gplots

MG

Contents

The plots for each ensemble are

- effective mass meff0 from $\langle \phi_0(t)\phi_0(0)\rangle$
- effective mass meff1 from $\langle \phi_1(t)\phi_1(0)\rangle$
  - meff is extracted fitting the correlator as

$$c_1(t) = |A_{1-0}|^2 \exp(-M\frac{T}{2}) \cosh\left(M(t-\frac{T}{2})\right)$$

- Two particle energy for $\langle \phi_0^2(t)\phi_0^2(0)\rangle$
- Two particle energy for $\langle \phi_1^2(t)\phi_1^2(0)\rangle$
- Two particle energy for $\langle \phi^2(t)\phi^{*2}(0)\rangle$
  - The two particle energy E_2 is extracted from the correlator

$$c_2(t) = |A_{2-0}|^2 \exp(-E_2\frac{T}{2}) \cosh\left(E_2(t-\frac{T}{2})\right) + |A_{1-1}|^2 \exp(-MT).$$

to remove the extra term $|A_{1-1}|^2 \exp(-MT)$ we take the difference

$$\tilde{c}_2(t) = c(t) - c(t+1) = |A_{2-0}|^2 \exp(-E_2\frac{T}{2}) \sinh\left(E_2(t-\frac{T-1}{2})\right).$$

The third correlator is constructed with the complex field

$$\phi = \phi_0 + i\phi_1$$

- Two particle energy for $\langle \phi_0^3(t)\phi_0^3(0)\rangle$
- Two particle energy for $\langle \phi_1^3(t)\phi_1^3(0)\rangle$
- Two particle energy for $\langle \phi^3(t)\phi^{*3}(0)\rangle$

– The three particle energy E_3 is extracted from the correlator

$$c_3(t) = |A_{3-0}|^2 \exp(-E_3 \frac{T}{2}) \cosh\left(E_3(t-\frac{T}{2})\right) + |A_{2-1}|^2 \exp(-(E_2+M)\frac{T}{2}) \cosh\left((E_2-M)(t-\frac{T}{2})\right).$$

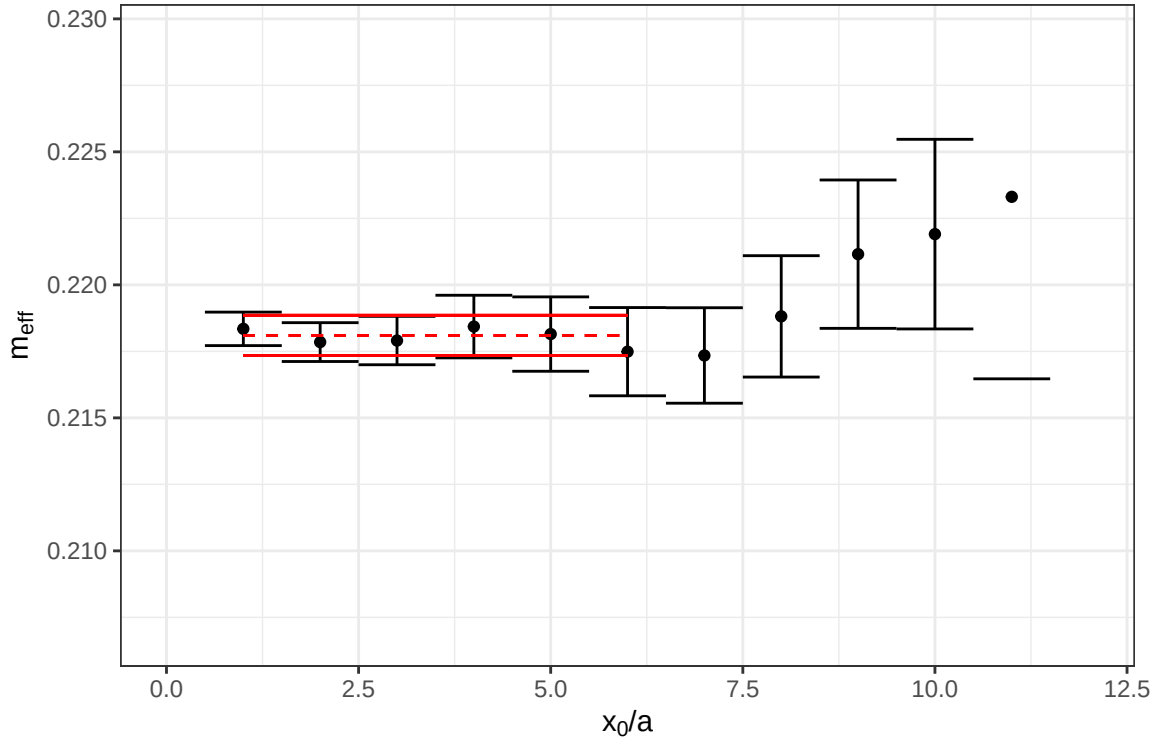
- BH four point function $\langle \phi_0(\frac{T}{2})\phi_0(t)\phi_0(\frac{T}{8})\phi_0(0)\rangle$
- BH four point function $\langle \phi_1(\frac{T}{2})\phi_1(t)\phi_1(\frac{T}{8})\phi_1(0)\rangle$
- BH four point function

$$C_4^{BH} = \frac{\langle \phi_0(\frac{T}{2})\phi_1(t)\phi_1(\frac{T}{8})\phi_0(0)\rangle}{\langle \phi_0(\frac{T}{2})\phi_0(0)\rangle \langle \phi_1(t)\phi_1(\frac{T}{8})\rangle} - 1$$

T 24 L 10 $m_0^2 = -4.9$ $m_1^2 = -4.9$ $\lambda_0^2 = 2.5$ $\lambda_1^2 = 2.5$ $\mu^2 = 5$ $g^2 = 0$ replica = 0

