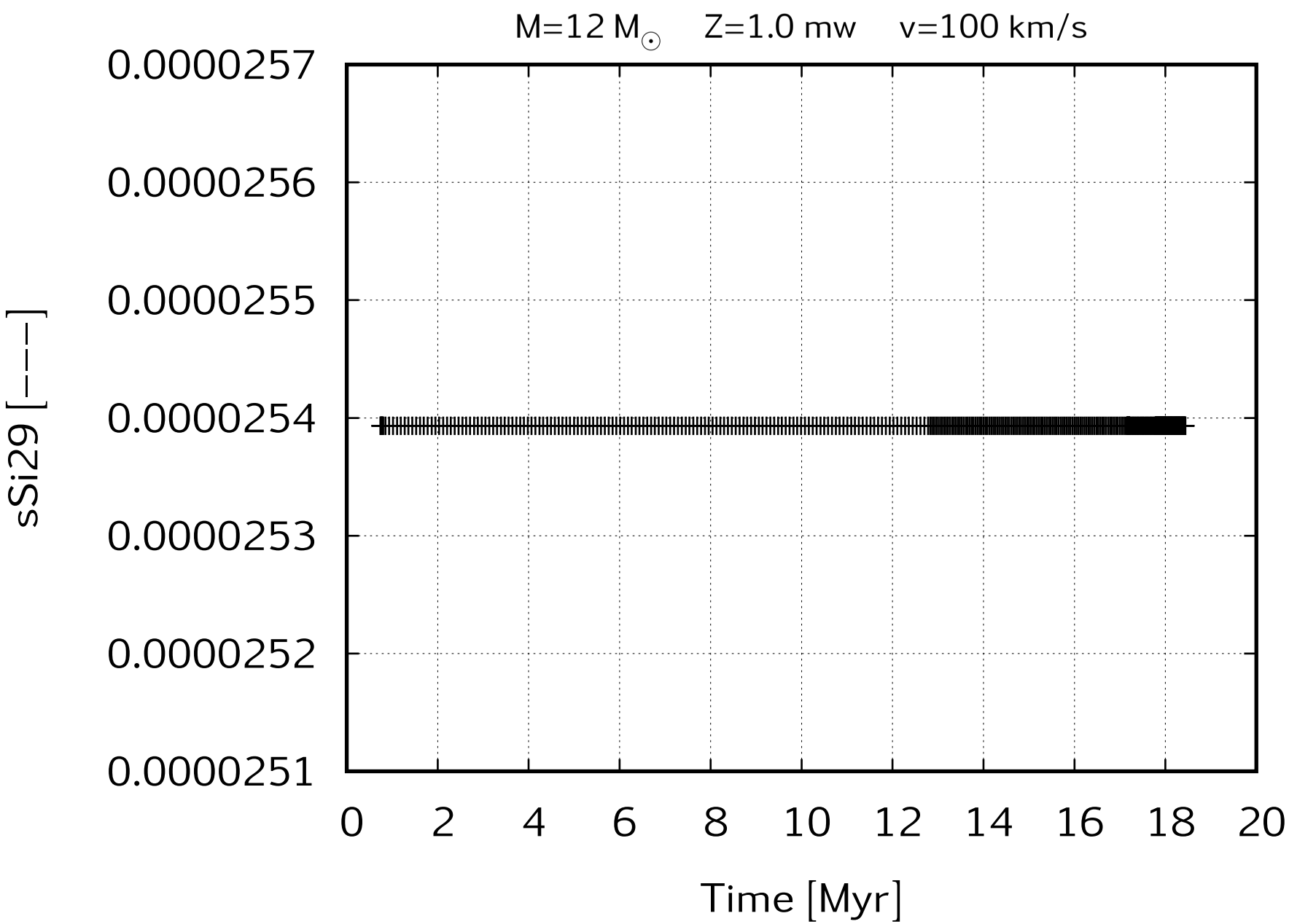

M=12 M⊙ Z=1.0 mw v=100 km/s
0.000038
0.000038
0.000037
0.000037
0.000036
0.000036
0.000035
0.000035
0.000034
sMg25 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

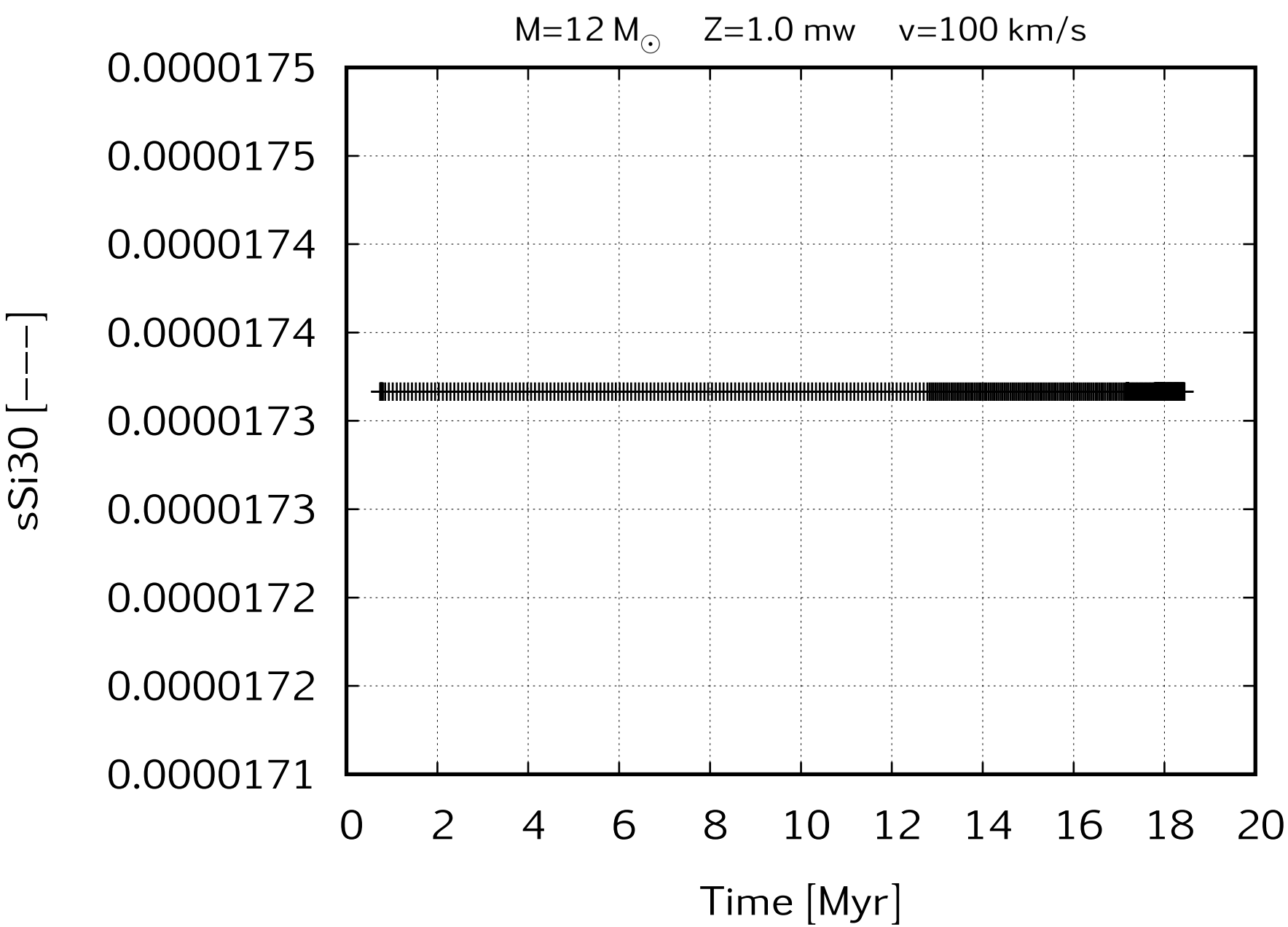

M=12 M⊙ Z=1.0 mw v=100 km/s
0.000046
0.000046
0.000045
0.000045
0.000044
0.000044
0.000043
0.000043
sMg26 [——]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

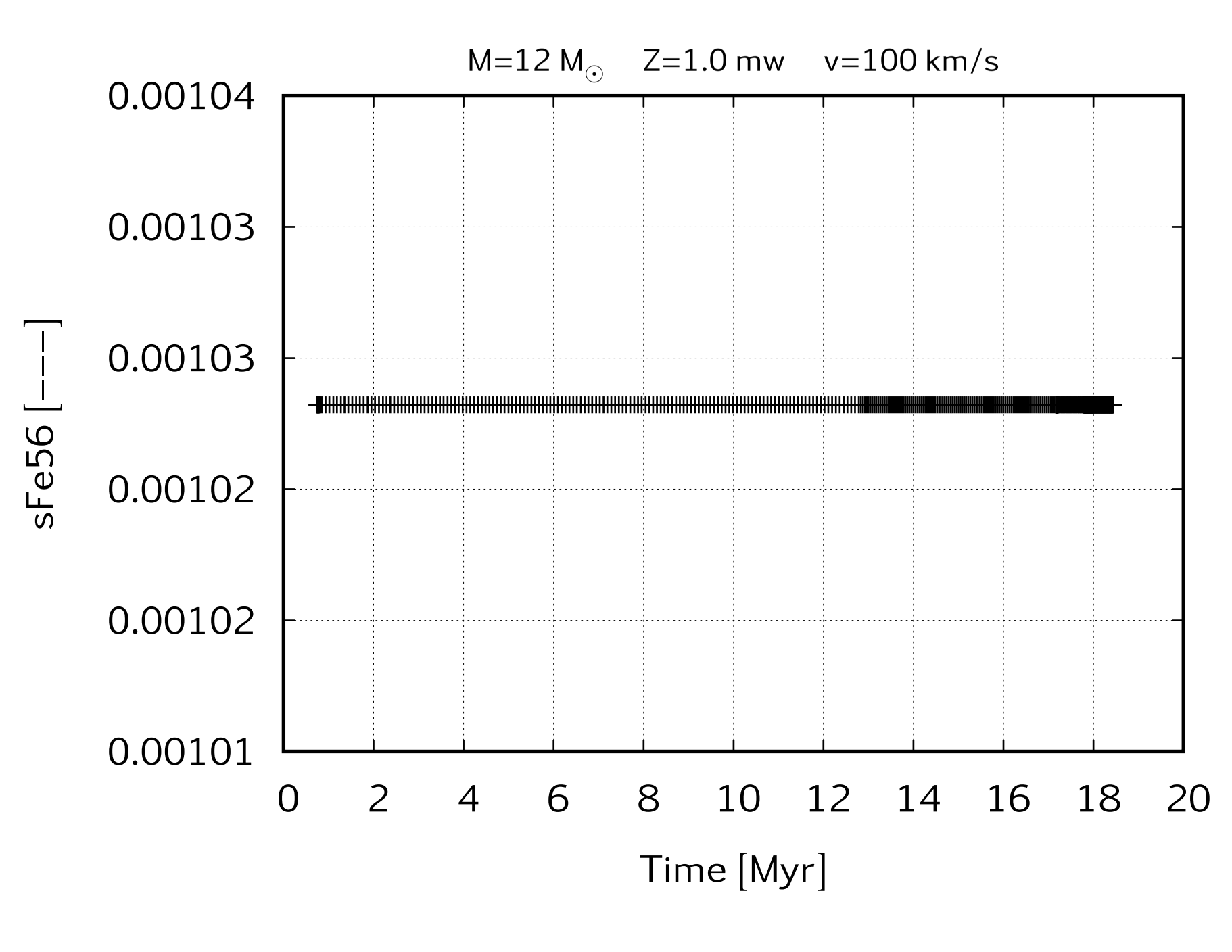

M=12 M⊙ Z=1.0 mw v=100 km/s
1.4×10−10
1.2×10−10
1×10−10
8×10−11
6×10−11
4×10−11
2×10−11
0
sAl26 [−−−]
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

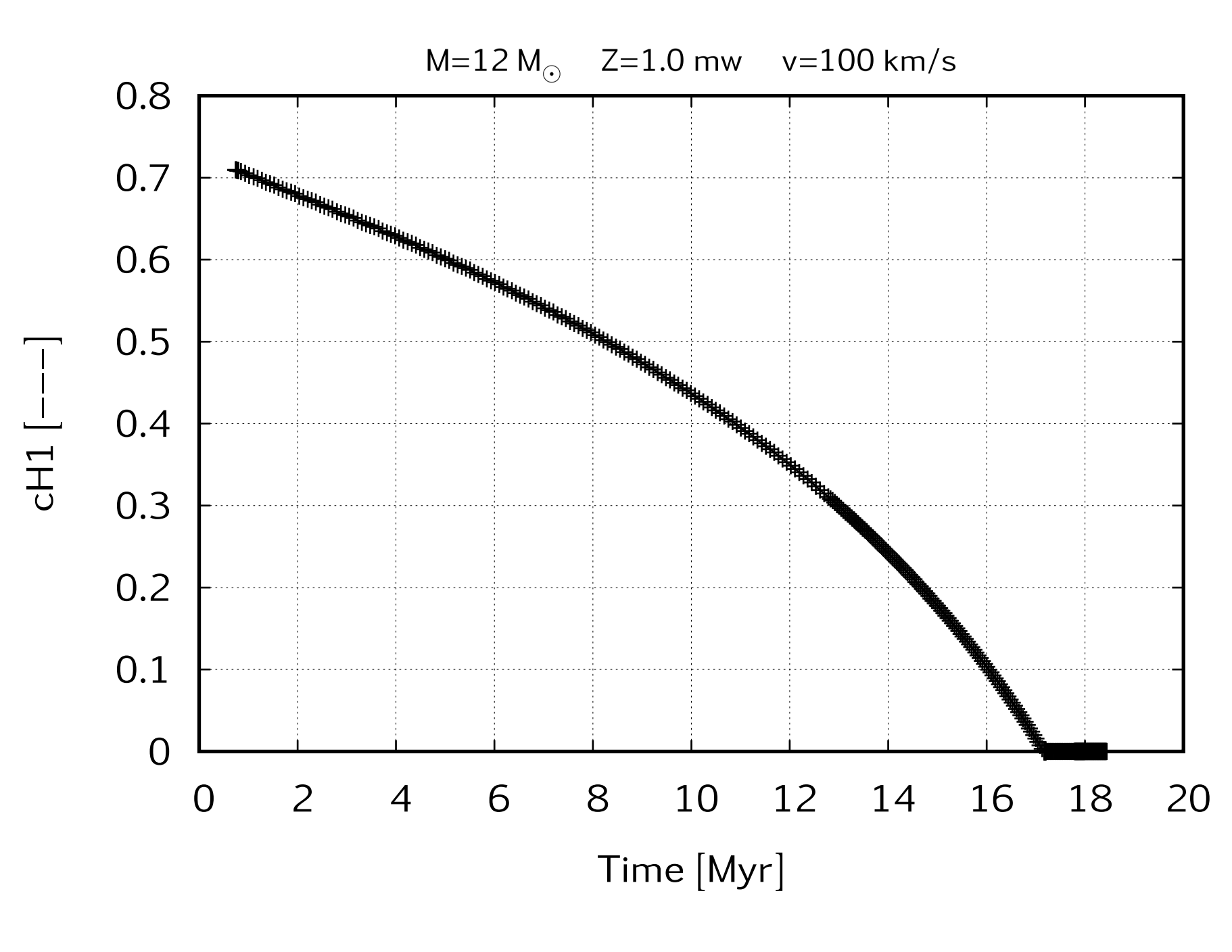

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0000464
0.0000463
0.0000463
0.0000462
0.0000462
0.0000461
0.0000461
0.0000460
sAl27 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

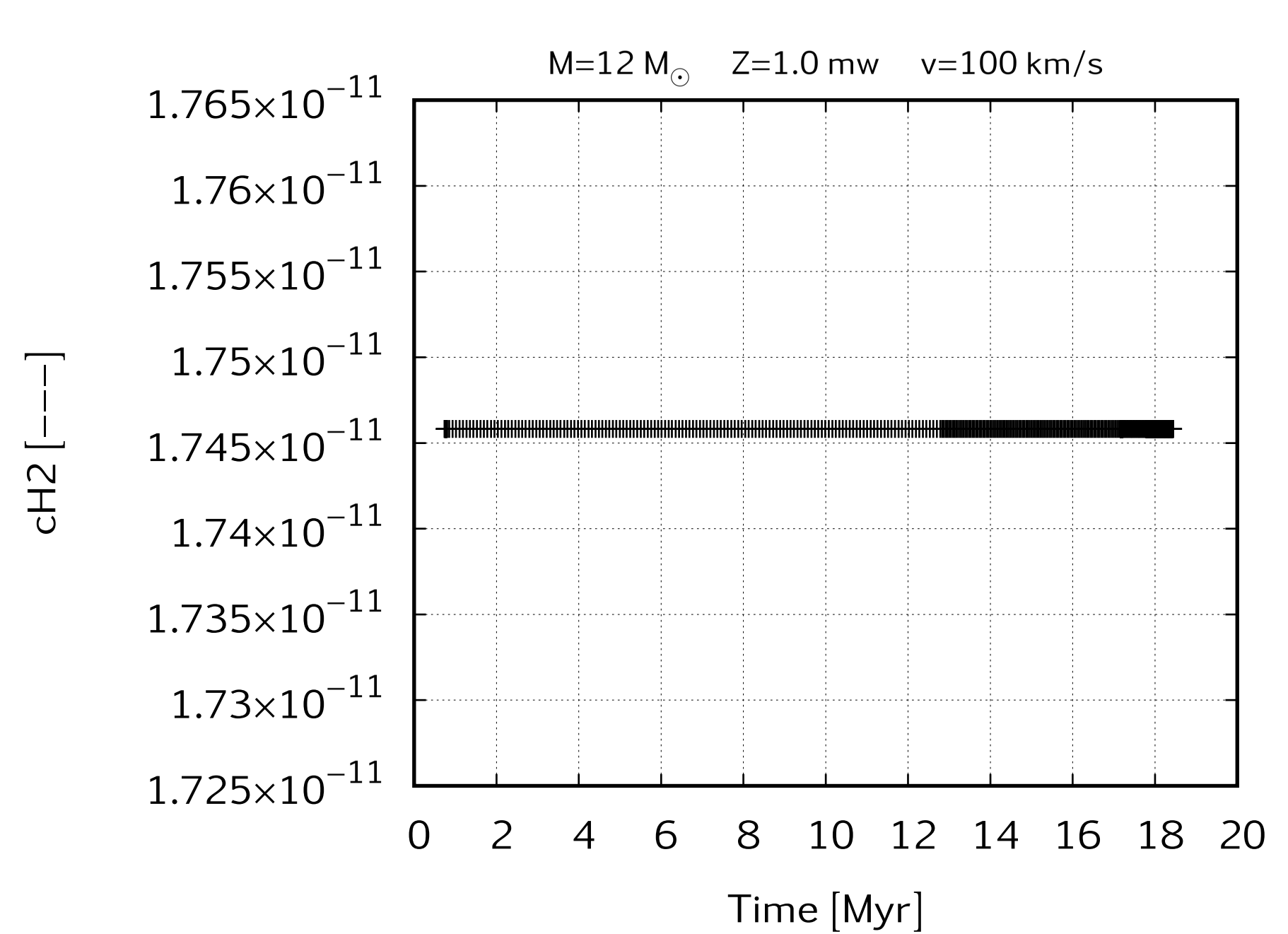

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00049
0.00049
0.00049
0.00049
0.00048
0.00048
0.00048
0.00048
0.00048
0.00048
sSi28 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

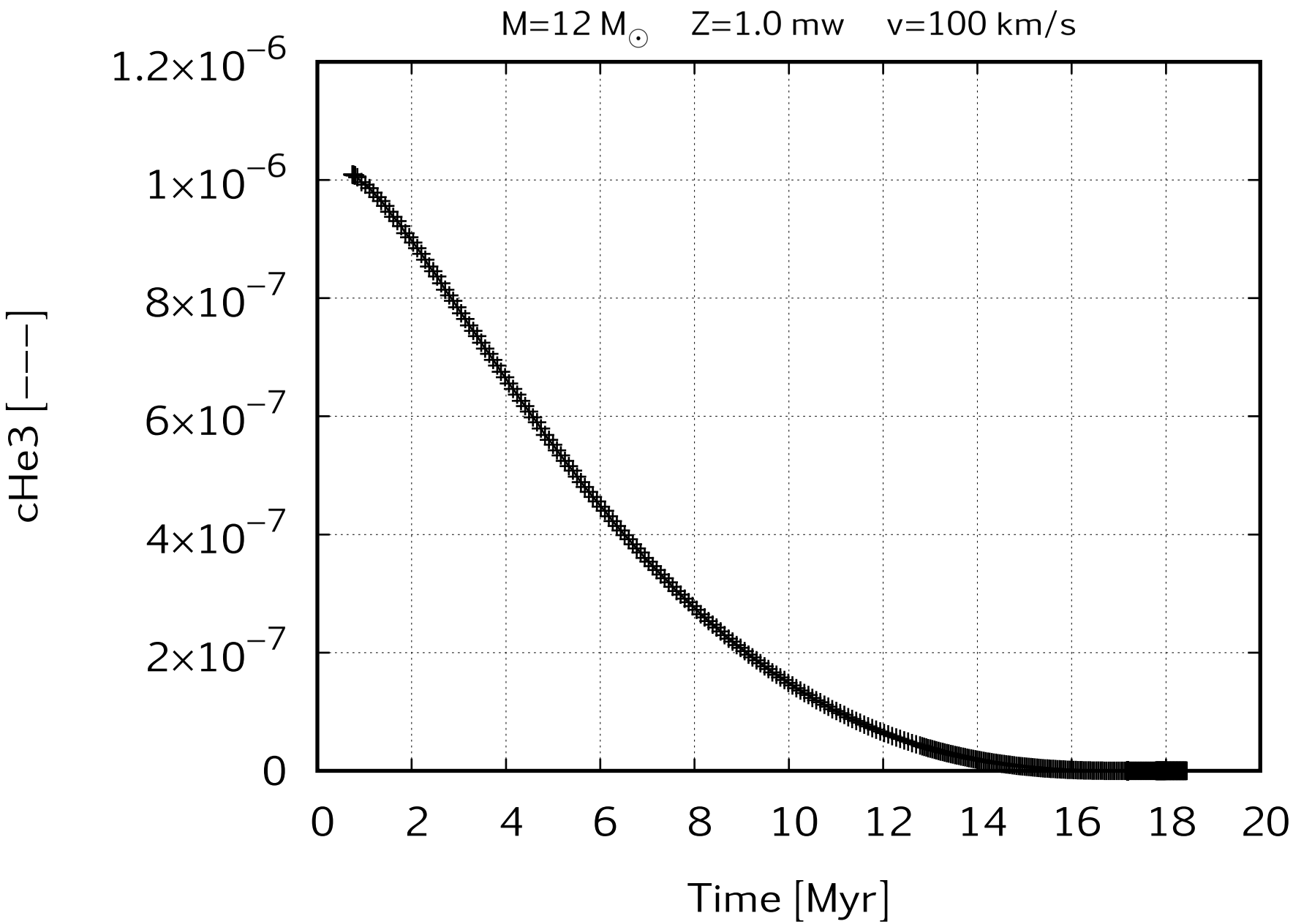

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0000257
0.0000256
0.0000255
0.0000254
0.0000253
0.0000252
0.0000251
sSi29 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

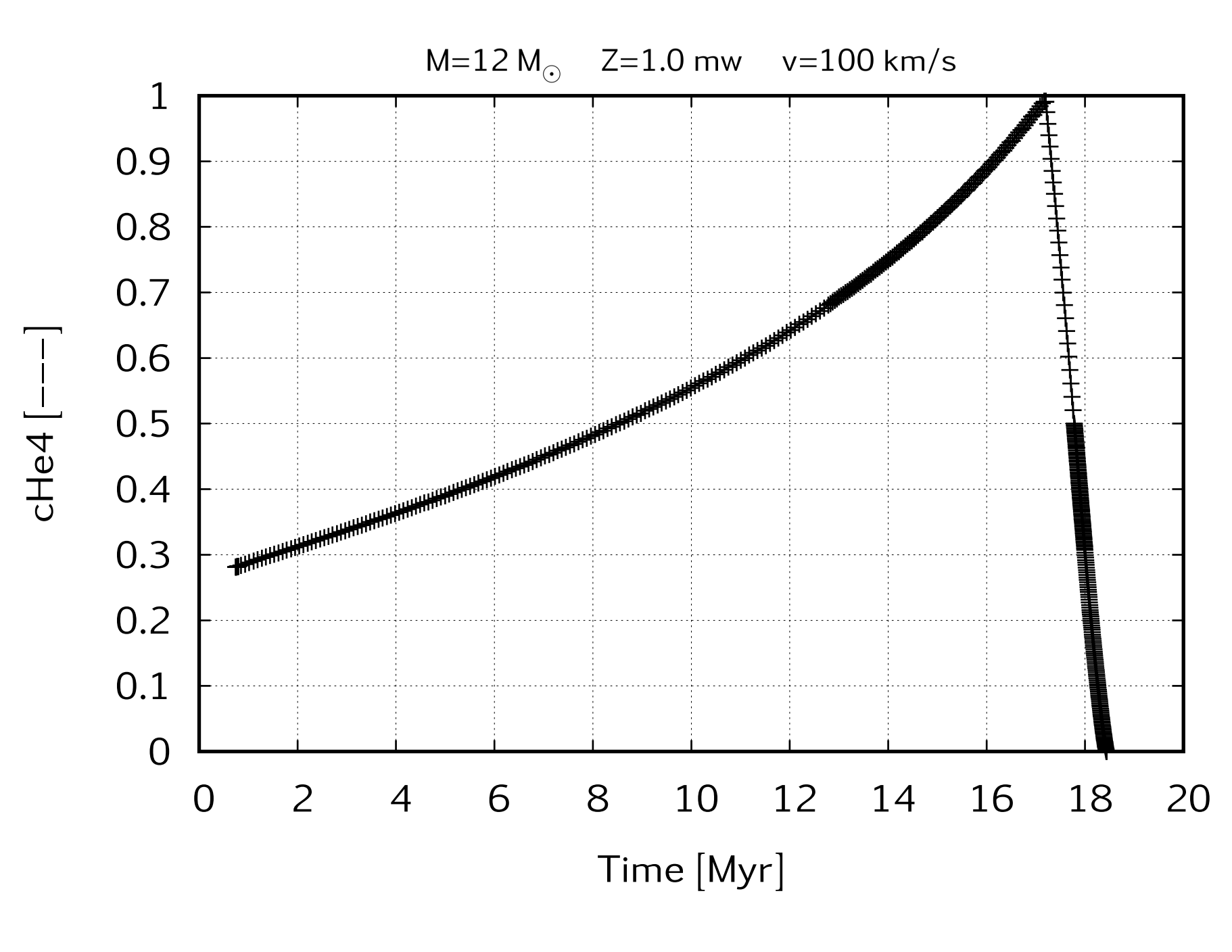

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0000175
0.0000175
0.0000174
0.0000174
0.0000173
0.0000173
0.0000172
0.0000172
0.0000171
sSi30 [—]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

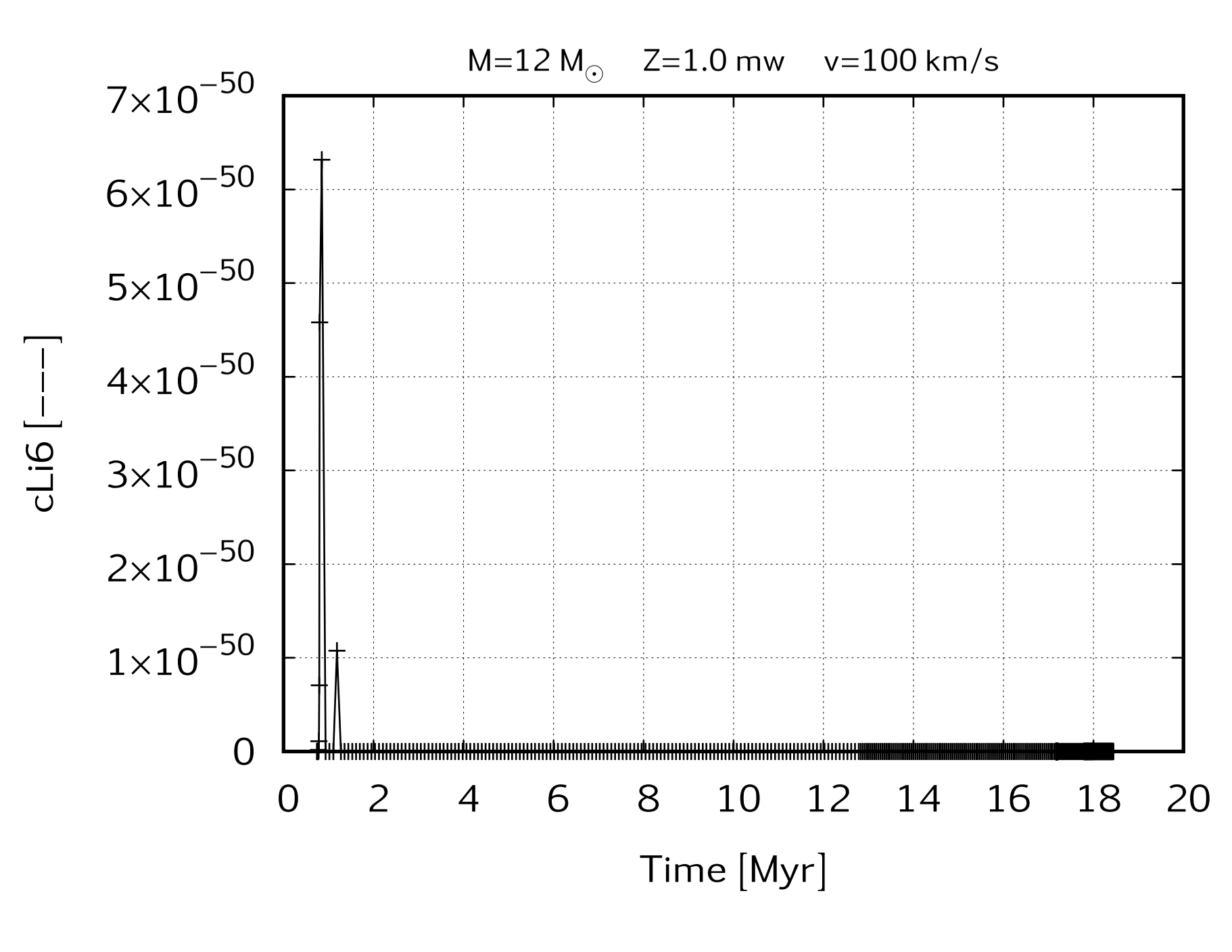

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00104
0.00103
0.00103
0.00102
0.00102
0.00101
sFe56 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

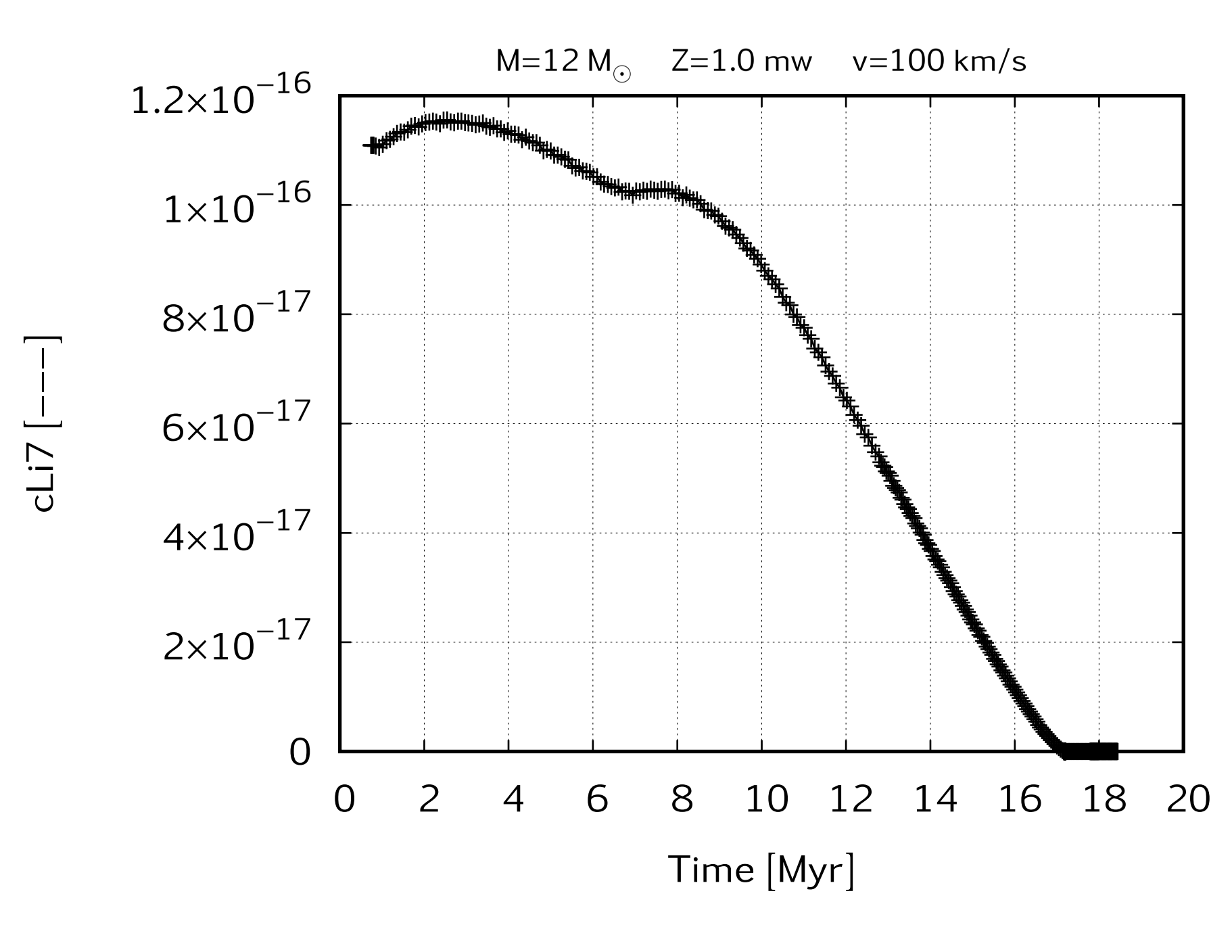

M=12 M⊙ Z=1.0 mw v=100 km/s
cH1 [---]
Time [Myr]
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
2
4
6
8
10
12
14
16
18
20

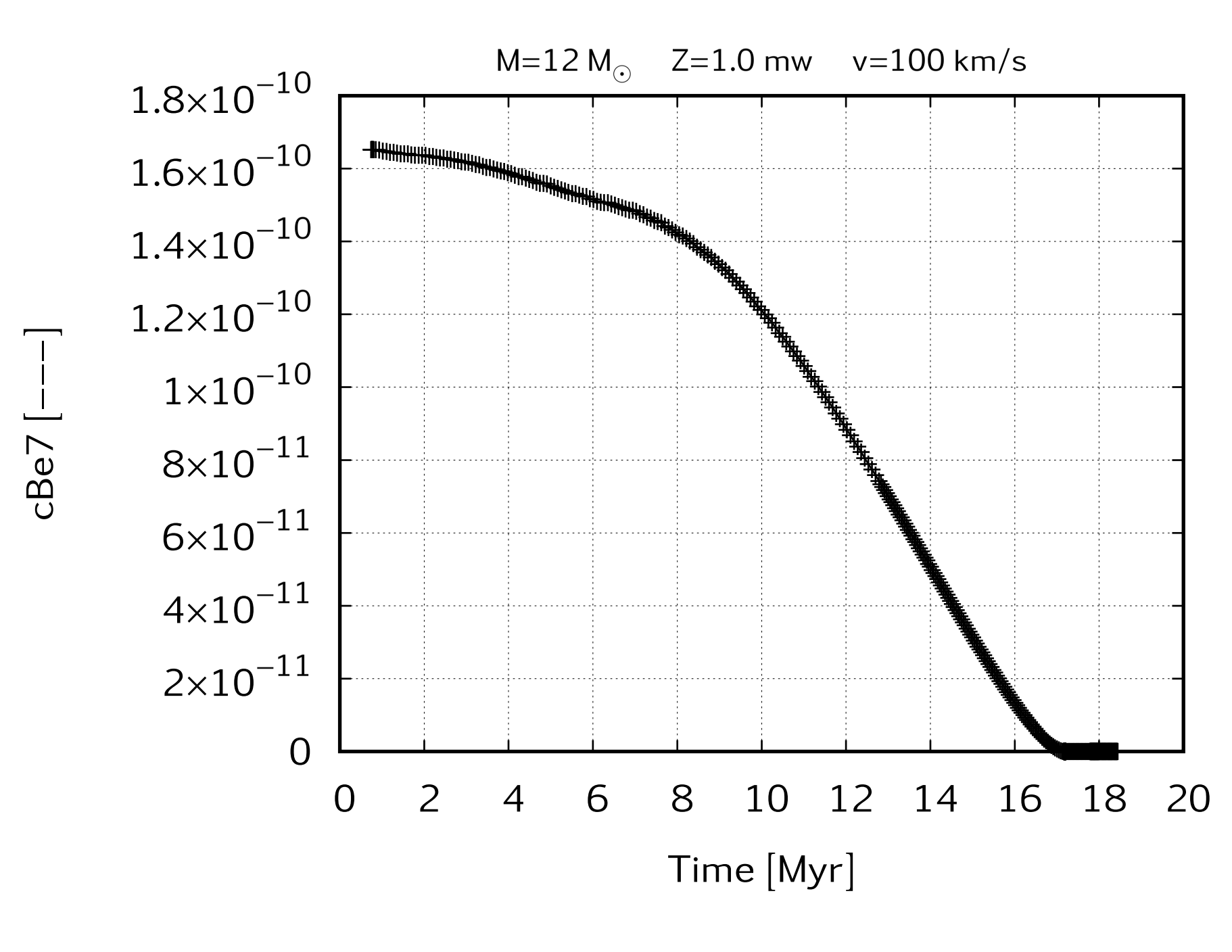

M=12 M⊙ Z=1.0 mw v=100 km/s
1.765×10−11
1.76×10−11
1.755×10−11
1.75×10−11
1.745×10−11
1.74×10−11
1.735×10−11
1.73×10−11
1.725×10−11
cH2 [−−−]
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

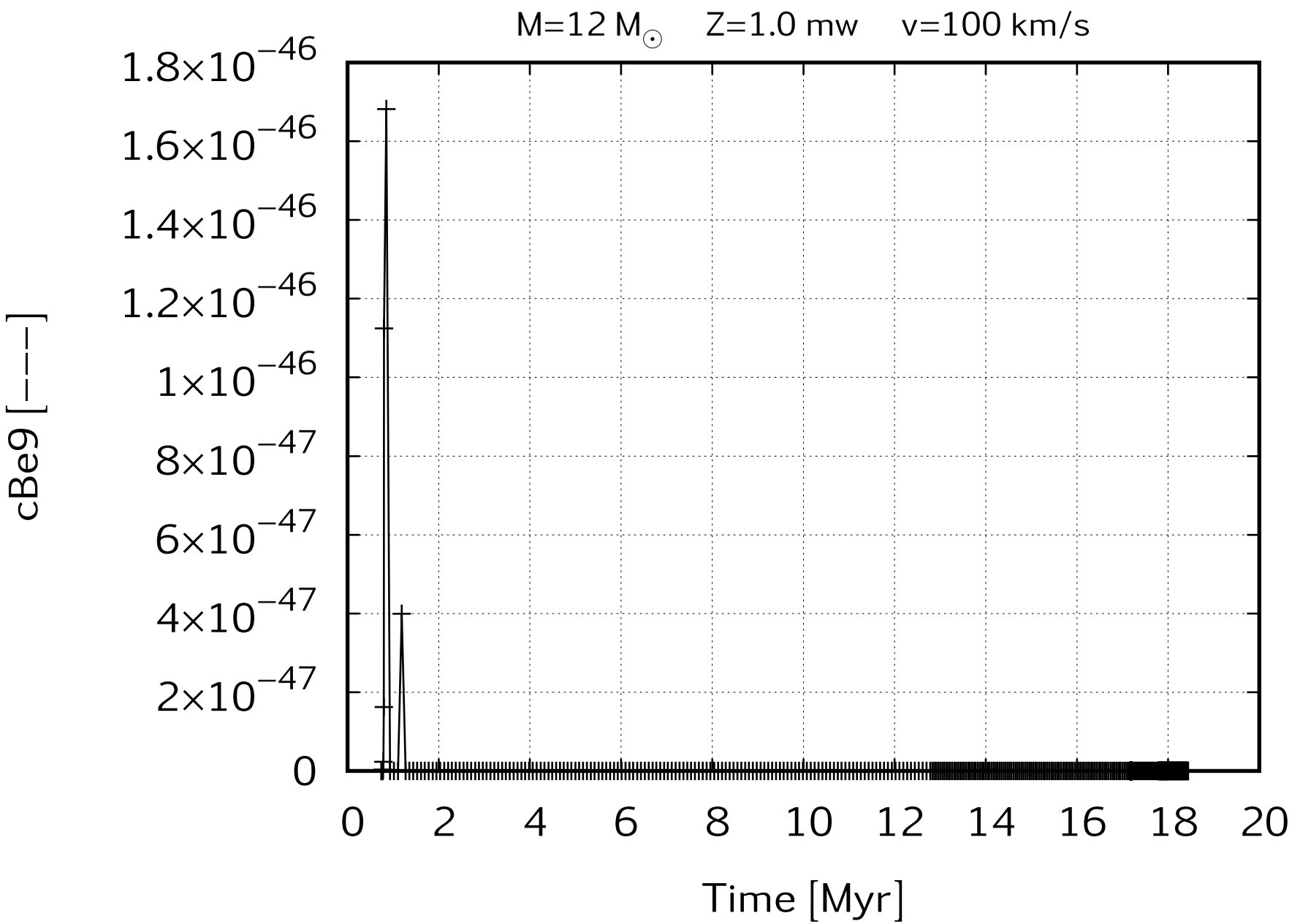

M=12 M⊙ Z=1.0 mw v=100 km/s
1.2×10−6
1×10−6
8×10−7
6×10−7
4×10−7
2×10−7
0
cHe3 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