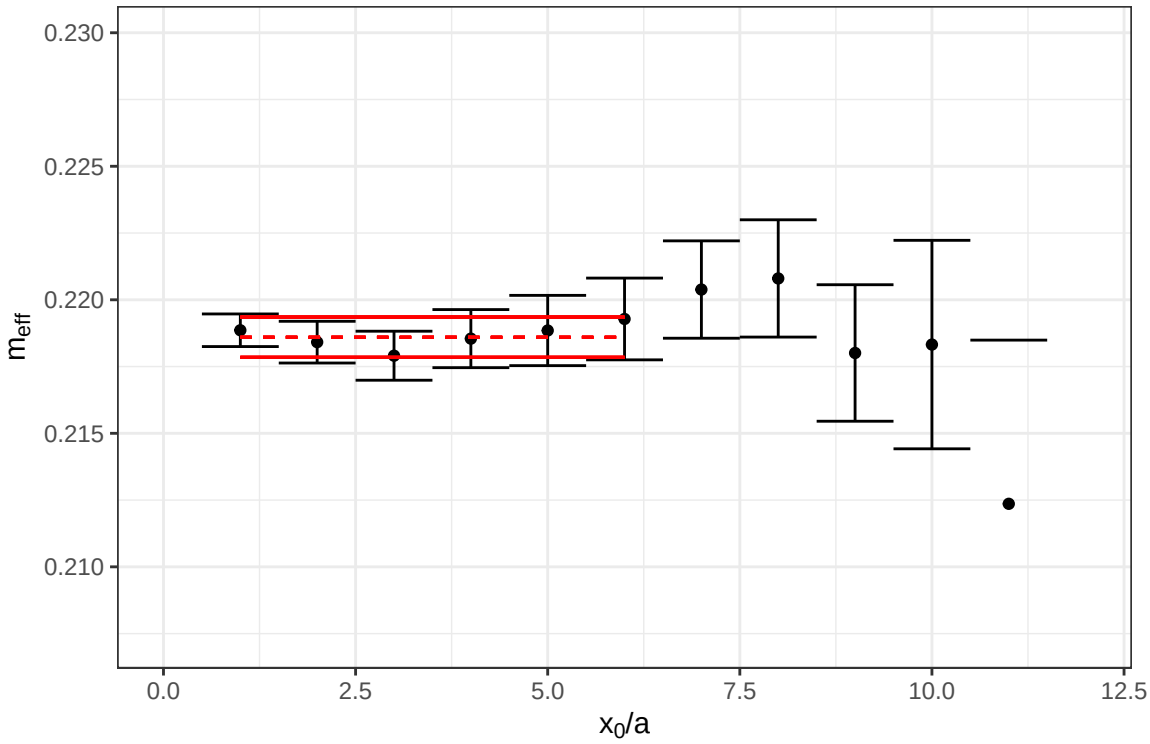
Mass index n= 0

fit: $m_{eff} = 0.218098 \pm 0.000754$



index n= 1

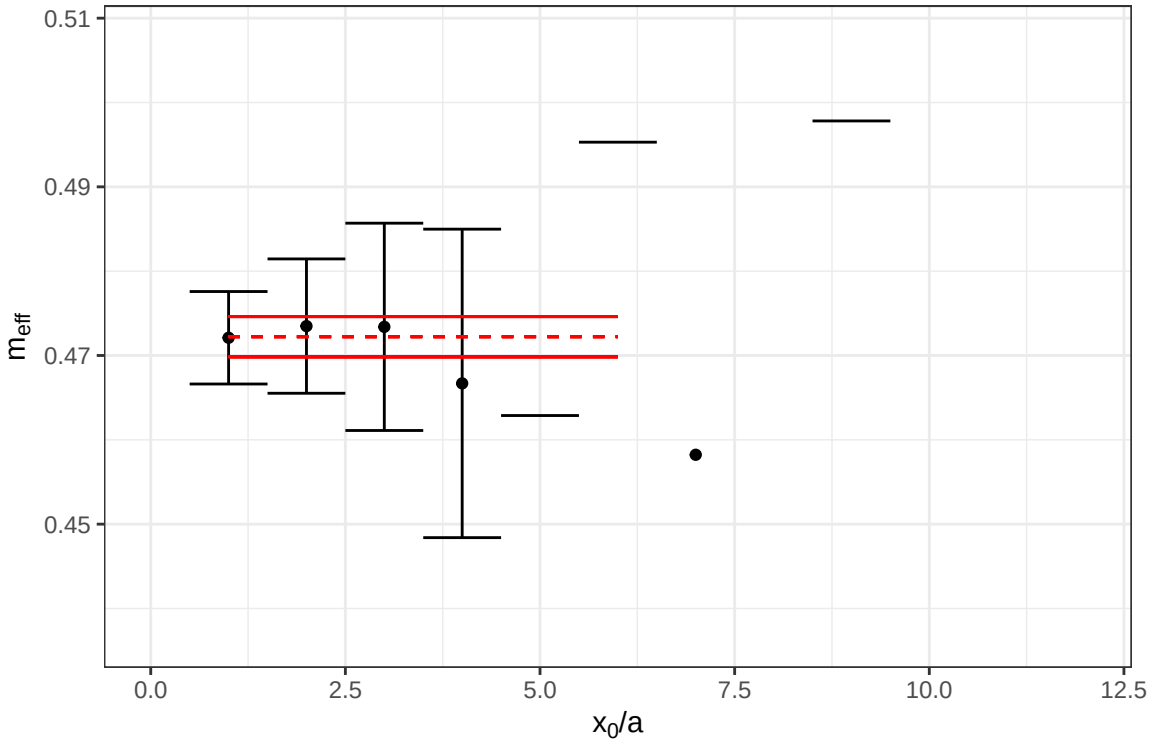
fit: $m_{eff} = 0.218597 \pm 0.000751$



Two particle energy index n= 0

fit: $m_{eff} = 0.472232 \pm 0.002379$

```
Warning: Removed 5 rows containing missing values (geom_point).
```



index n= 1

fit: $m_{eff} = 0.473648 \pm 0.002415$

```
Warning: Removed 3 rows containing missing values (geom_point).
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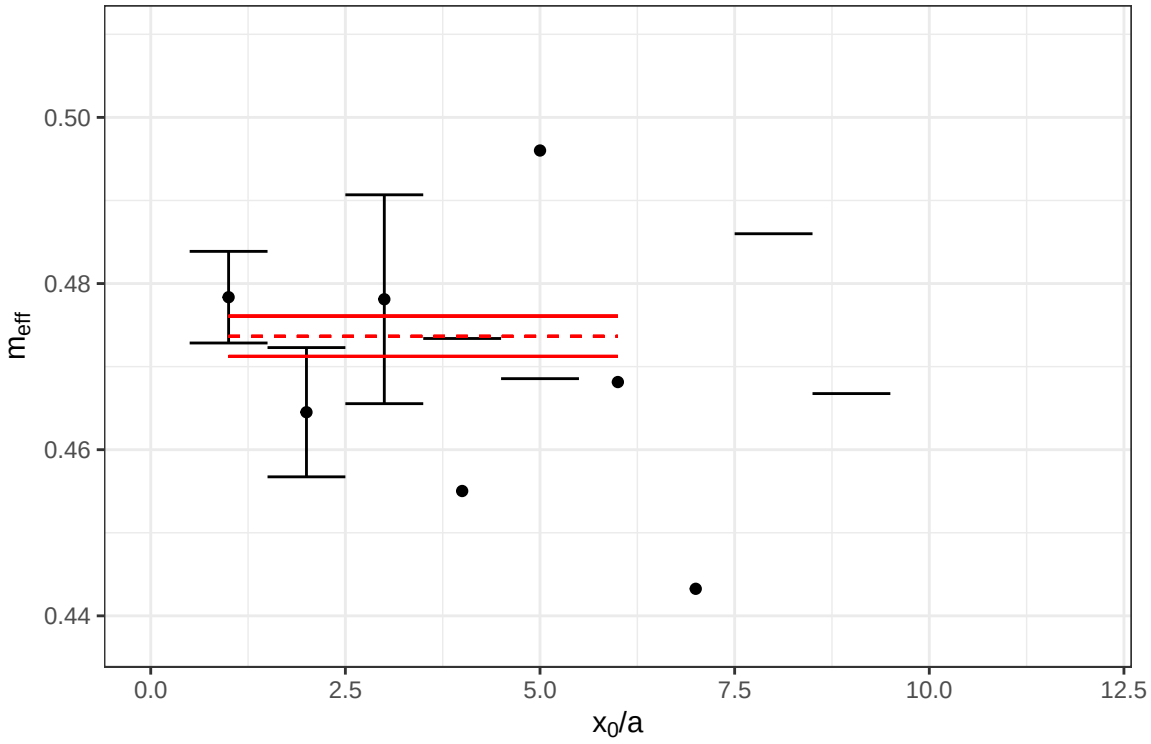

index n= 2

fit: $m_{eff} = 0.460848 \pm 0.001456$

```
Warning: Removed 3 rows containing missing values (geom_point).
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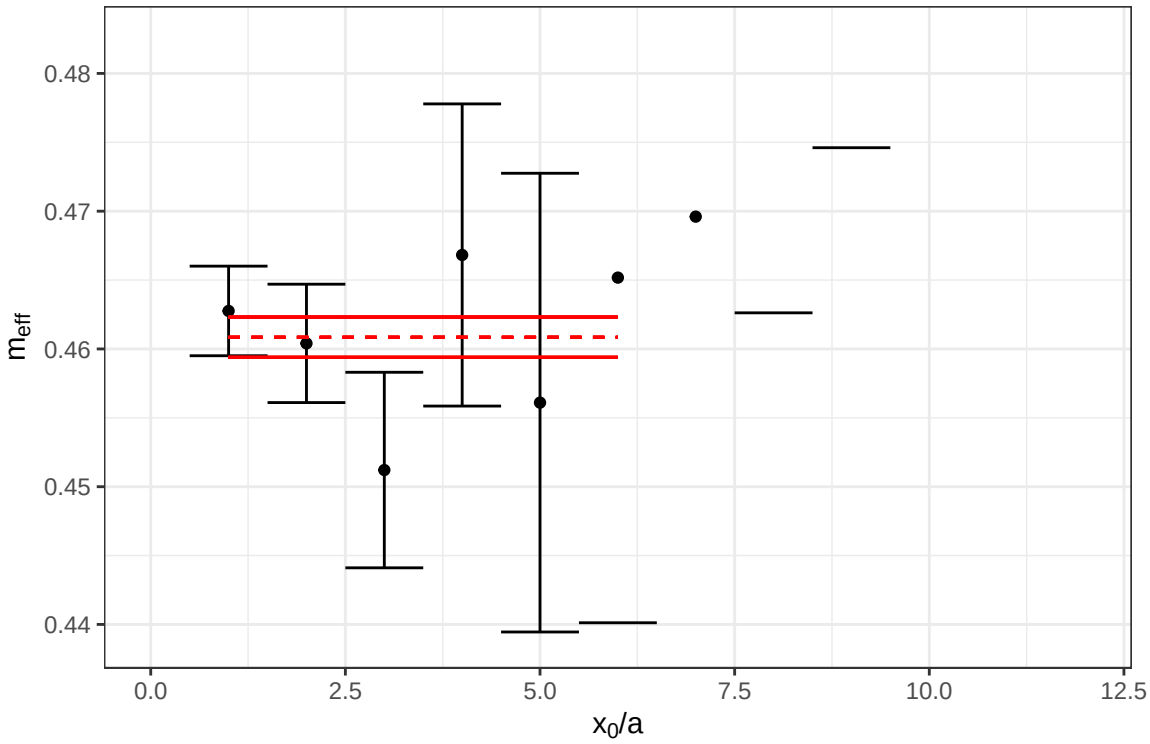
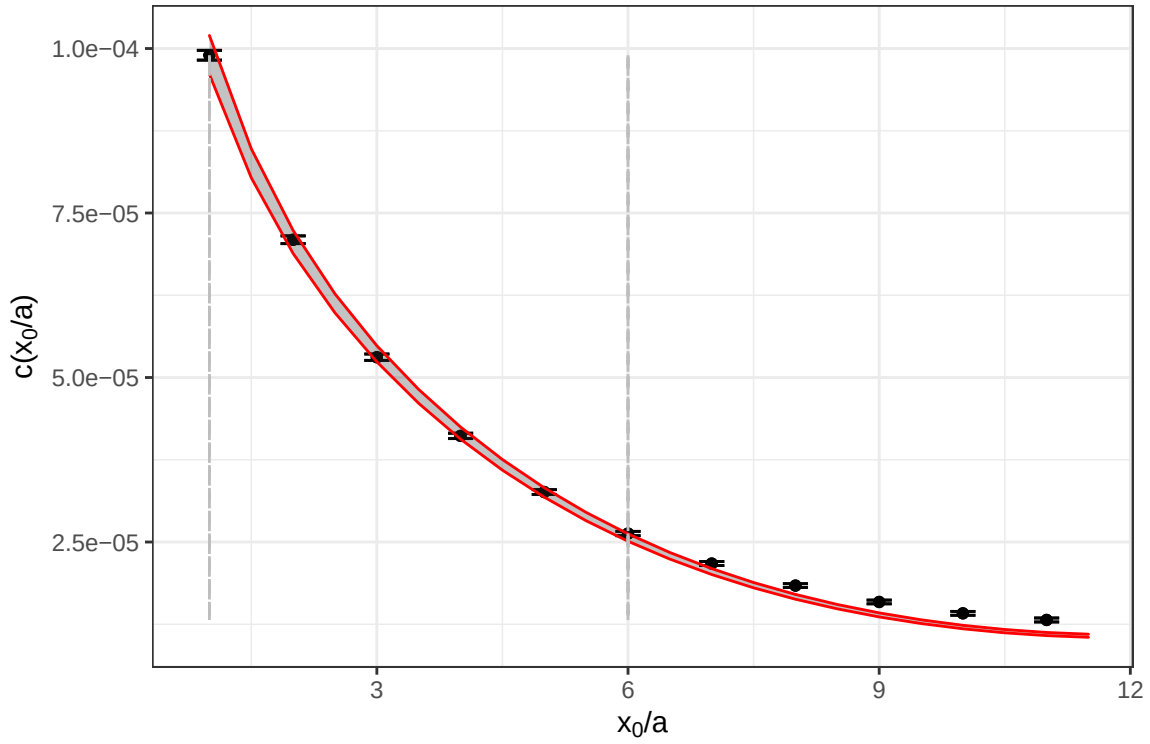