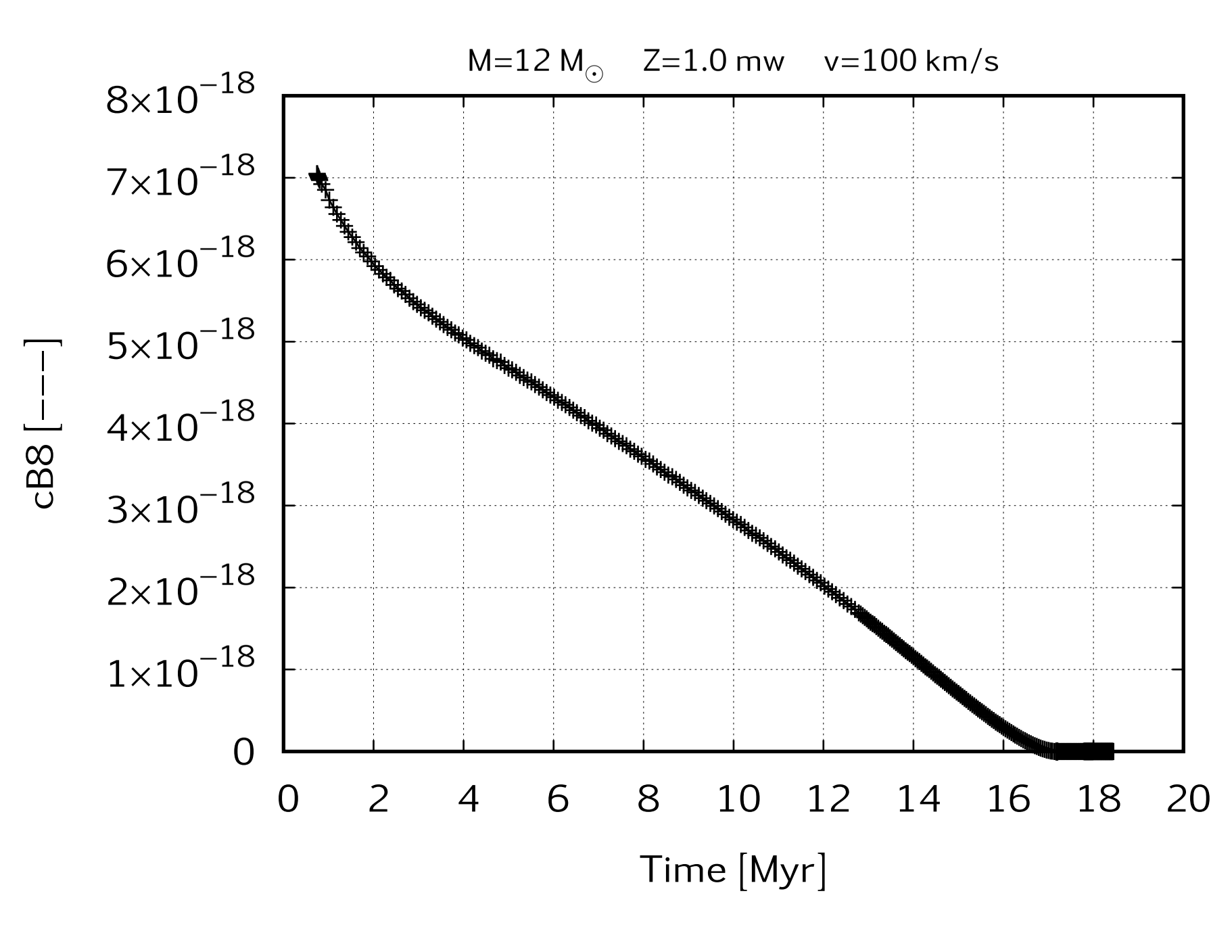

M=12 M⊙ Z=1.0 mw v=100 km/s
cHe4 [---]
Time [Myr]
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
2
4
6
8
10
12
14
16
18
20

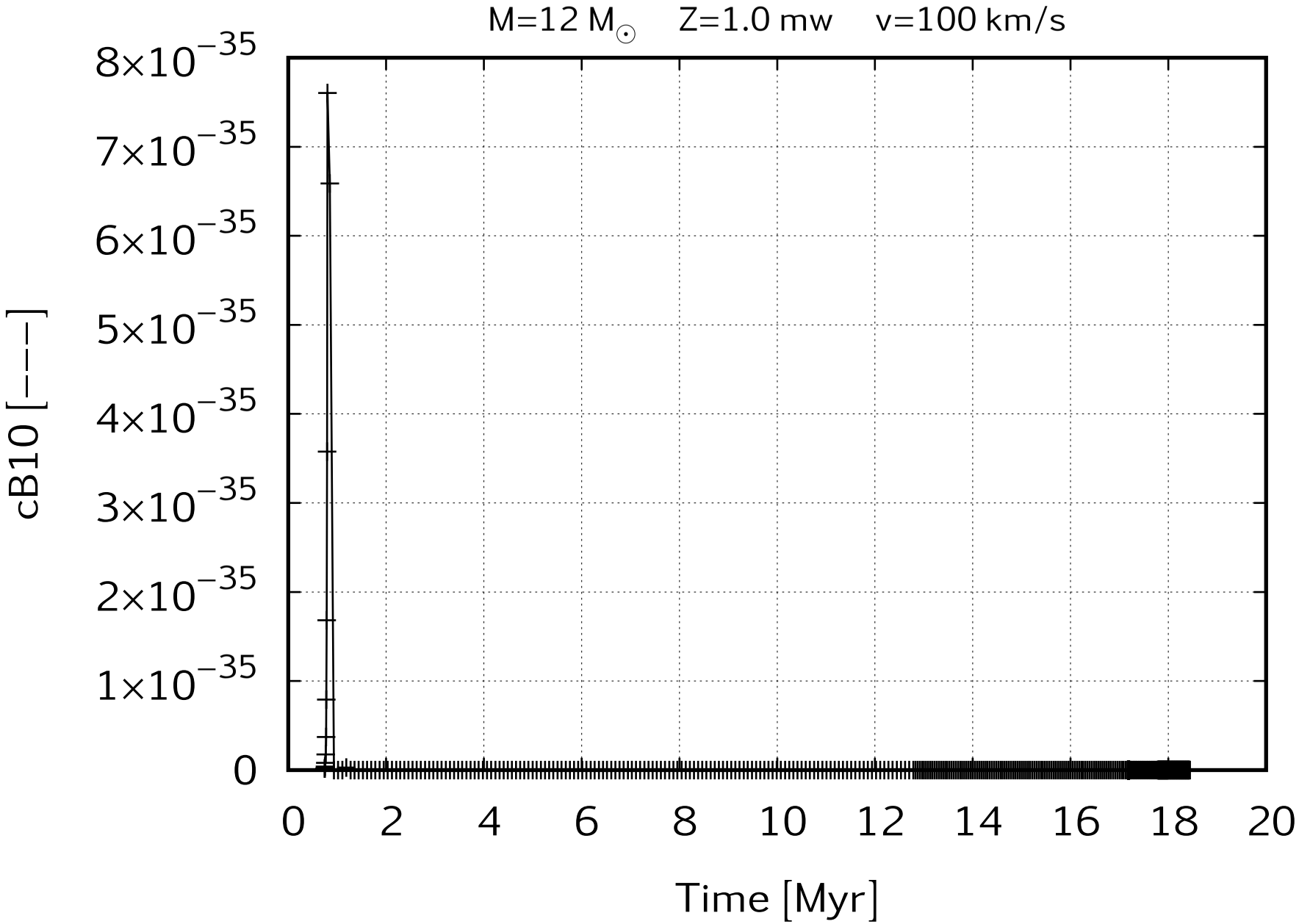

M=12 M⊙ Z=1.0 mw v=100 km/s
7×10−50
6×10−50
5×10−50
4×10−50
3×10−50
2×10−50
1×10−50
0
cLi6 [−−−]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

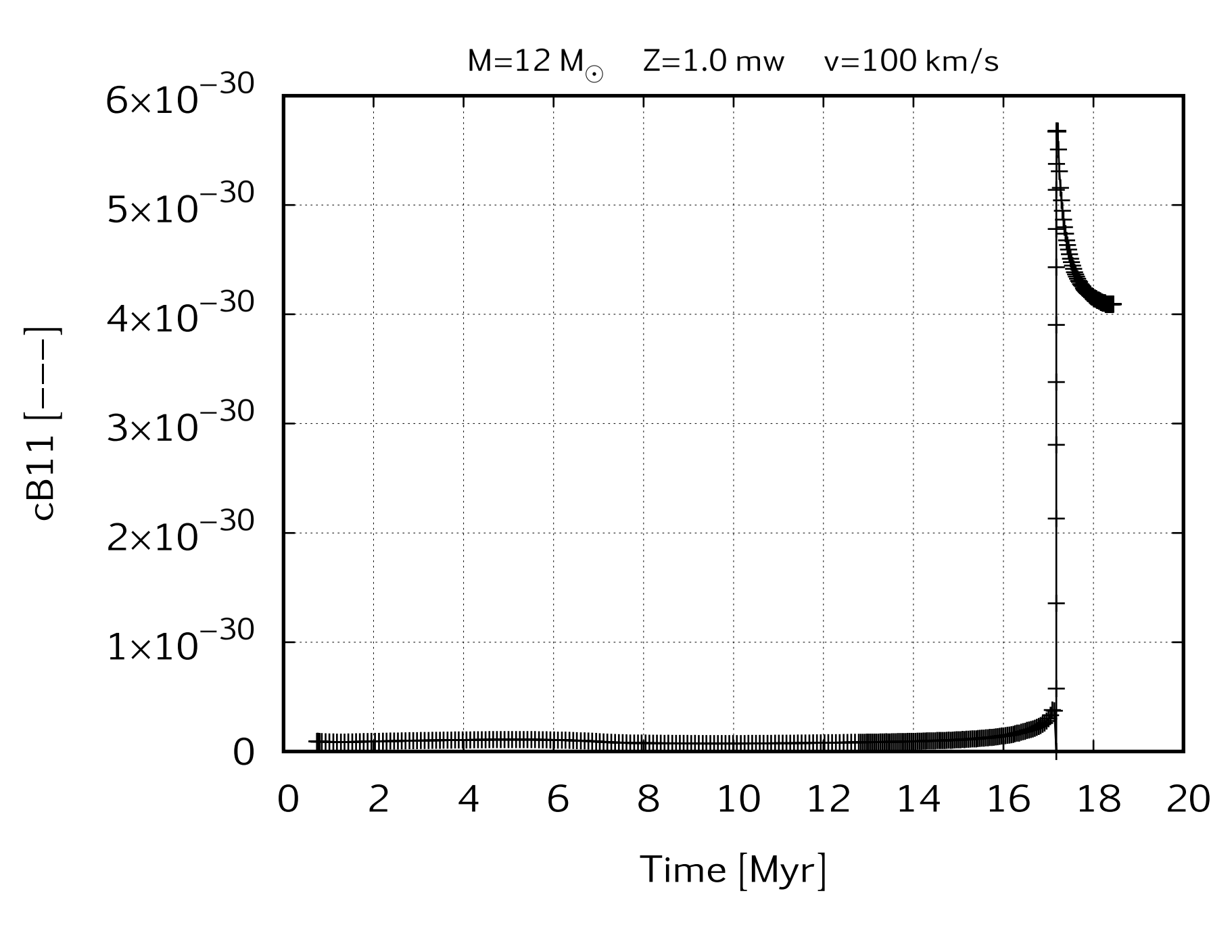

M=12 M⊙ Z=1.0 mw v=100 km/s
1.2×10−16
1×10−16
8×10−17
6×10−17
4×10−17
2×10−17
0
cLi7 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

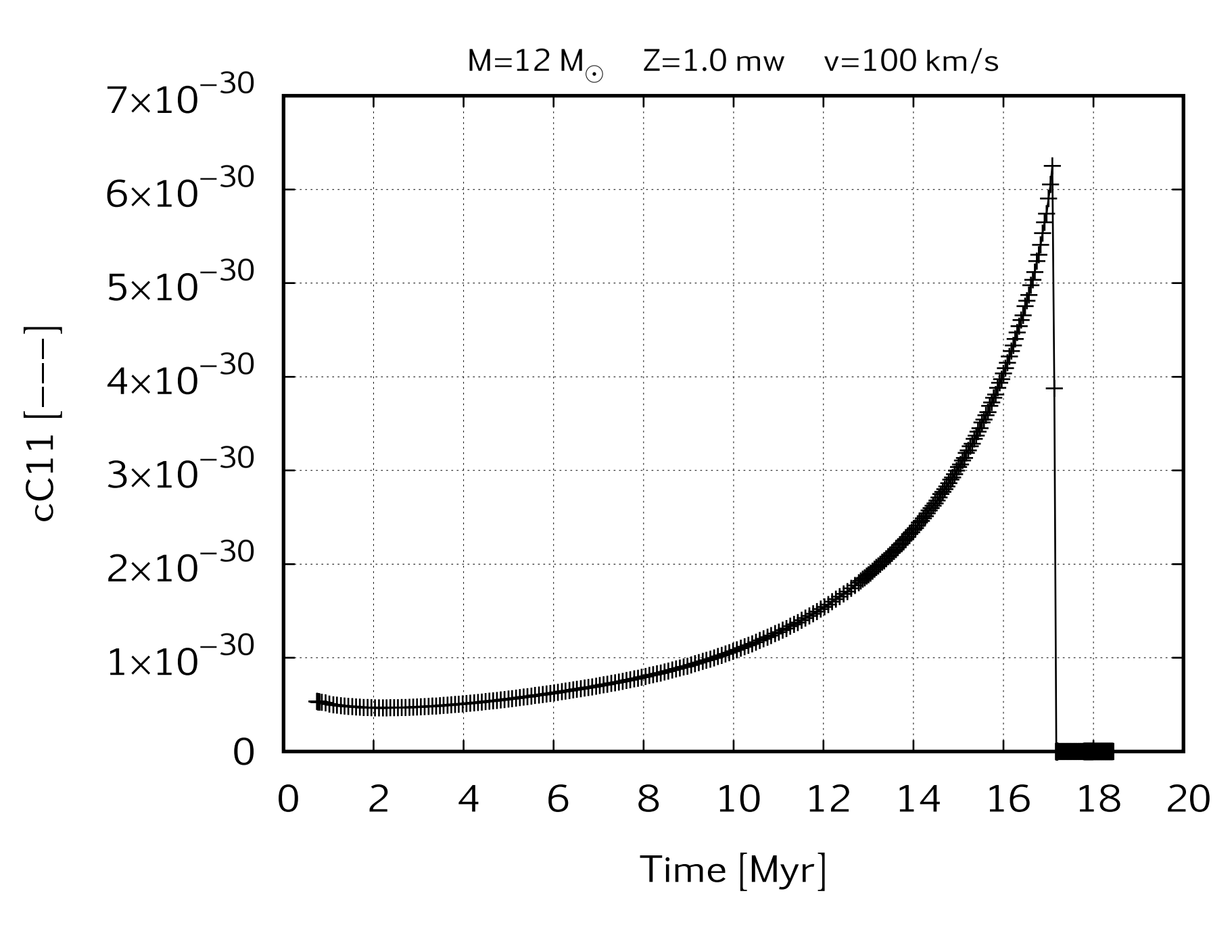

M=12 M⊙ Z=1.0 mw v=100 km/s
cBe7 [---]
1.8×10−10
1.6×10−10
1.4×10−10
1.2×10−10
1×10−10
8×10−11
6×10−11
4×10−11
2×10−11
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

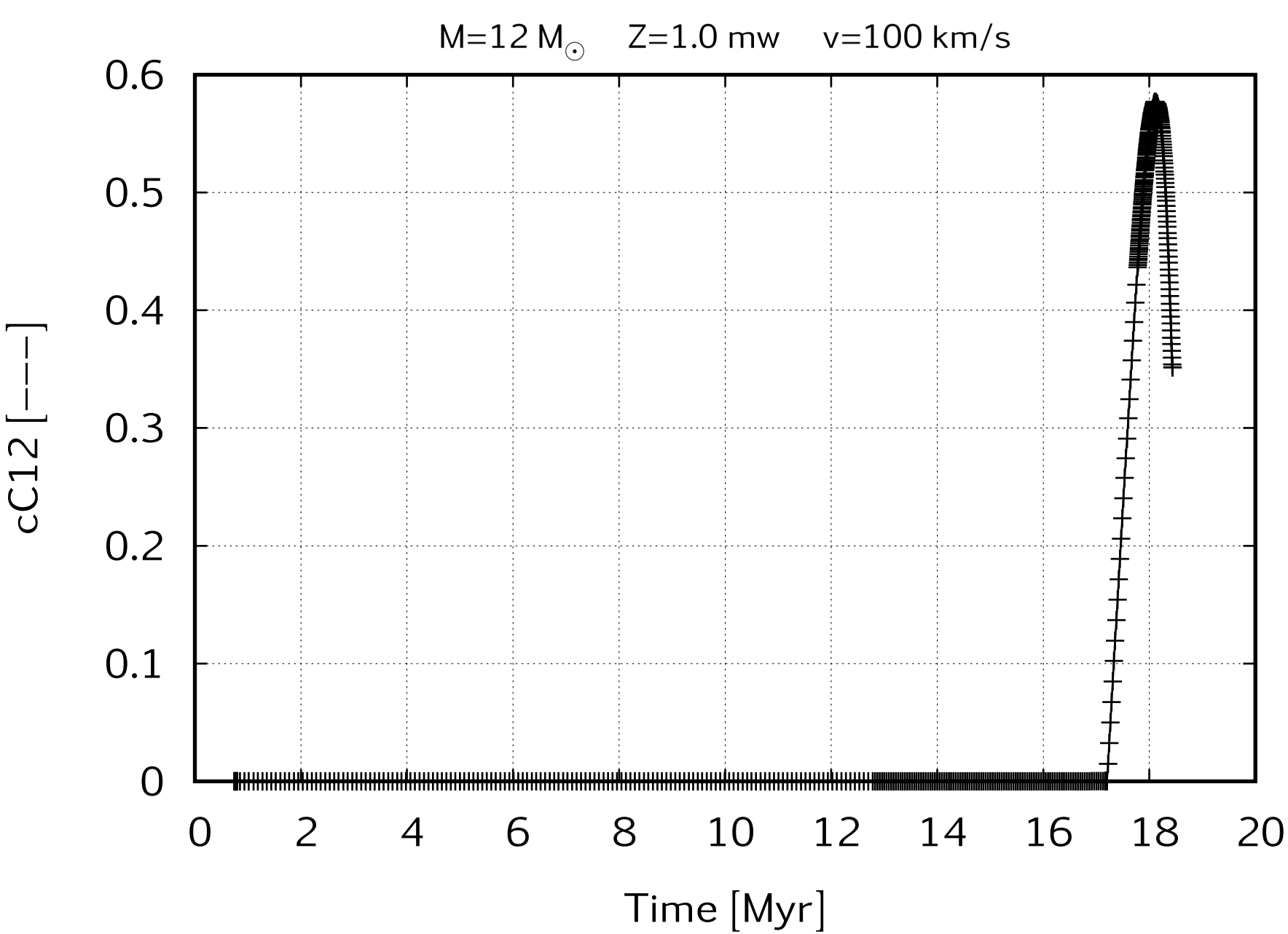

M=12 M⊙ Z=1.0 mw v=100 km/s
cBe9 [---]
1.8×10−46
1.6×10−46
1.4×10−46
1.2×10−46
1×10−46
8×10−47
6×10−47
4×10−47
2×10−47
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