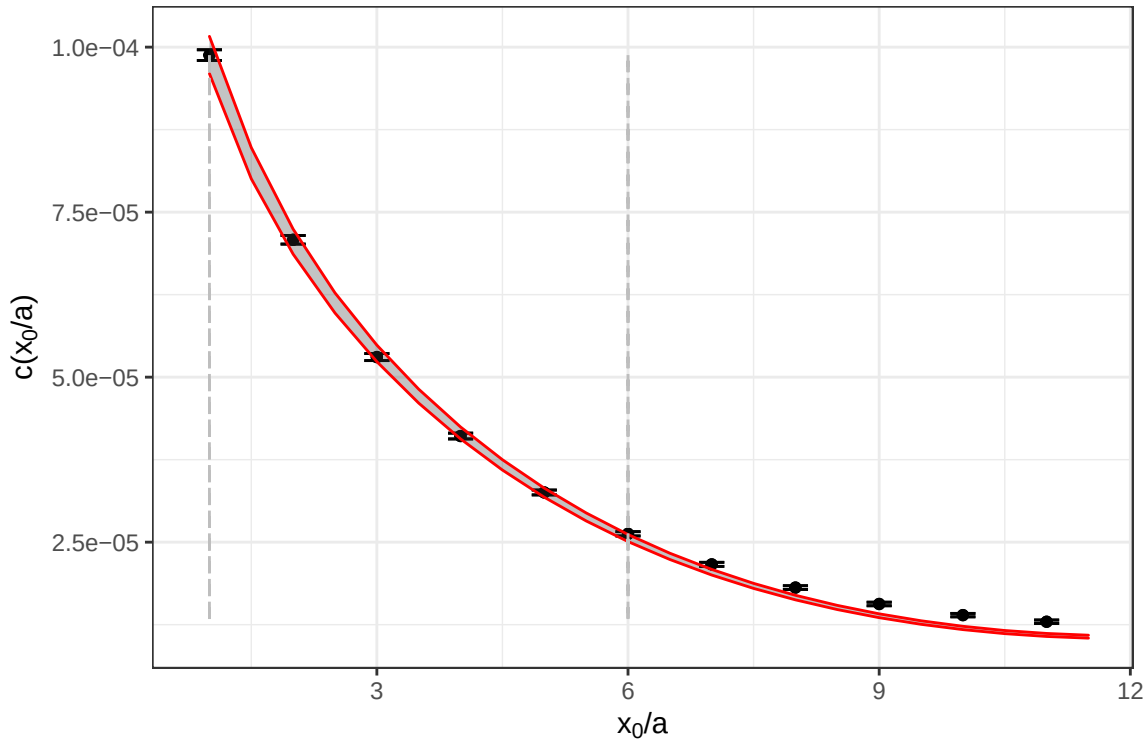
Three particle energy index n= 0

$P[1] = 1.535108 \pm 0.033457$ $P[2] = 0.010274 \pm 0.000414$ $P[3] = 120.925371 \pm 24.577848$



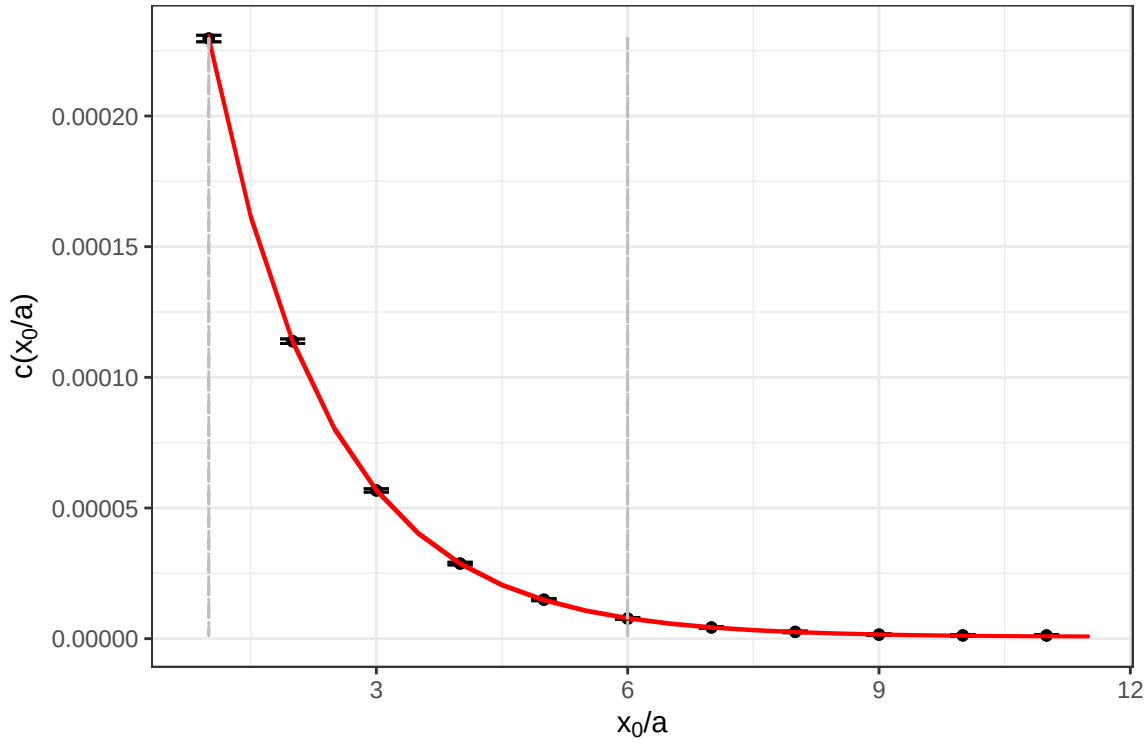
index n= 1

$P[1] = 1.584059 \pm 0.153770$ $P[2] = 0.010297 \pm 0.000341$ $P[3] = 162.139504 \pm 153.138701$



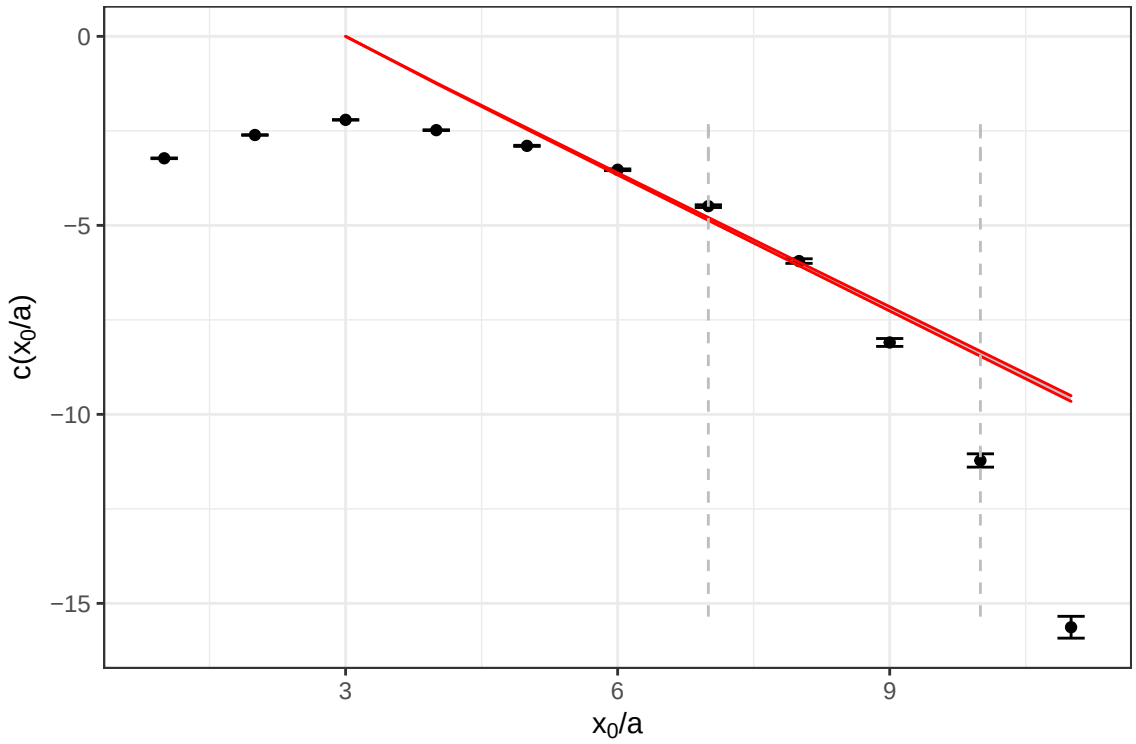
index n= 2

$P[1] = 0.714658 \pm 0.006289$ $P[2] = 0.030312 \pm 0.000079$ $P[3] = 0.220637 \pm 0.046234$