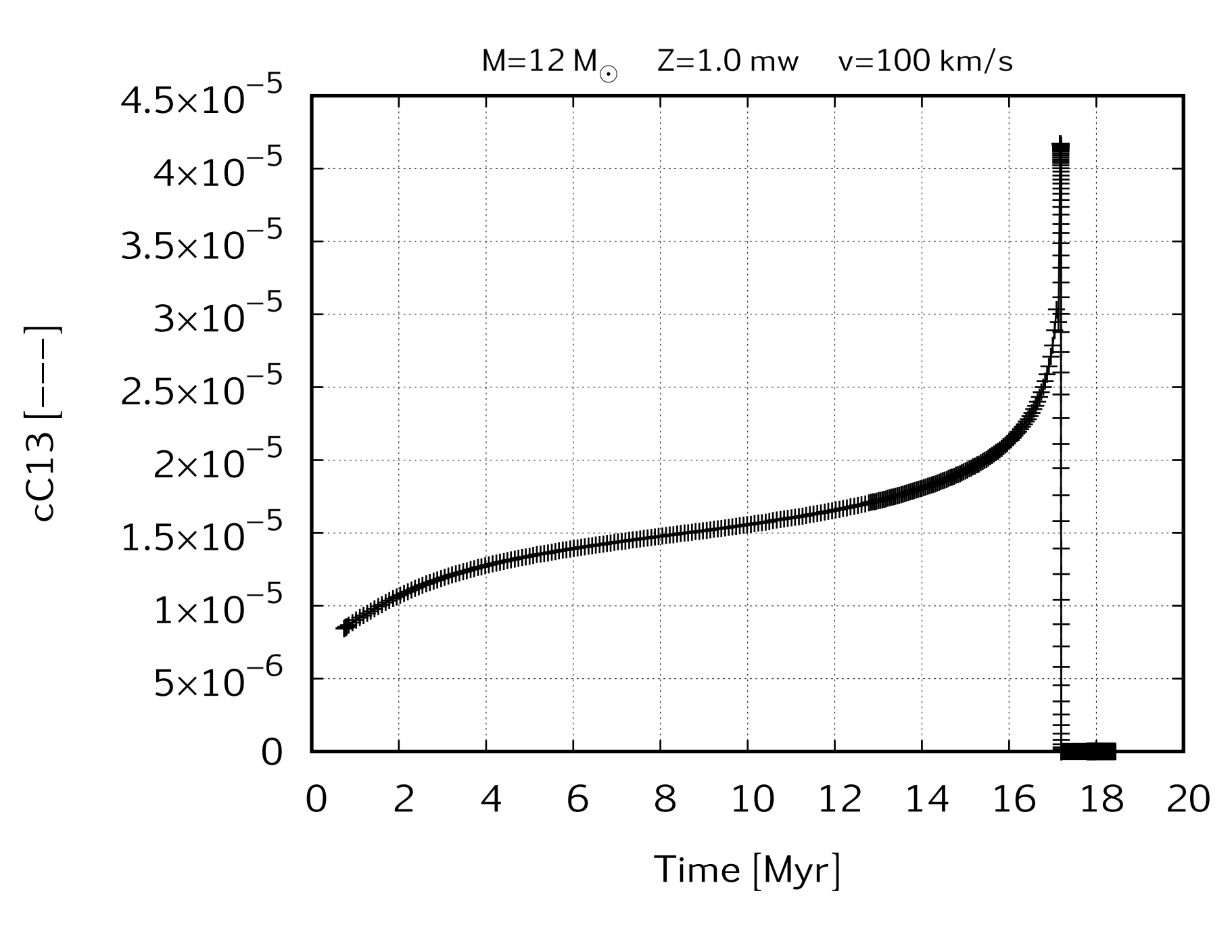

M=12 M⊙ Z=1.0 mw v=100 km/s
8×10−18
7×10−18
6×10−18
5×10−18
4×10−18
3×10−18
2×10−18
1×10−18
0
cB8 [—]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

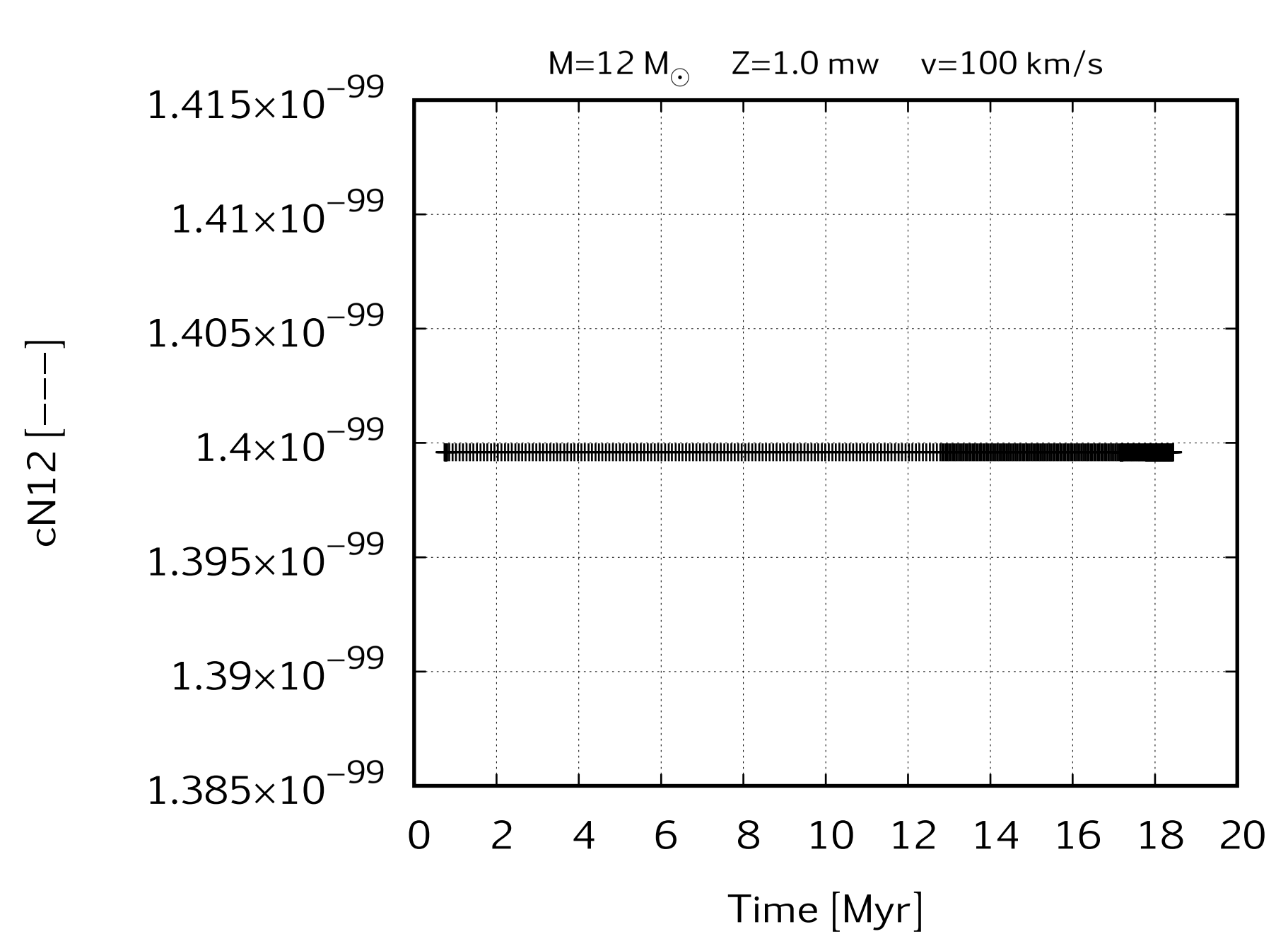

M=12 M⊙ Z=1.0 mw v=100 km/s
cB10 [---]
8×10−35
7×10−35
6×10−35
5×10−35
4×10−35
3×10−35
2×10−35
1×10−35
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

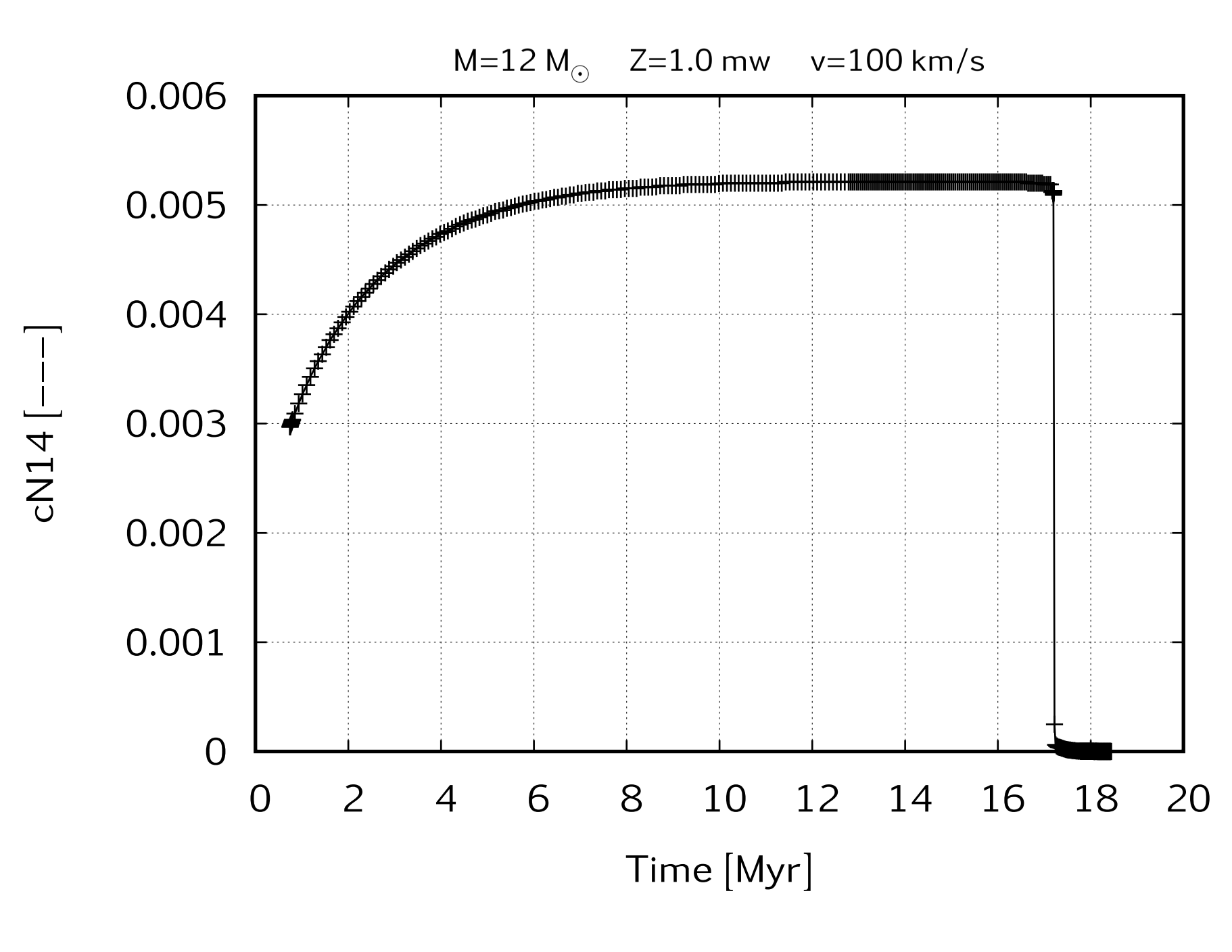

M=12 M⊙ Z=1.0 mw v=100 km/s
cB11 [---]
6×10−30
5×10−30
4×10−30
3×10−30
2×10−30
1×10−30
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

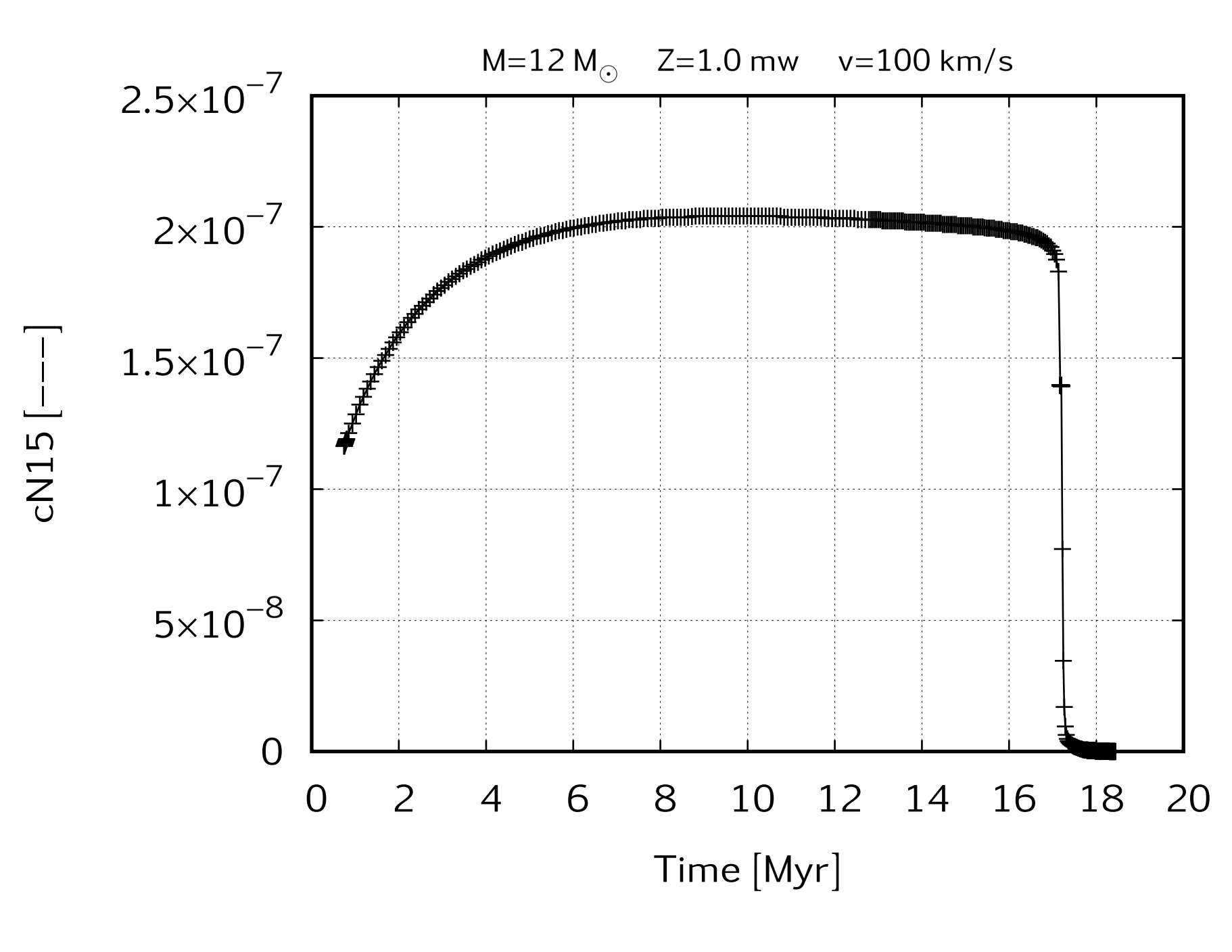

M=12 M⊙ Z=1.0 mw v=100 km/s
7×10−30
6×10−30
5×10−30
4×10−30
3×10−30
2×10−30
1×10−30
0
cC11 [−−−]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

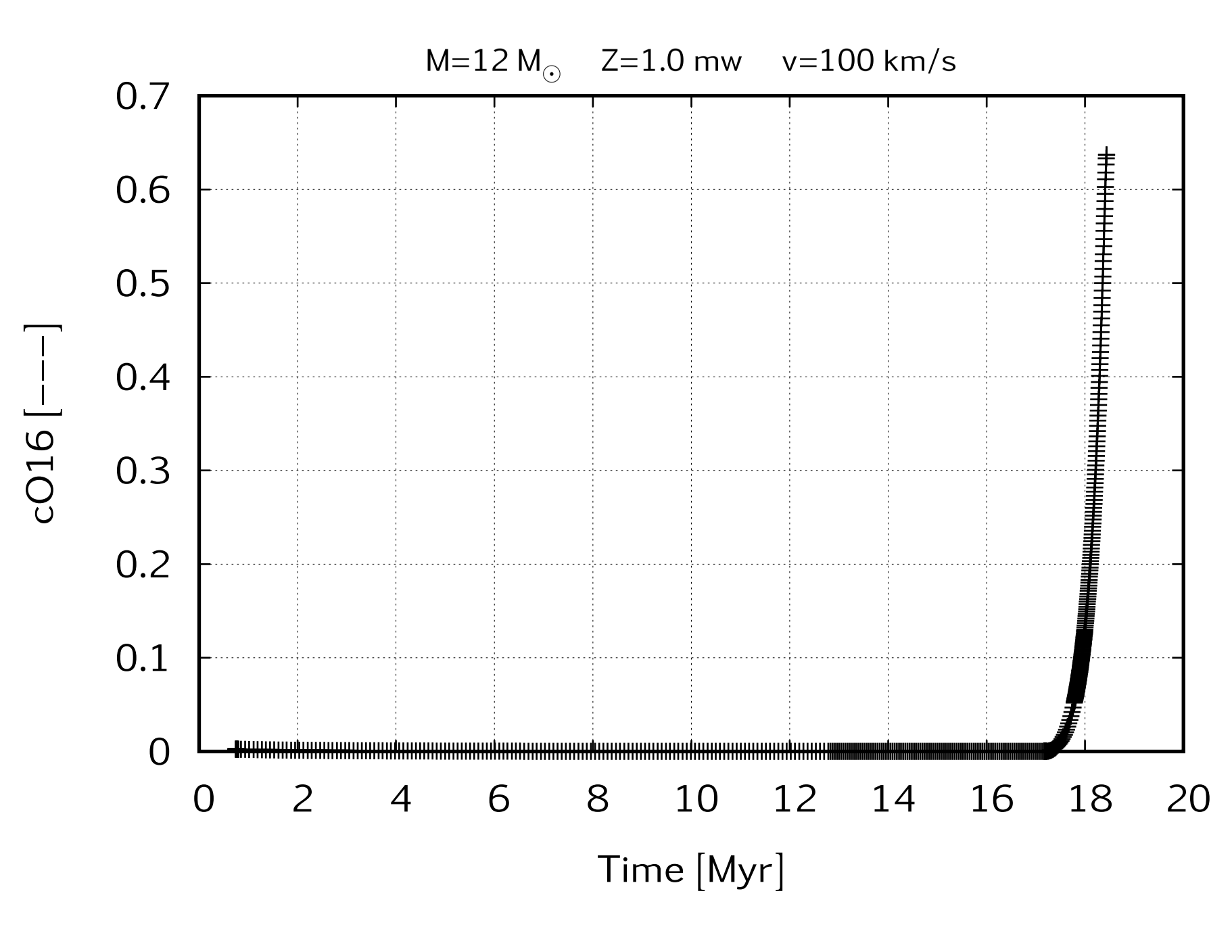

M=12 M⊙ Z=1.0 mw v=100 km/s
cC12 [---]
0.6
0.5
0.4
0.3
0.2
0.1
0
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