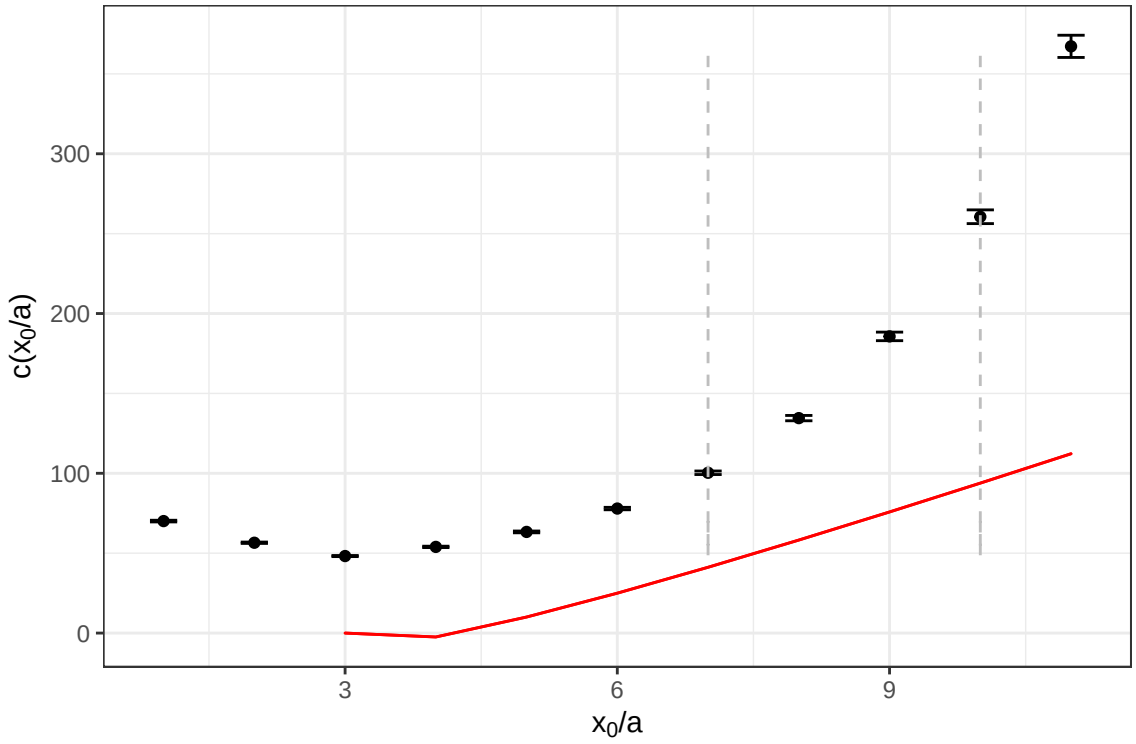
C4_BH index n= 0 #E4_0

$P[1] = -0.107117 \pm 0.000829$



index n= 1 #E4_1

$P[1] = 2.096912 \pm 0.002267$



index n= 2 #E4

$P[1] = -0.002149 \pm 0.000362$

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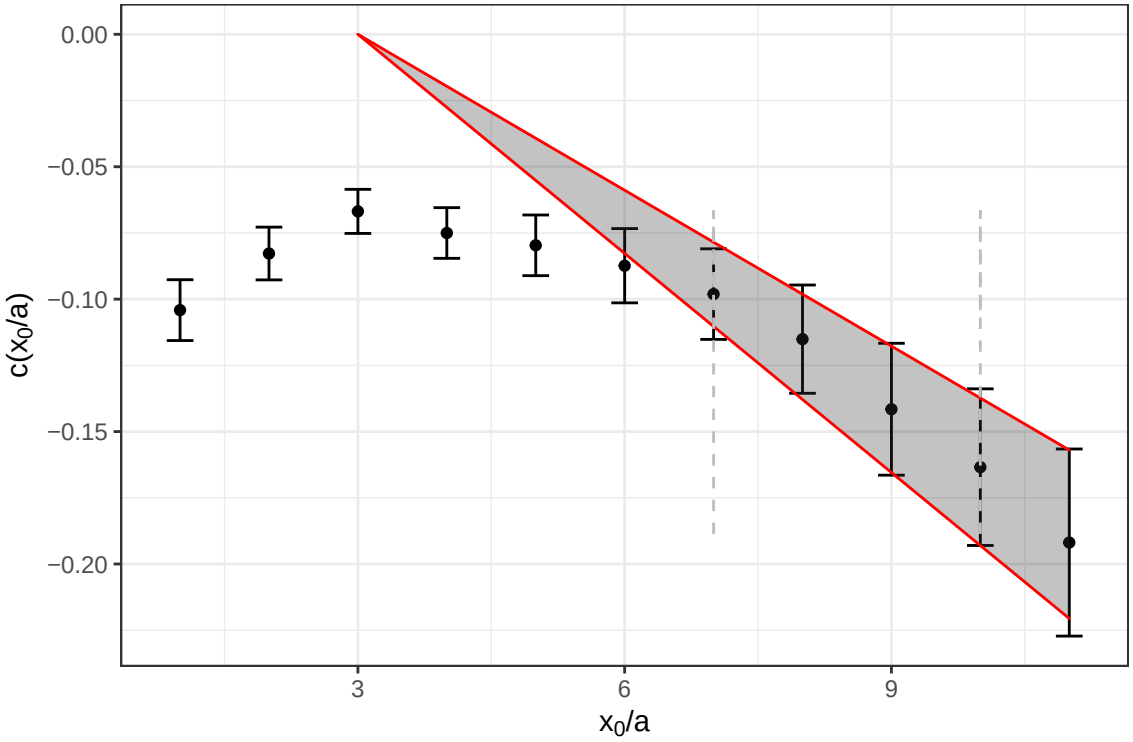
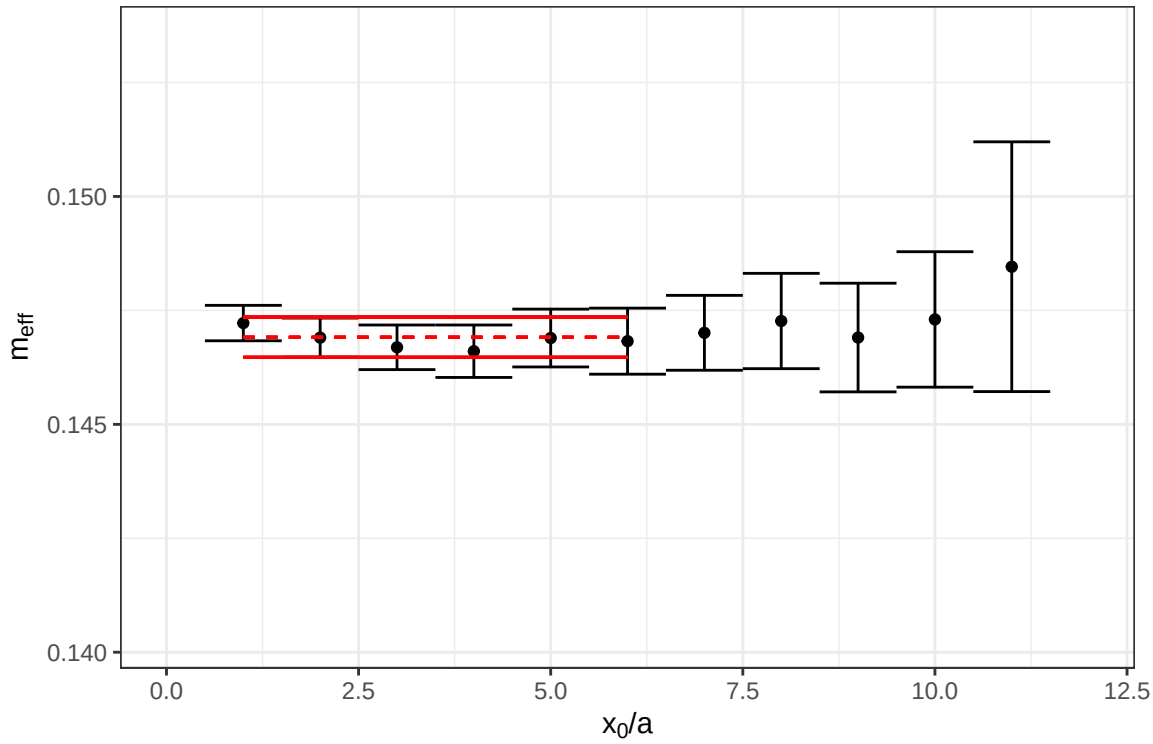
Warning in `[<-.data.frame`(`*tmp*`, count + 1, , value = list(10, 24,