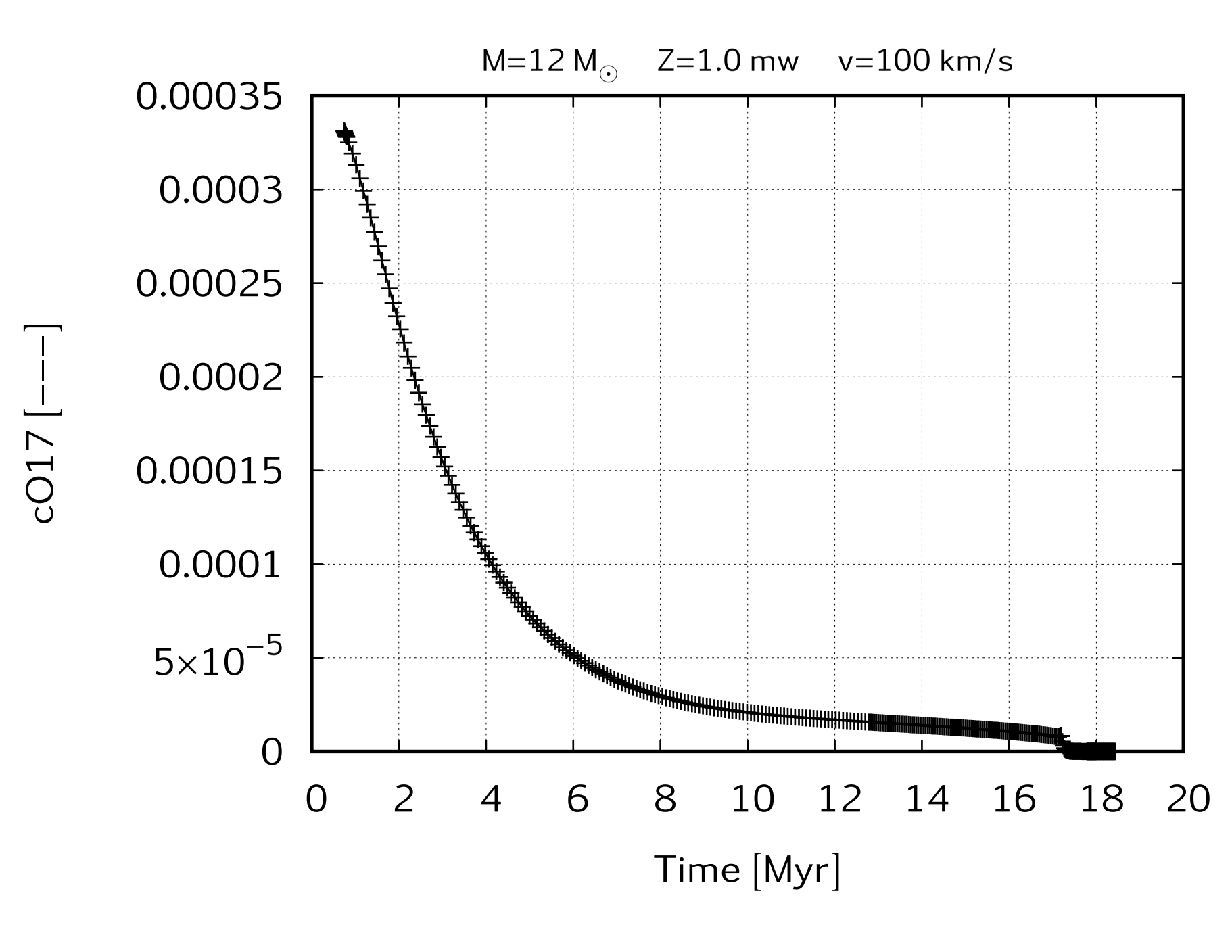

M=12 M⊙ Z=1.0 mw v=100 km/s
cC13 [---]
4.5×10−5
4×10−5
3.5×10−5
3×10−5
2.5×10−5
2×10−5
1.5×10−5
1×10−5
5×10−6
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

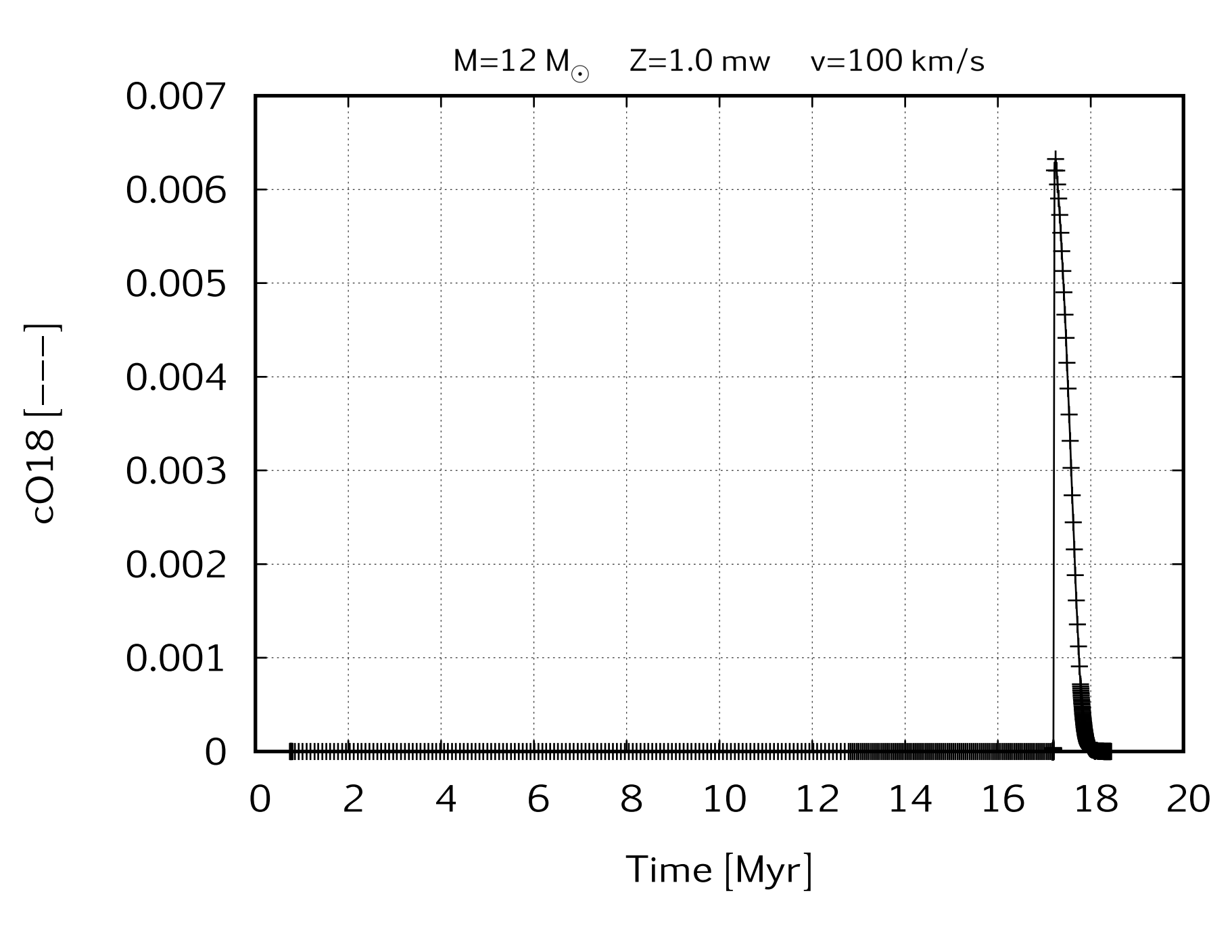

M=12 M⊙ Z=1.0 mw v=100 km/s
1.415×10−99
1.41×10−99
1.405×10−99
1.4×10−99
1.395×10−99
1.39×10−99
1.385×10−99
cN12 [———]
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

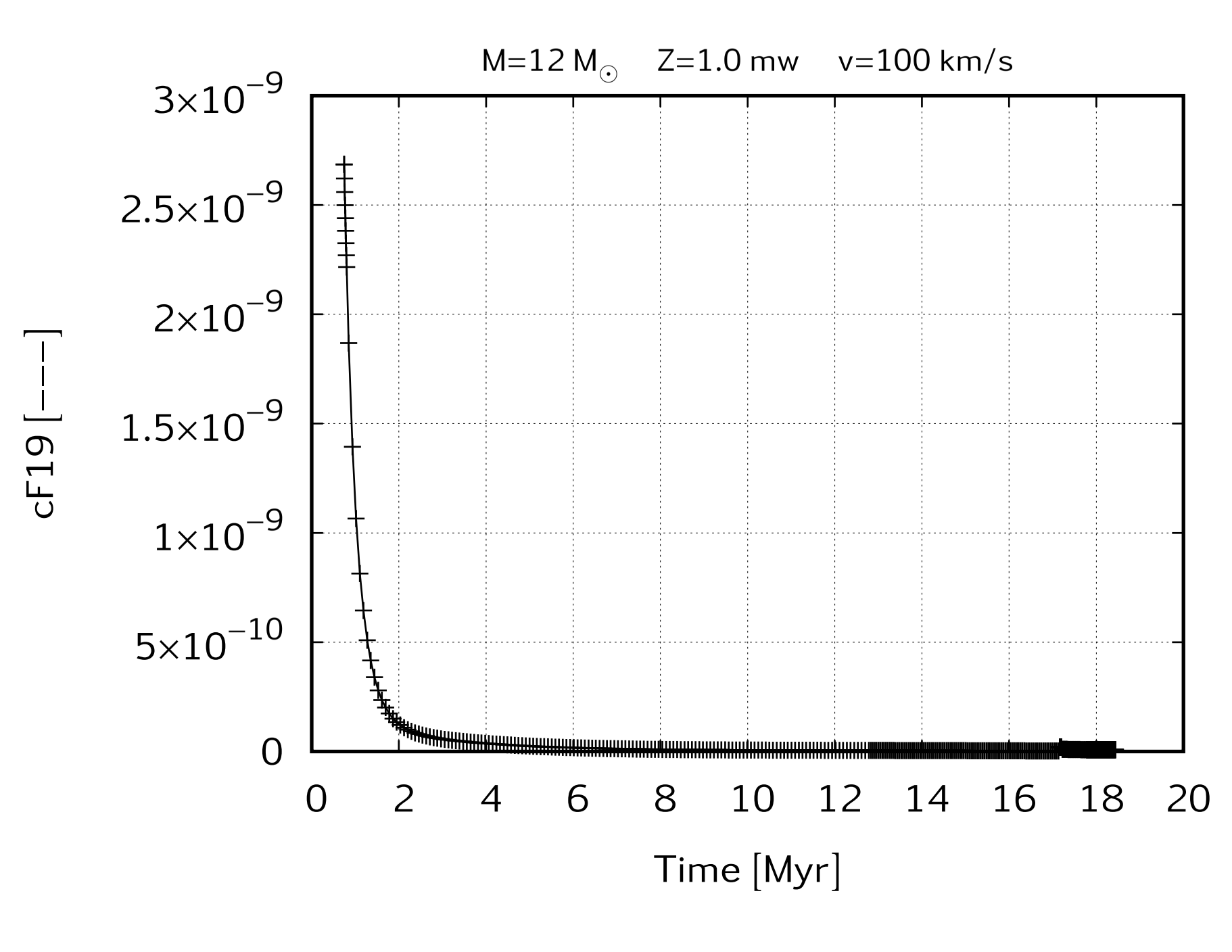

M=12 M⊙ Z=1.0 mw v=100 km/s
0.006
0.005
0.004
0.003
0.002
0.001
0
cN14 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

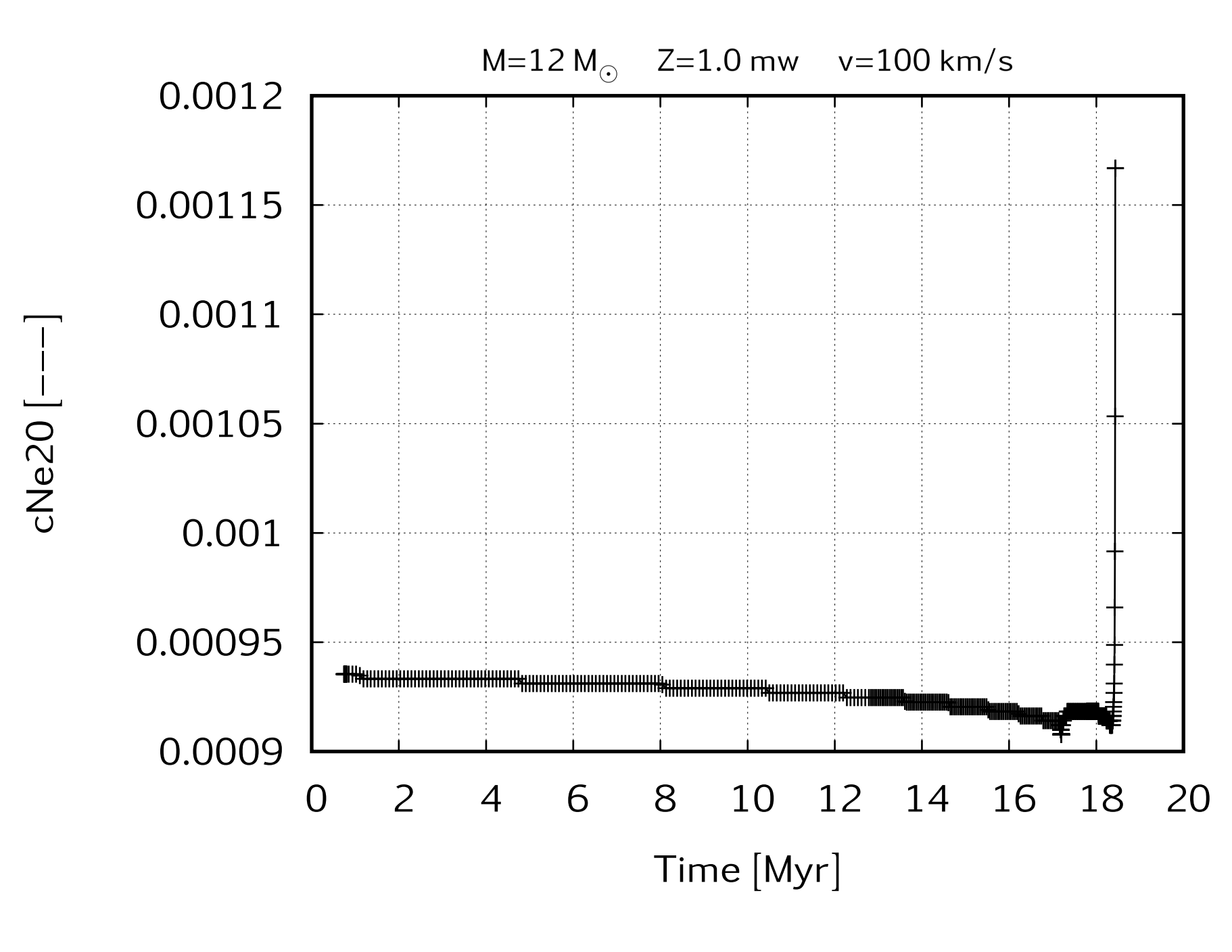

M=12 M⊙ Z=1.0 mw v=100 km/s
2.5×10−7
2×10−7
1.5×10−7
1×10−7
5×10−8
0
cN15 [−−−]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

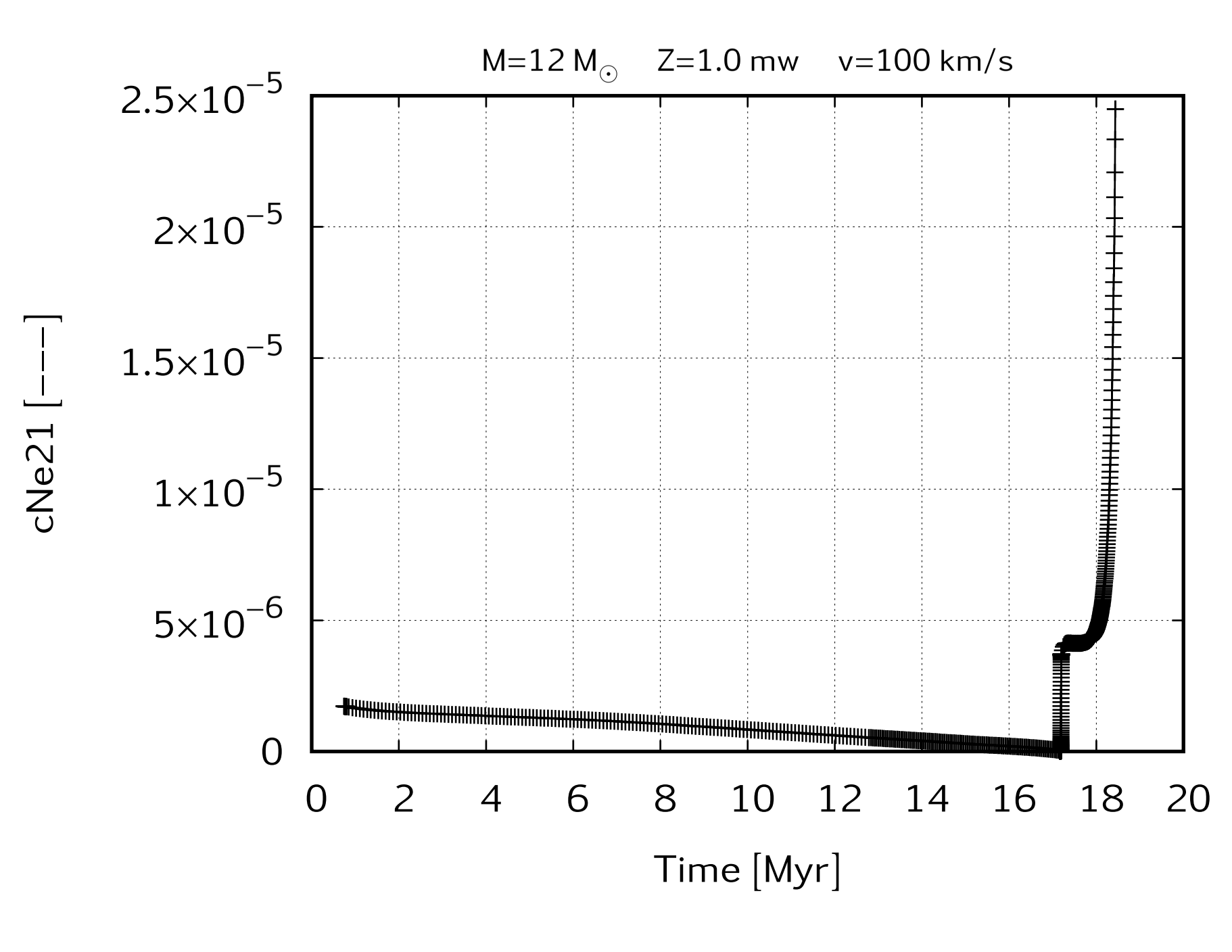

M=12 M⊙ Z=1.0 mw v=100 km/s
cO16 [---]
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