0.218097521263747, : provided 41 variables to replace 31 variables
```



T 24 L 10 $m_0^2 = -4.95$ $m_1^2 = -4.9$ $\lambda_0^2 = 2.5$ $\lambda_1^2 = 2.5$ $\mu^2 = 5$ $g^2 = 0$ **replica = 0**

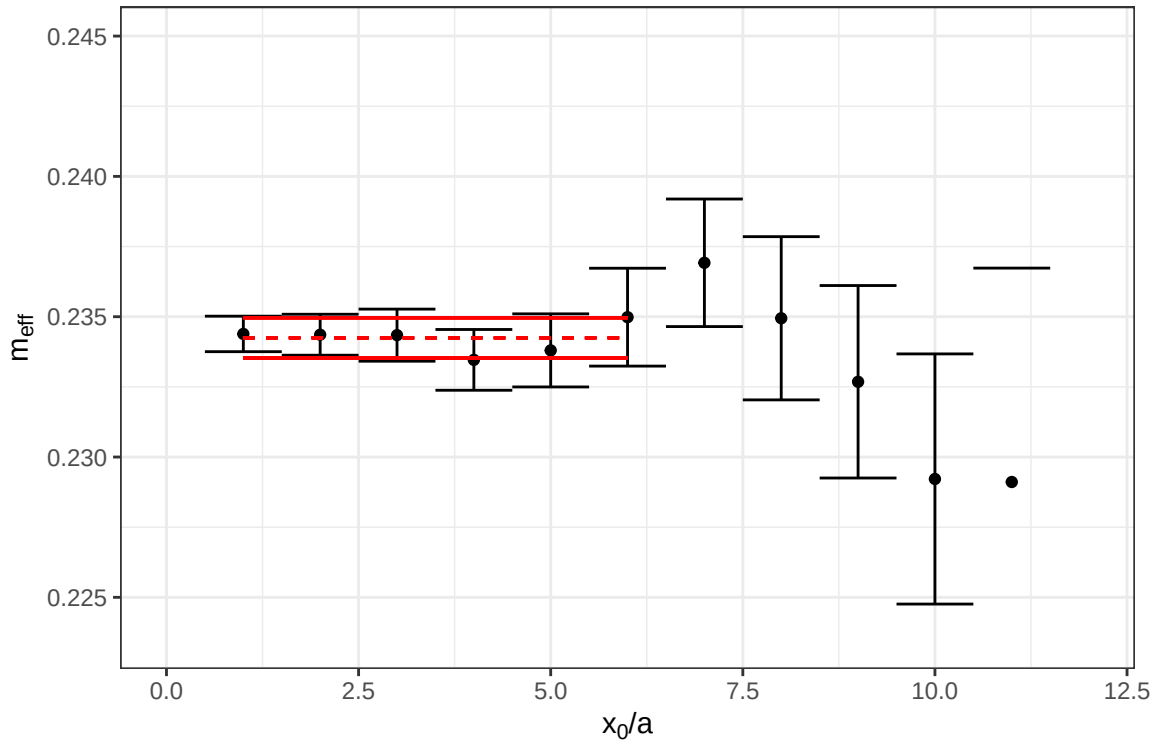
Mass index n= 0

fit: $m_{eff} = 0.146911 \pm 0.000440$



index n= 1

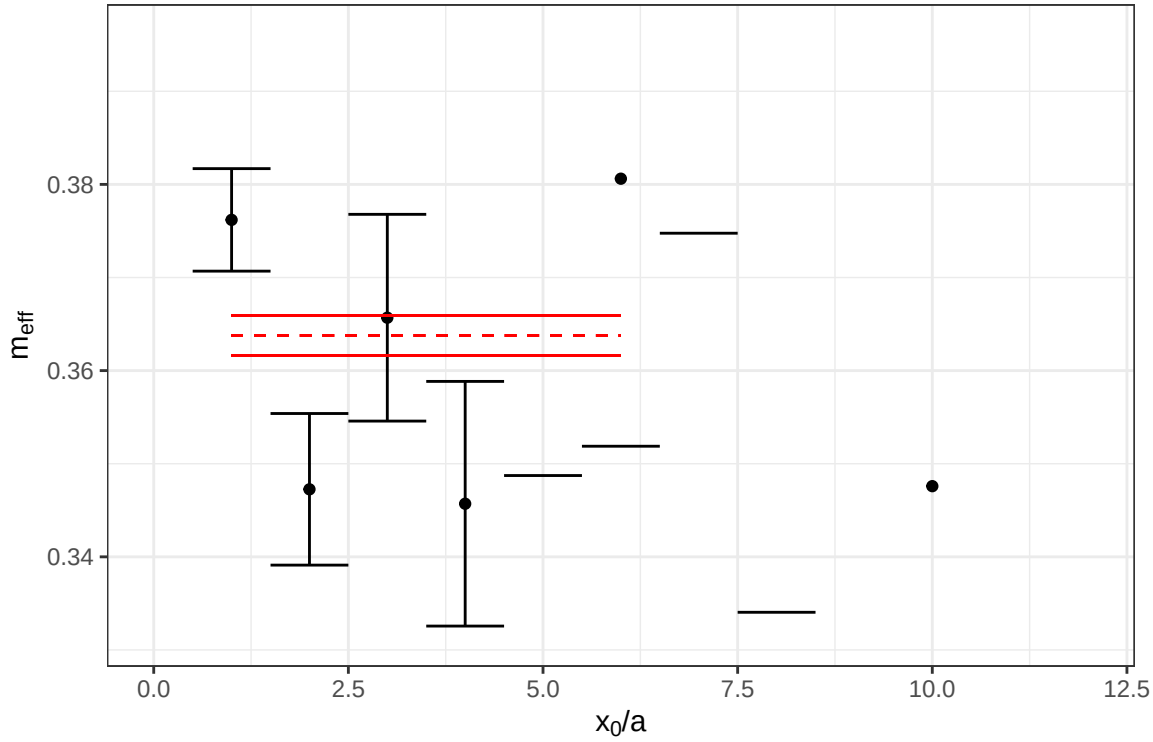
fit: $m_{eff} = 0.234246 \pm 0.000715$