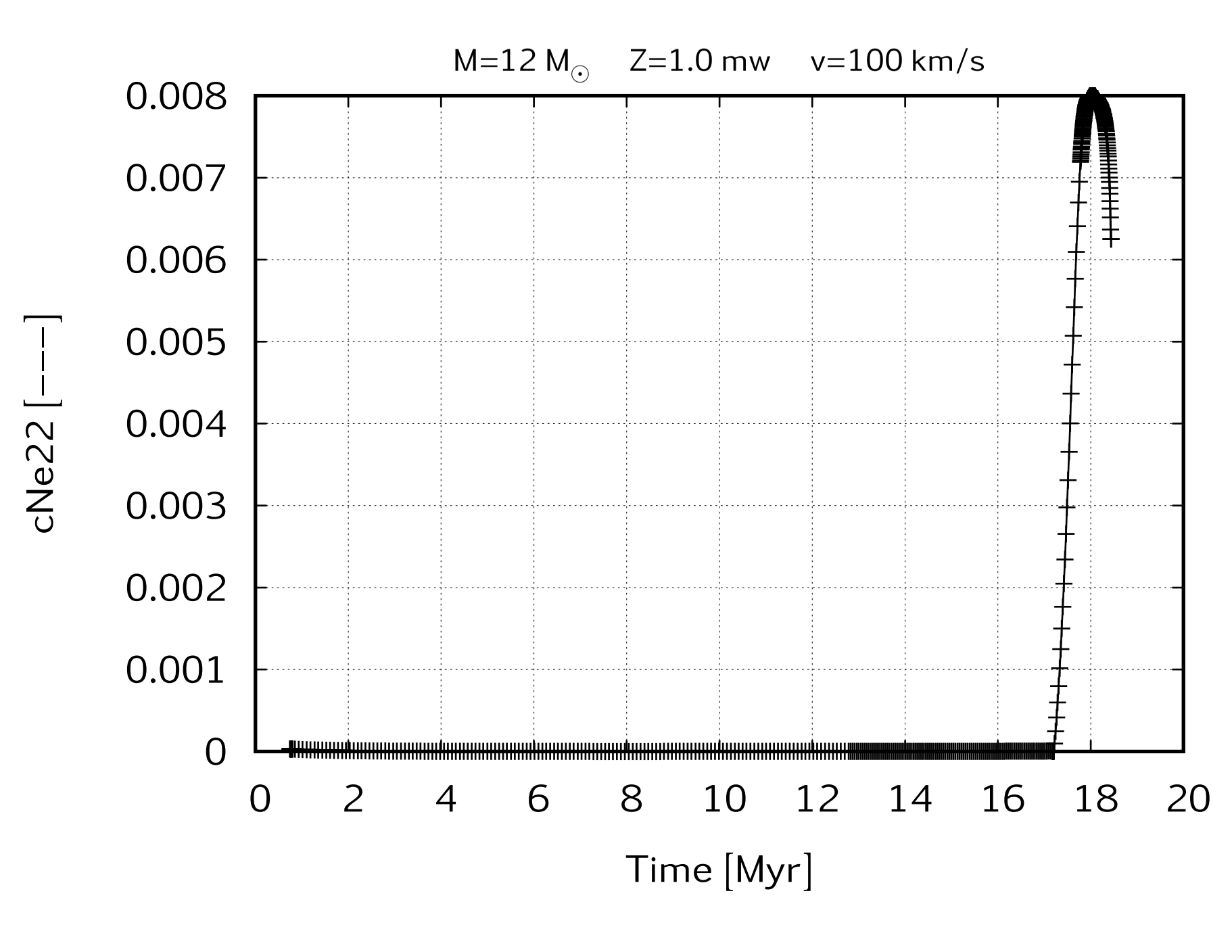

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
5×10−5
0
cO17 [−−−]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

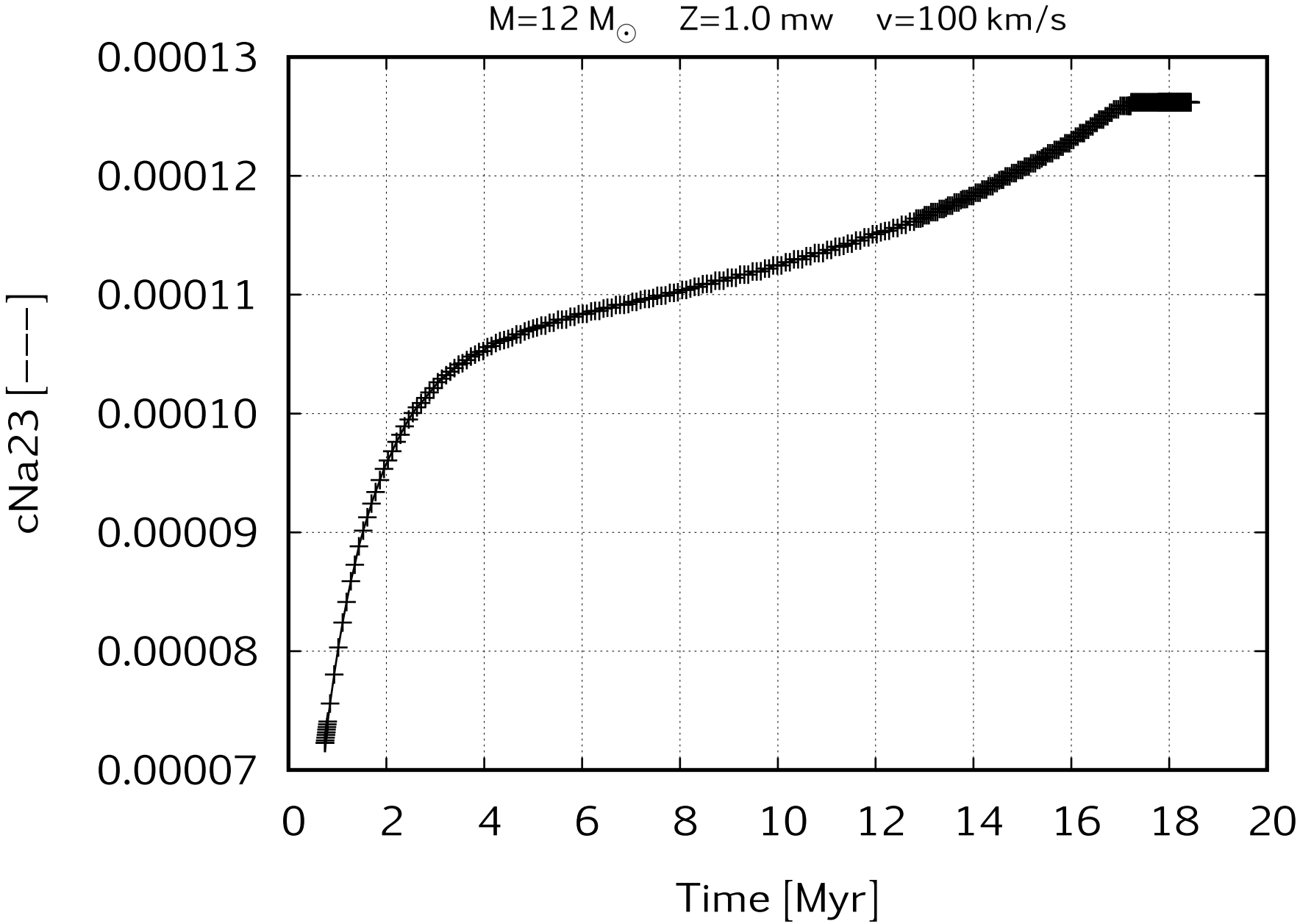

M=12 M⊙ Z=1.0 mw v=100 km/s
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
cO18 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

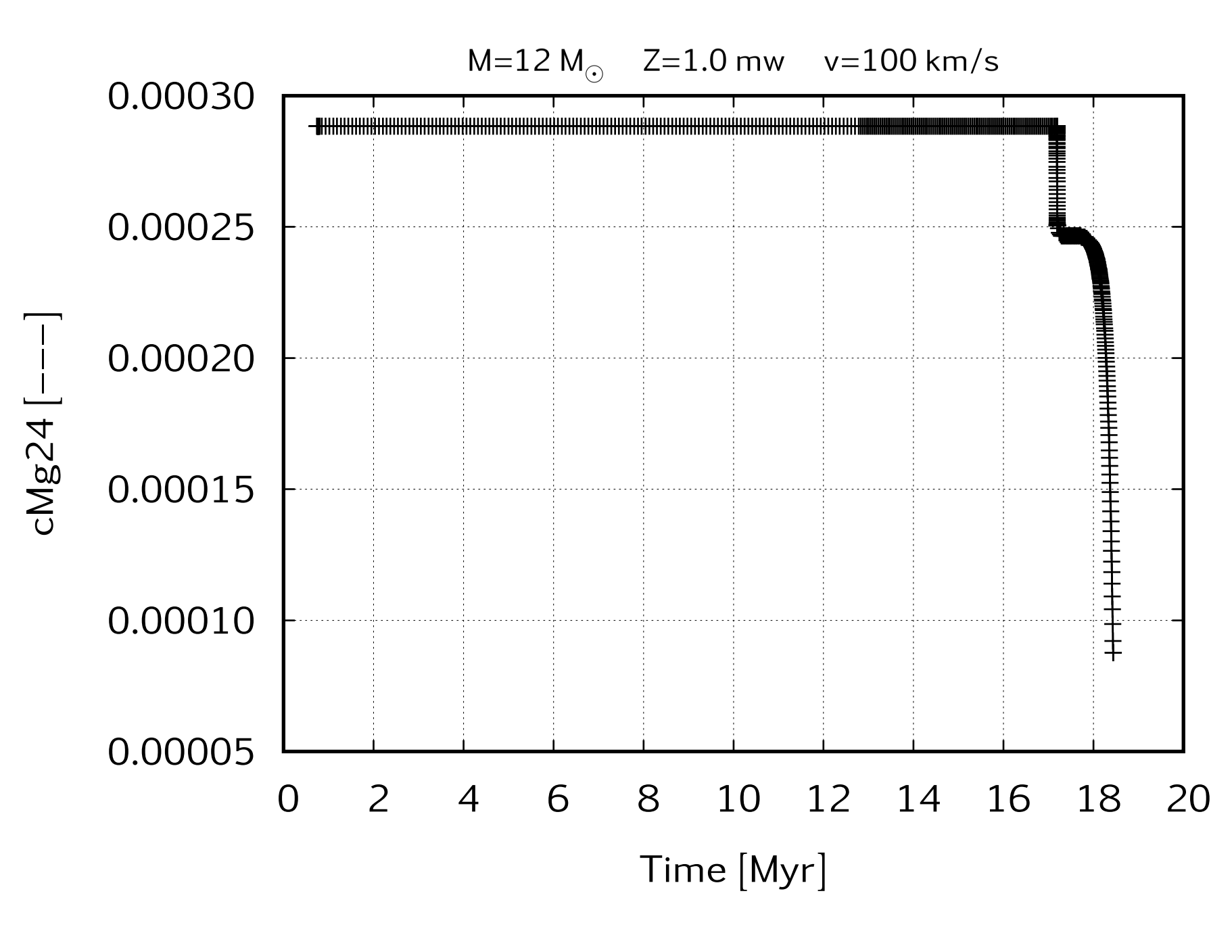

M=12 M⊙ Z=1.0 mw v=100 km/s
3×10−9
2.5×10−9
2×10−9
1.5×10−9
1×10−9
5×10−10
0
cF19 [−−−]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

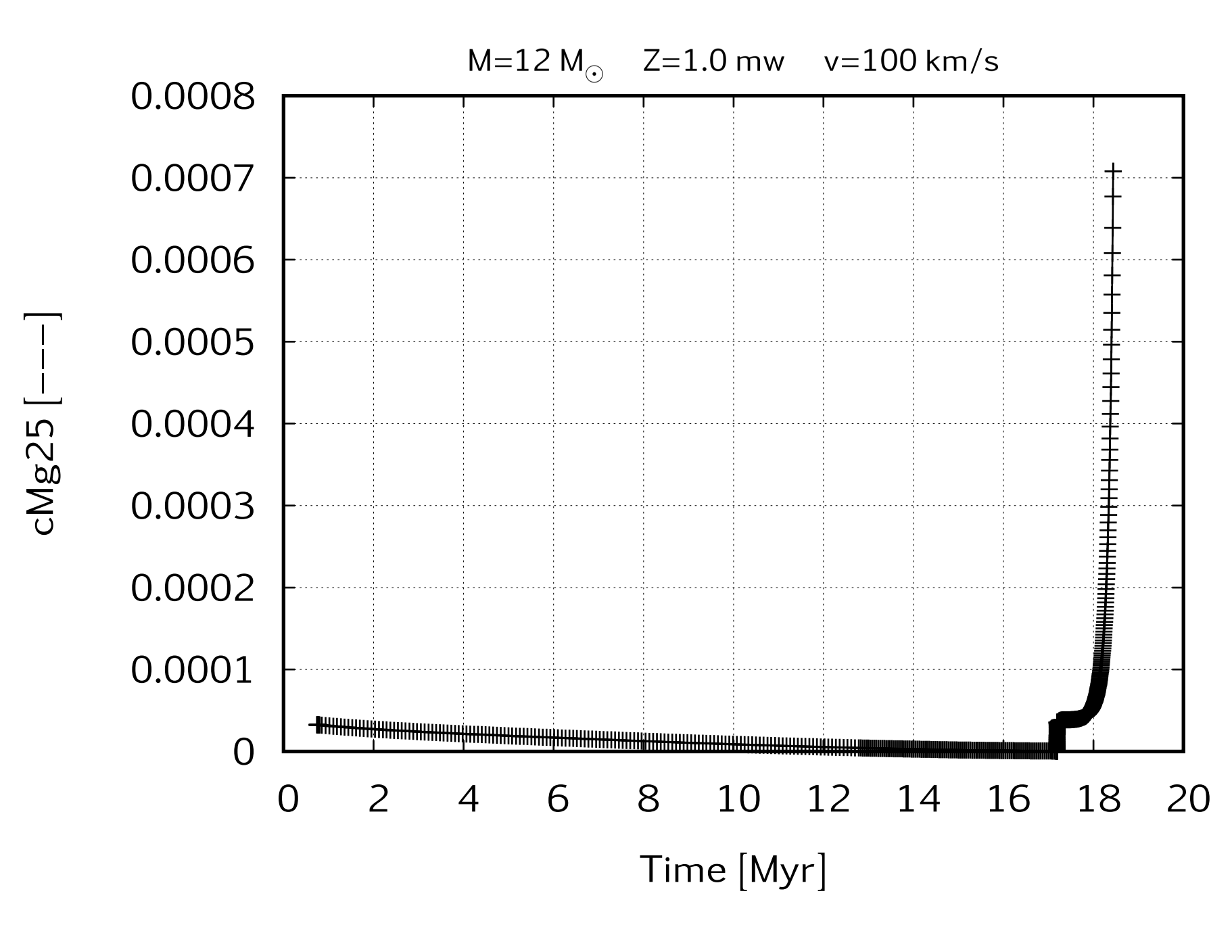

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
cNe20 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

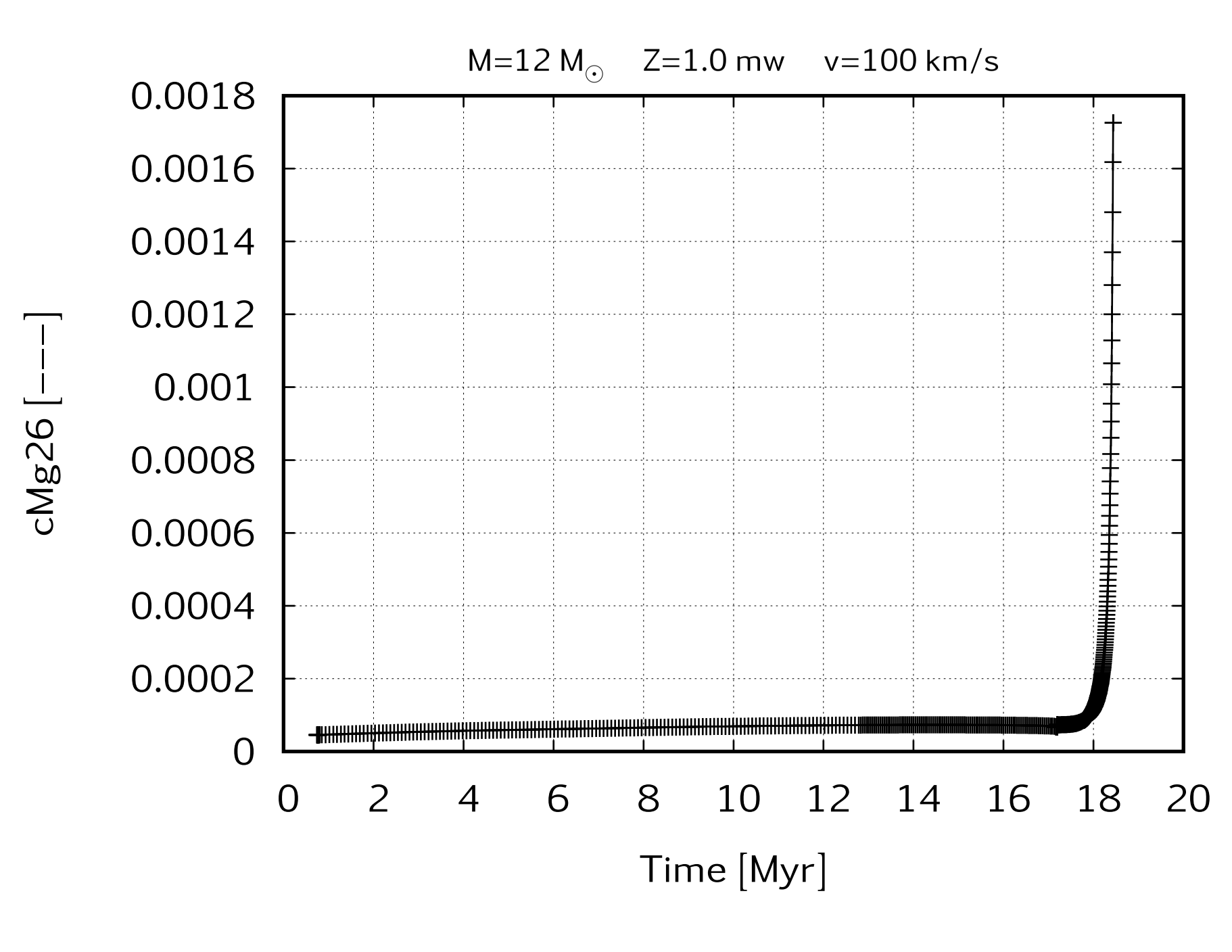

M=12 M⊙ Z=1.0 mw v=100 km/s
2.5×10−5
2×10−5
1.5×10−5
1×10−5
5×10−6
0
cNe21 [—]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

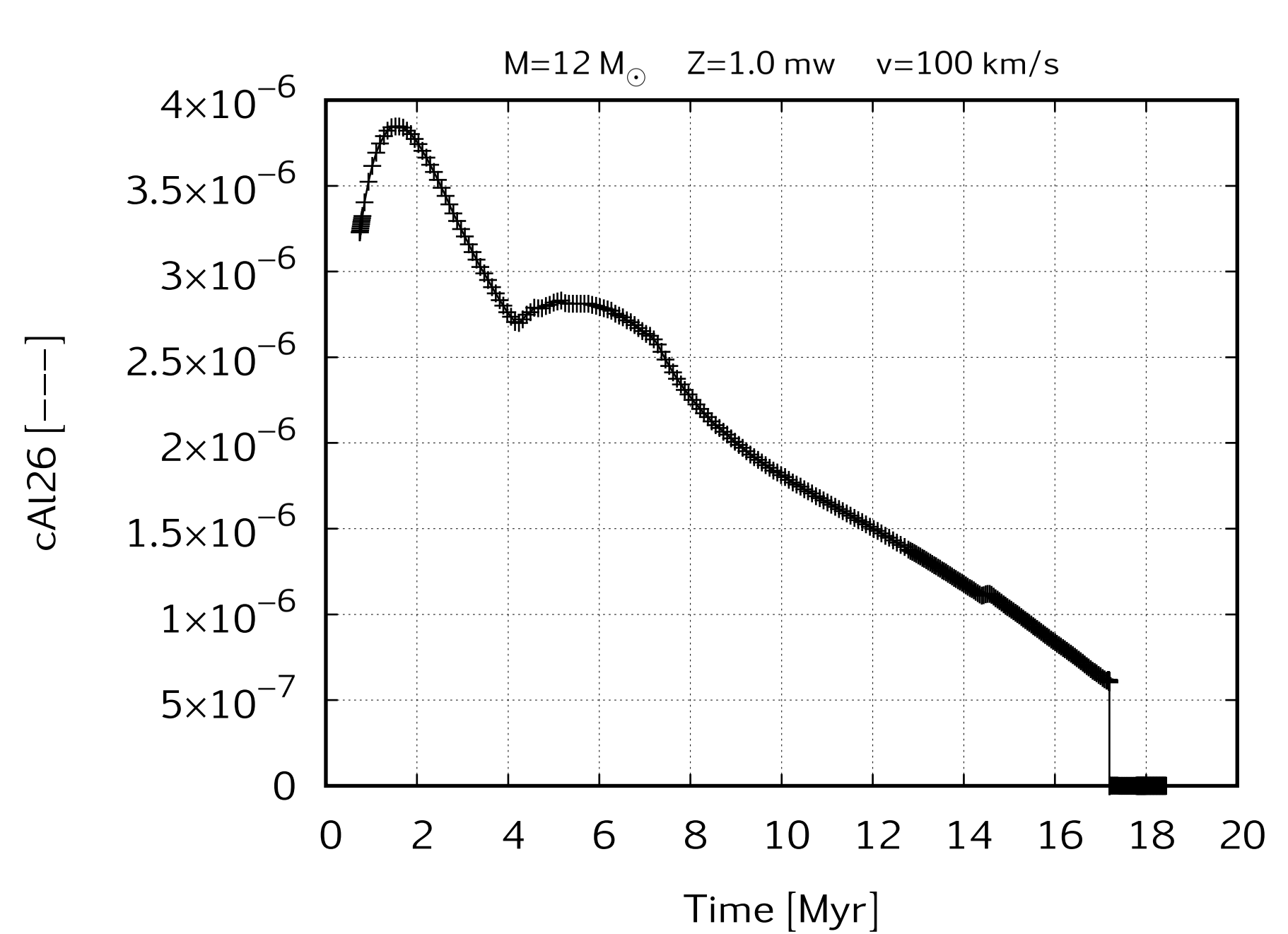

M=12 M⊙ Z=1.0 mw v=100 km/s
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
cNe22 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

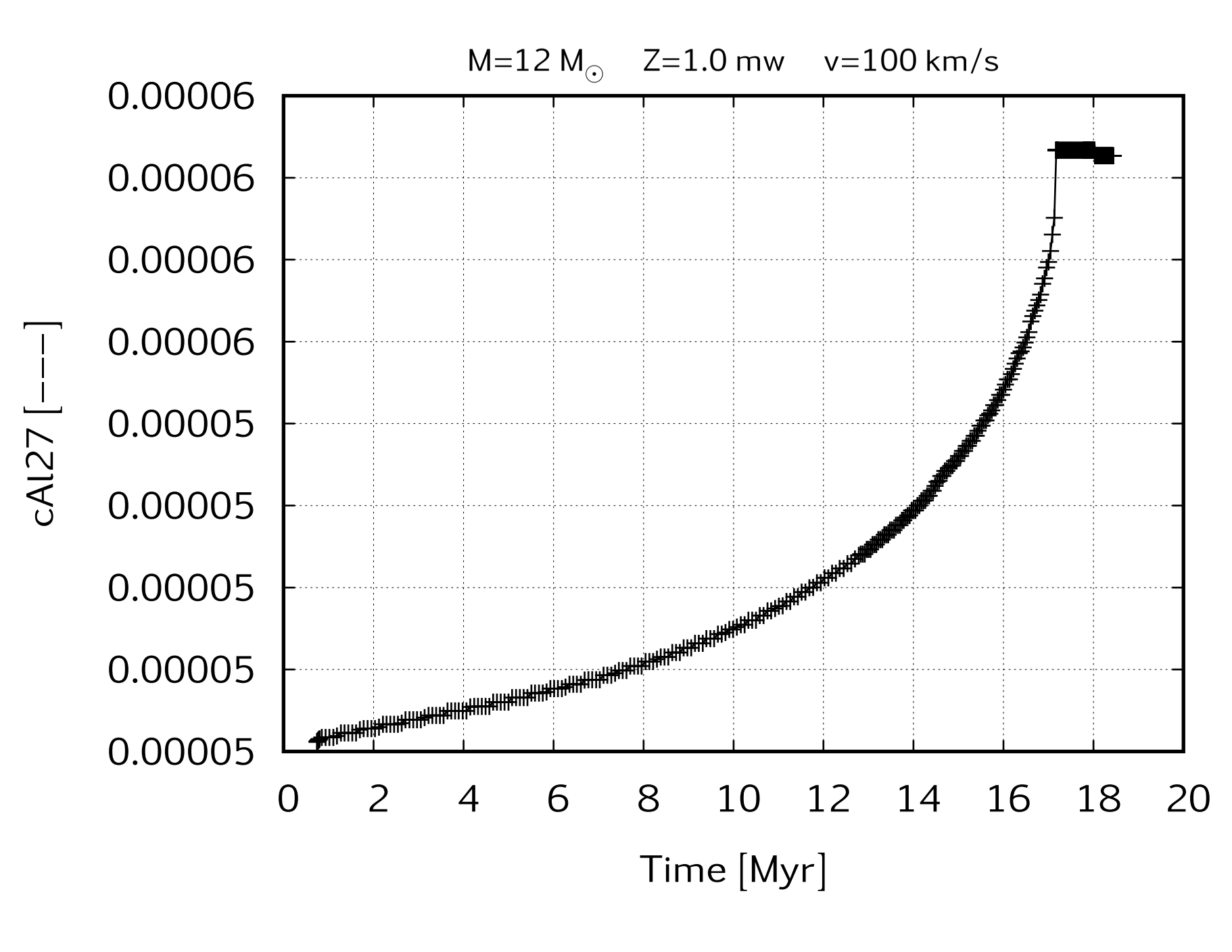

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00013
0.00012
0.00011
0.00010
0.00009
0.00008
0.00007
cNa23 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

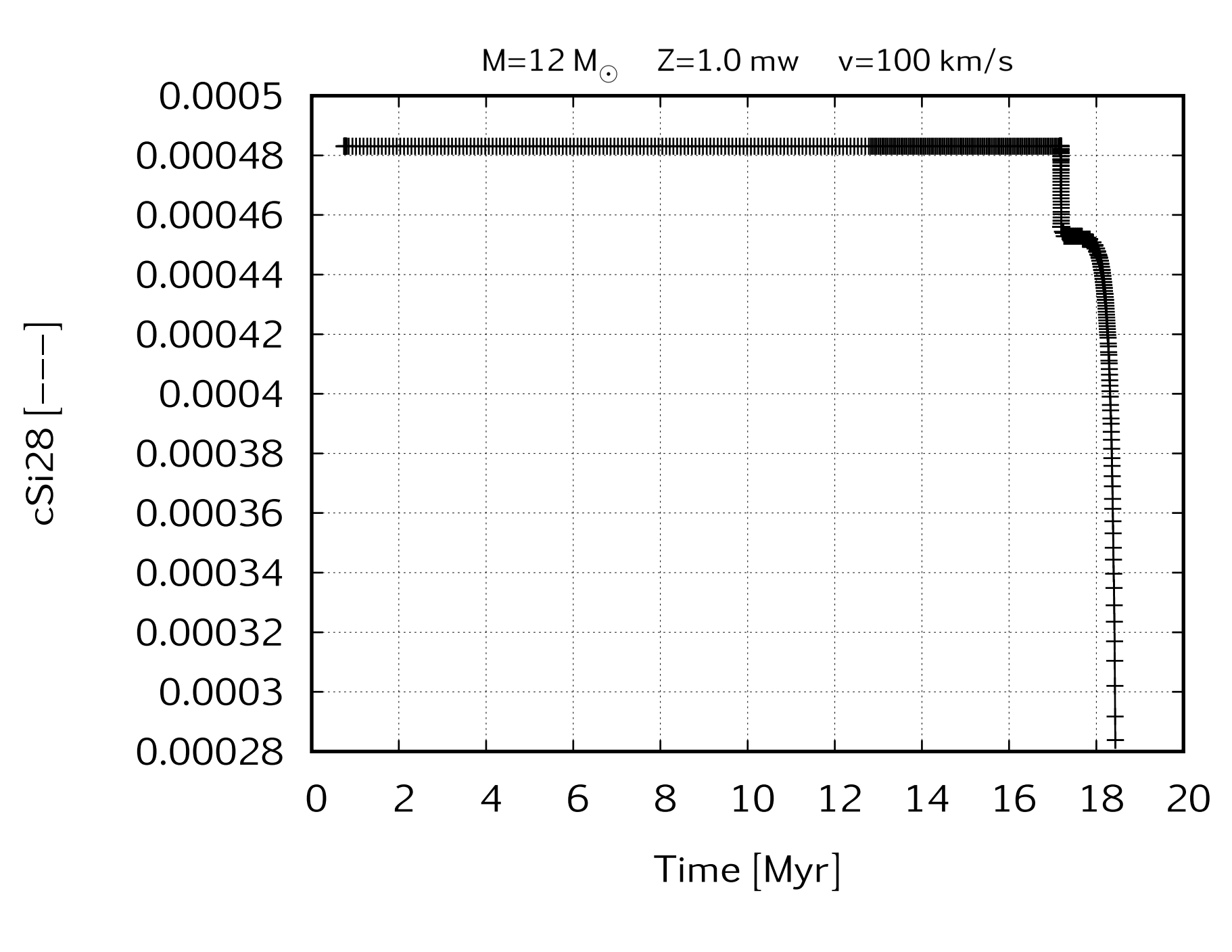

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
cMg24 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

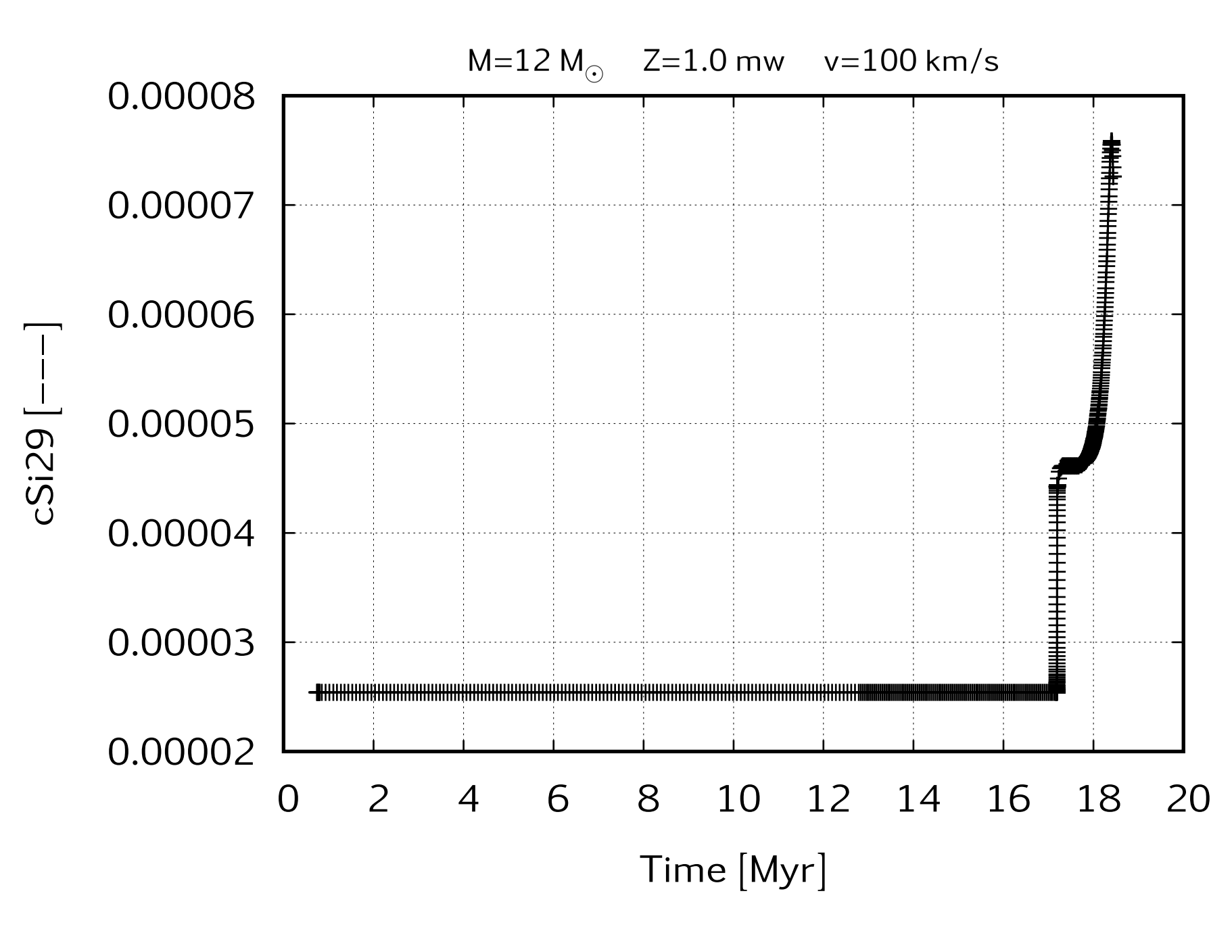

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
cMg25 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

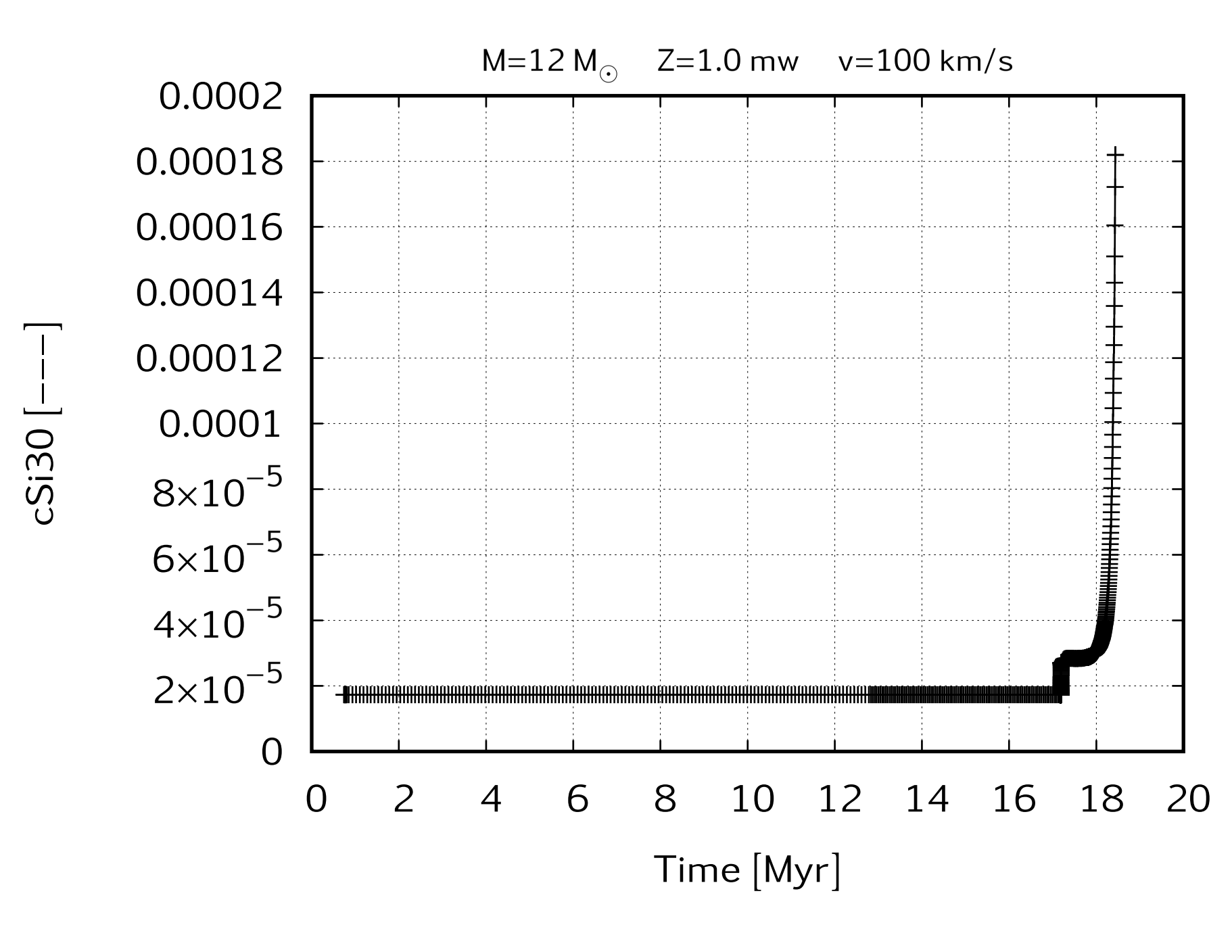

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
cMg26 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

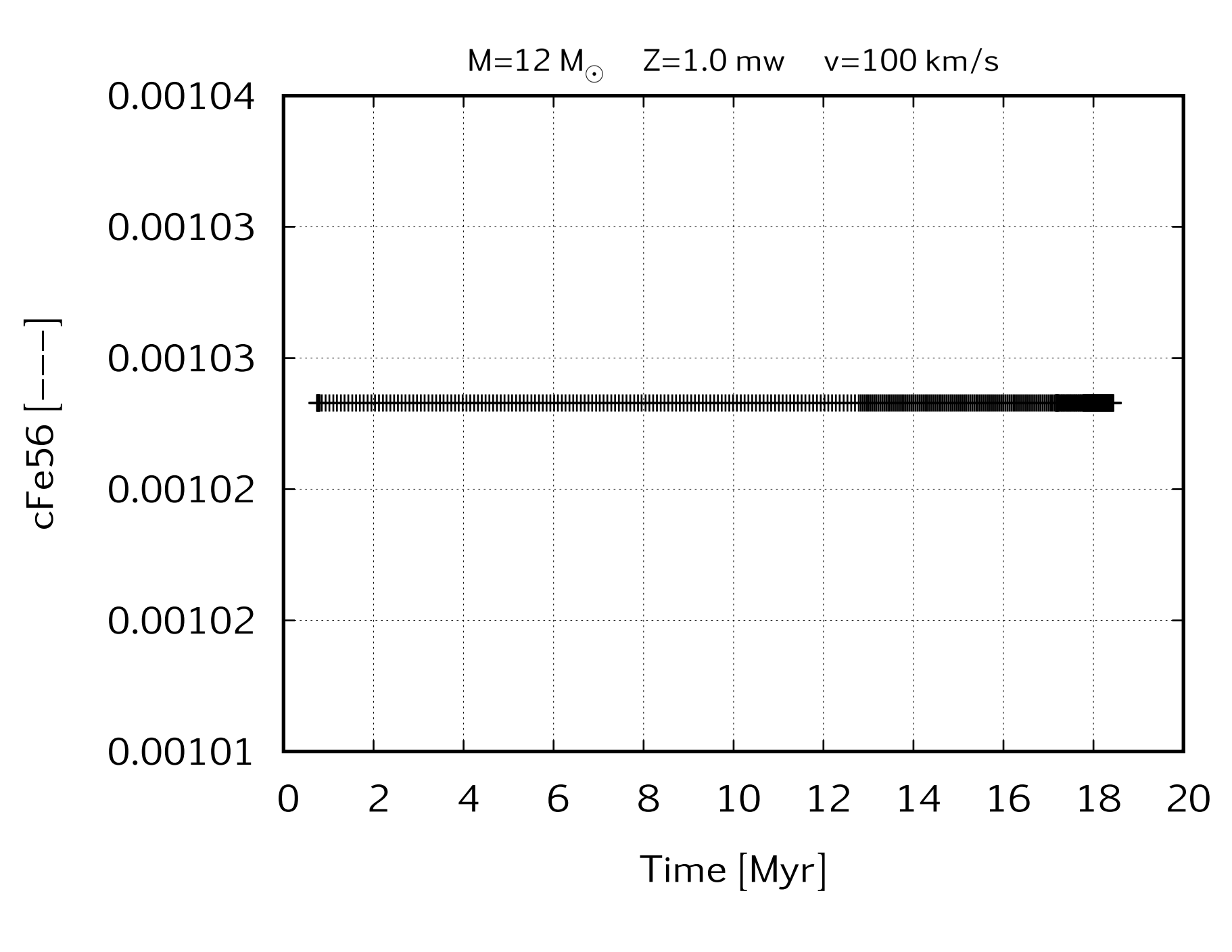

M=12 M⊙ Z=1.0 mw v=100 km/s
cAl26 [---]
4×10−6
3.5×10−6
3×10−6
2.5×10−6
2×10−6
1.5×10−6
1×10−6
5×10−7
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

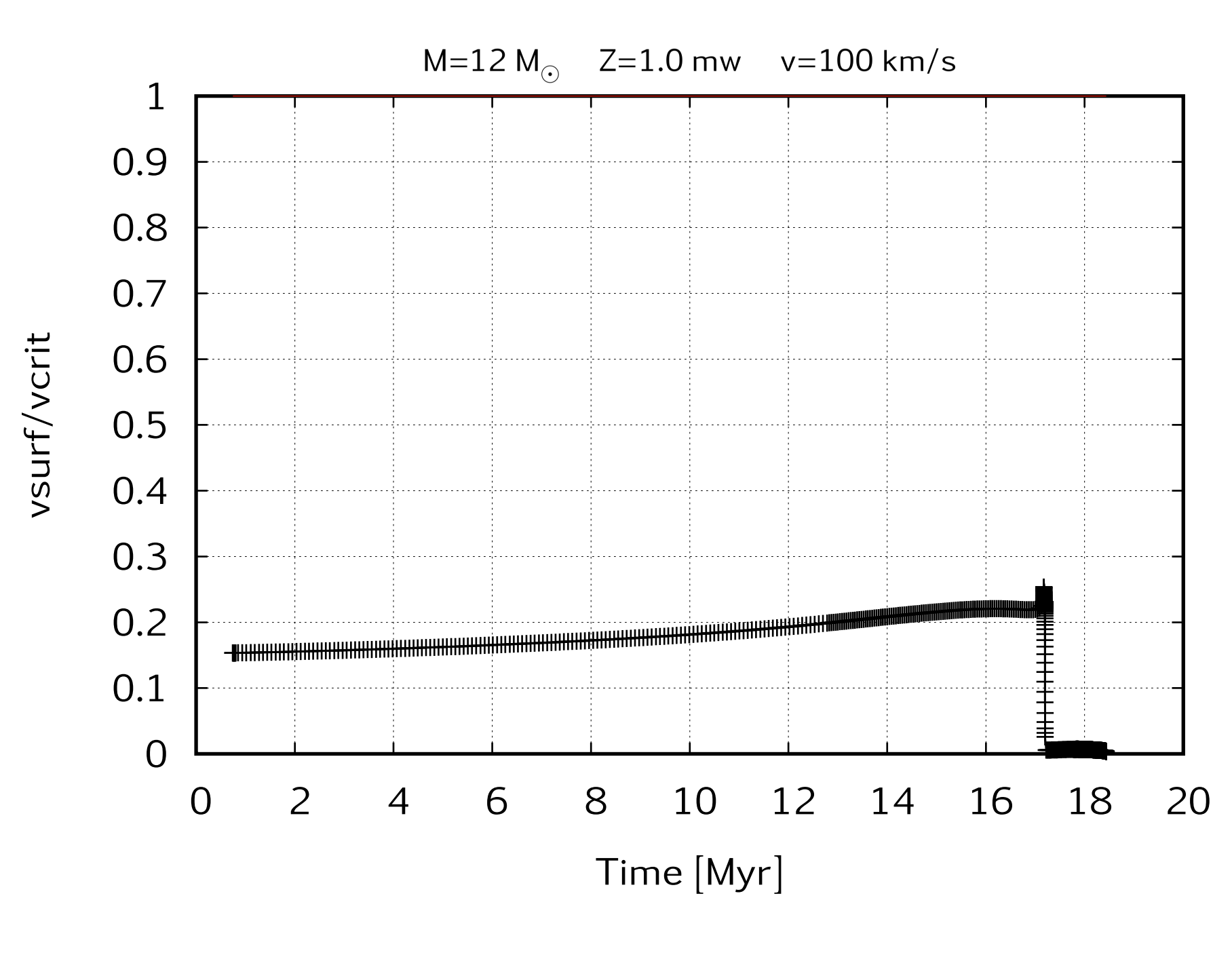

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00006
0.00006
0.00006
0.00006
0.00005
0.00005
0.00005
0.00005
cAl27 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

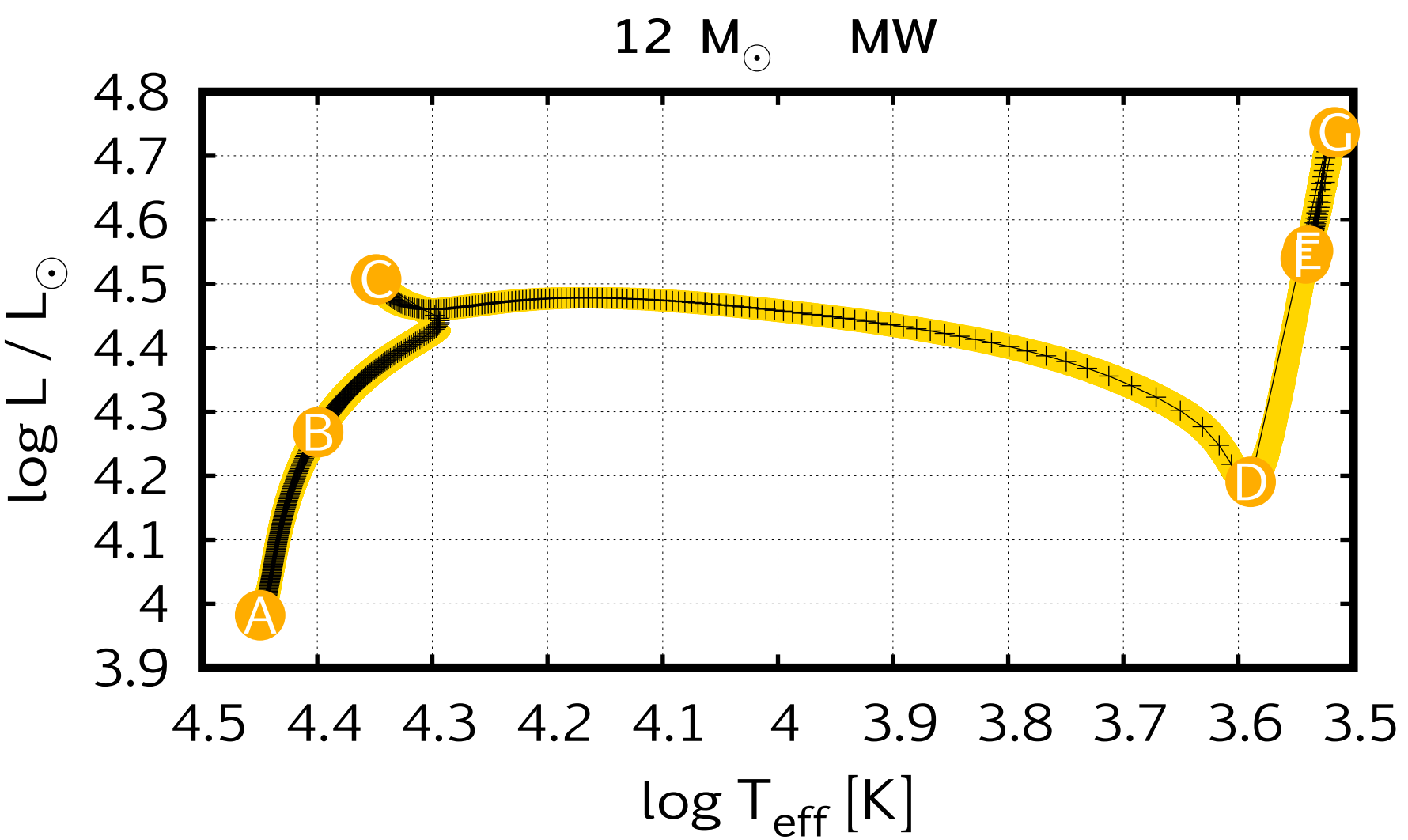

M=12 M⊙ Z=1.0 mw v=100 km/s
0.0005
0.00048
0.00046
0.00044
0.00042
0.0004
0.00038
0.00036
0.00034
0.00032
0.0003
0.00028
cSi28 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

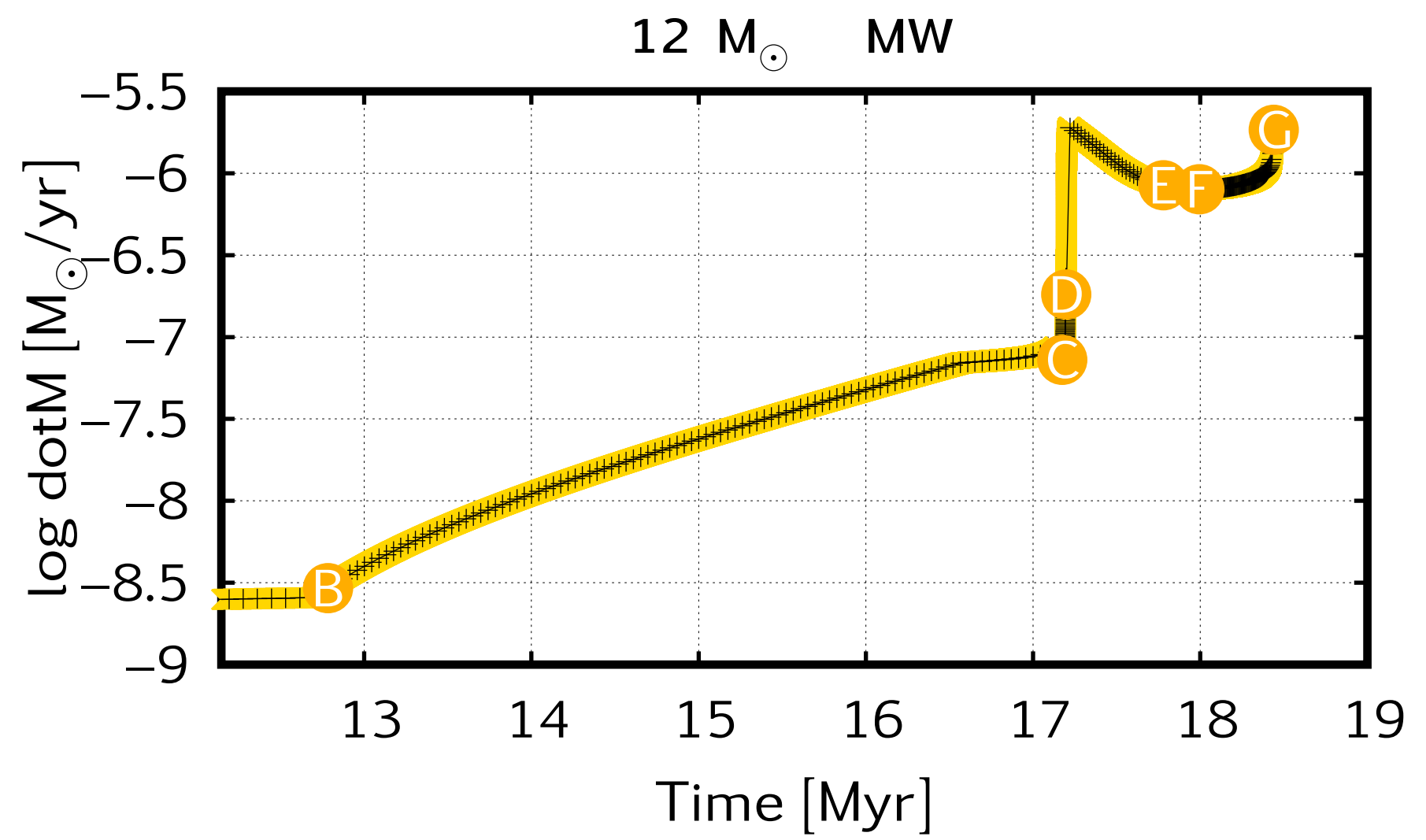

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00008
0.00007
0.00006
0.00005
0.00004
0.00003
0.00002
cSi29 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]

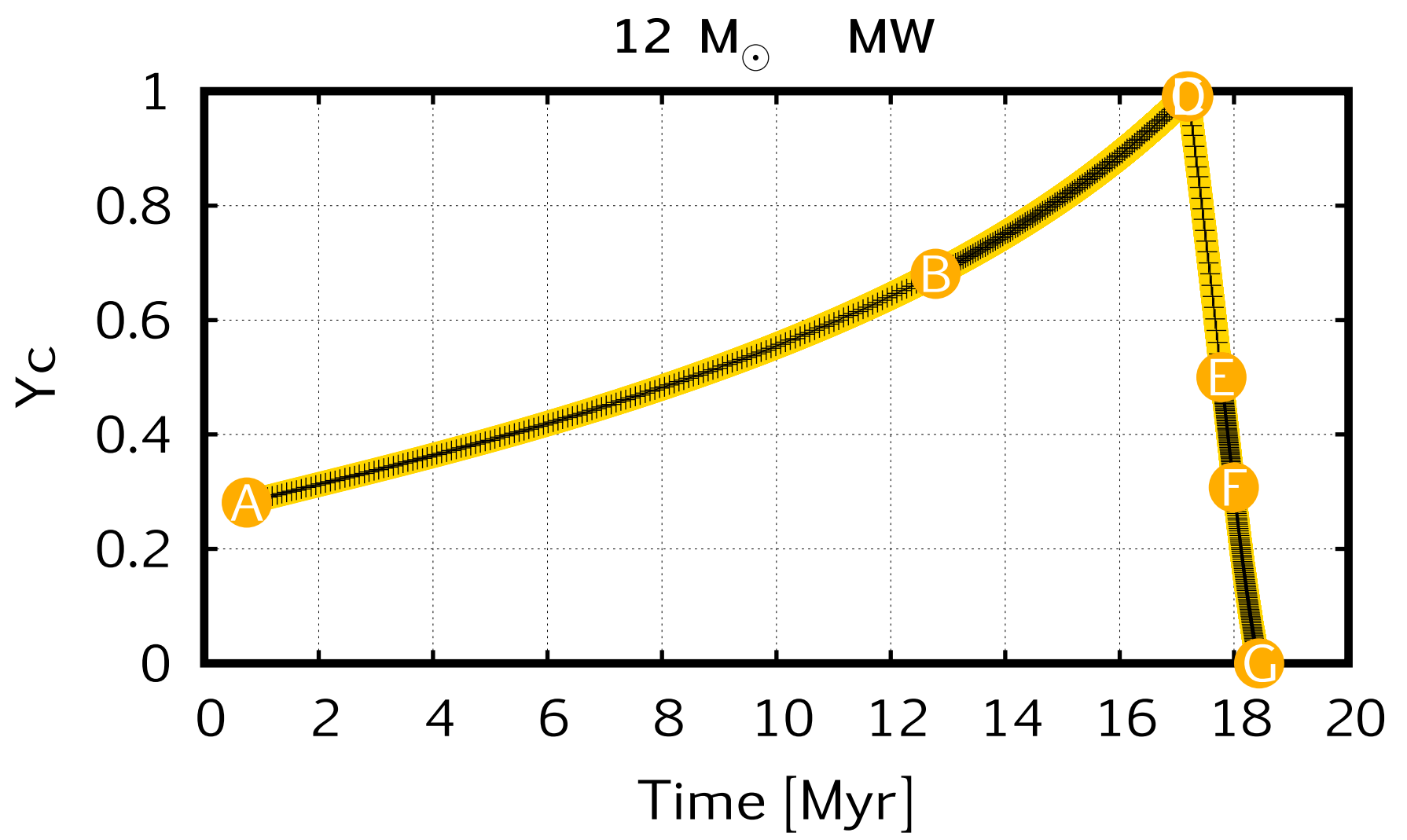

M=12 M⊙ Z=1.0 mw v=100 km/s
cSi30 [---]
0.0002
0.00018
0.00016
0.00014
0.00012
0.0001
8×10−5
6×10−5
4×10−5
2×10−5
0
0 2 4 6 8 10 12 14 16 18 20
Time [Myr]

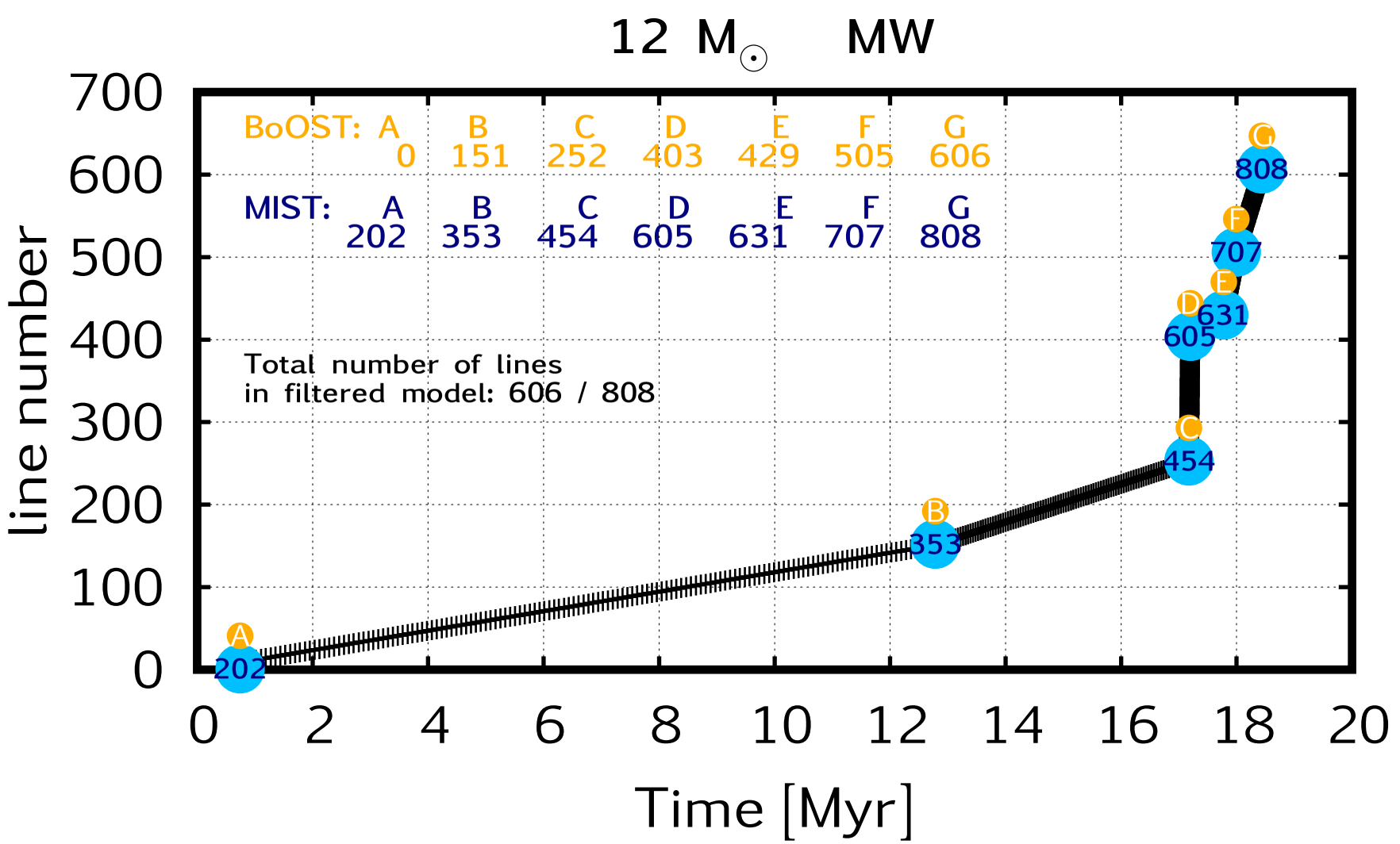

M=12 M⊙ Z=1.0 mw v=100 km/s
0.00104
0.00103
0.00103
0.00102
0.00102
0.00101
cFe56 [---]
0
2
4
6
8
10
12
14
16
18
20
Time [Myr]


M=12 M⊙ Z=1.0 mw v=100 km/s
vsurf/vcrit
Time [Myr]
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
2
4
6
8
10
12
14
16
18
20


12 M⊙ MW
log L / L⊙
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4
3.9
A
B
C
D
E
G
4.5
4.4
4.3
4.2
4.1
4
3.9
3.8
3.7
3.6
3.5
log T_eff [K]


12 M⊙ MW
log dotM [M⊙/yr]
−5.5
−6
−6.5
−7
−7.5
−8
−8.5
−9
13
14
15
16
17
18
19
Time [Myr]
B
C
D
E
F
G


12 M⊙ MW
Yc
Time [Myr]
0
0.2
0.4
0.6
0.8
1
0
2
4
6
8
10
12
14
16
18
20
A
B
D
E
F
G


12 M⊙ MW
BoOST: A B C D E F G
0 151 252 403 429 505 606
MIST: A B C D E F G
202 353 454 605 631 707 808
Total number of lines
in filtered model: 606 / 808
line number
Time [Myr]
0
100
200
300
400
500
600
700
0
2
4
6
8
10
12
14
16
18
20