Two particle energy index n= 0

fit: $m_{eff} = 0.363771 \pm 0.002154$

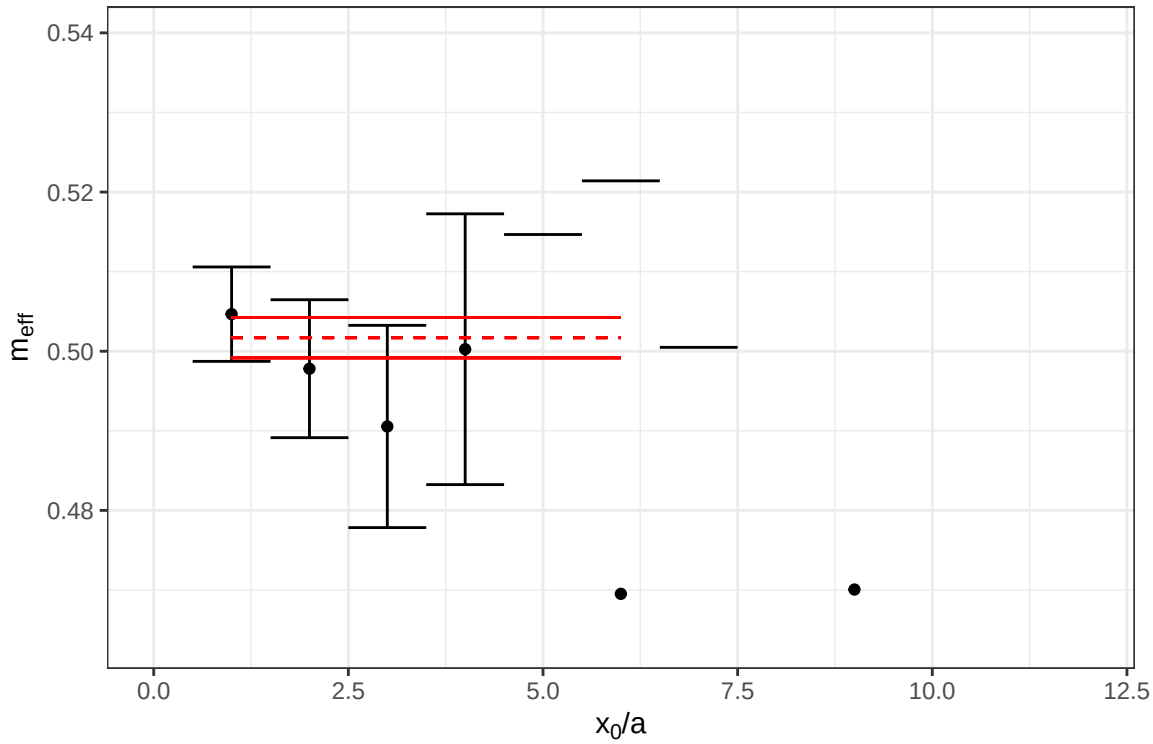
```
Warning: Removed 4 rows containing missing values (geom_point).
```



index n= 1

fit: $m_{eff} = 0.501705 \pm 0.002520$

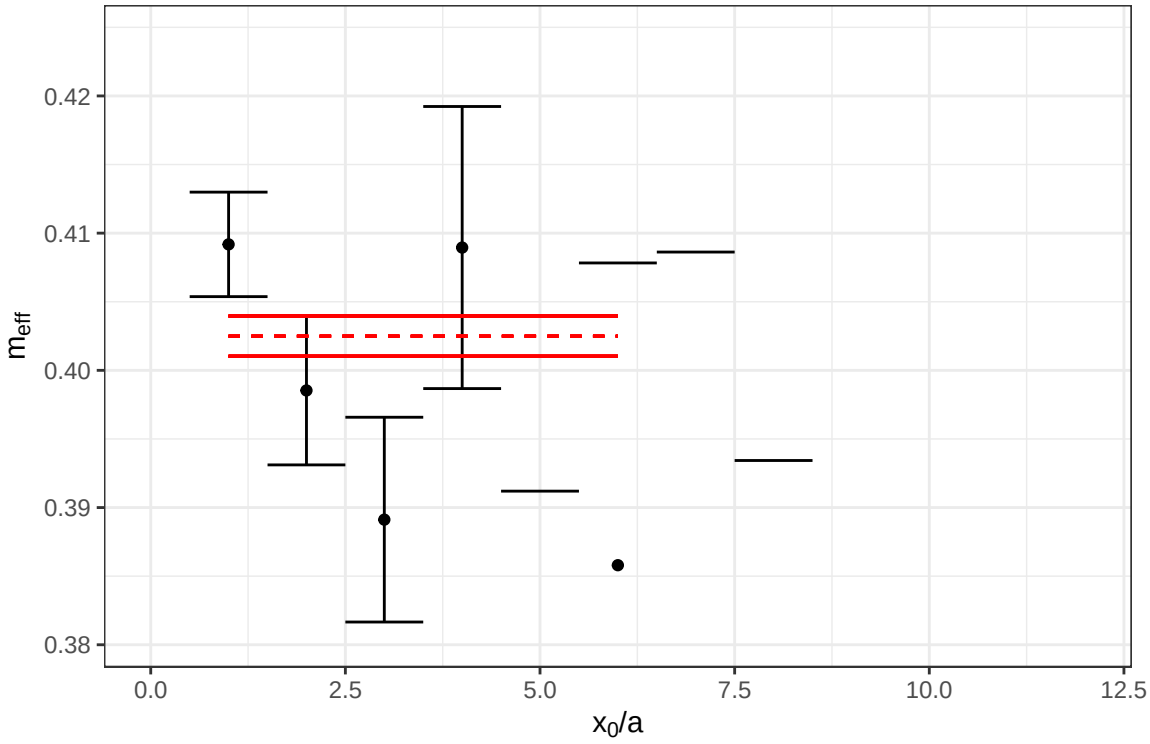
```
Warning: Removed 4 rows containing missing values (geom_point).
```



index n= 2

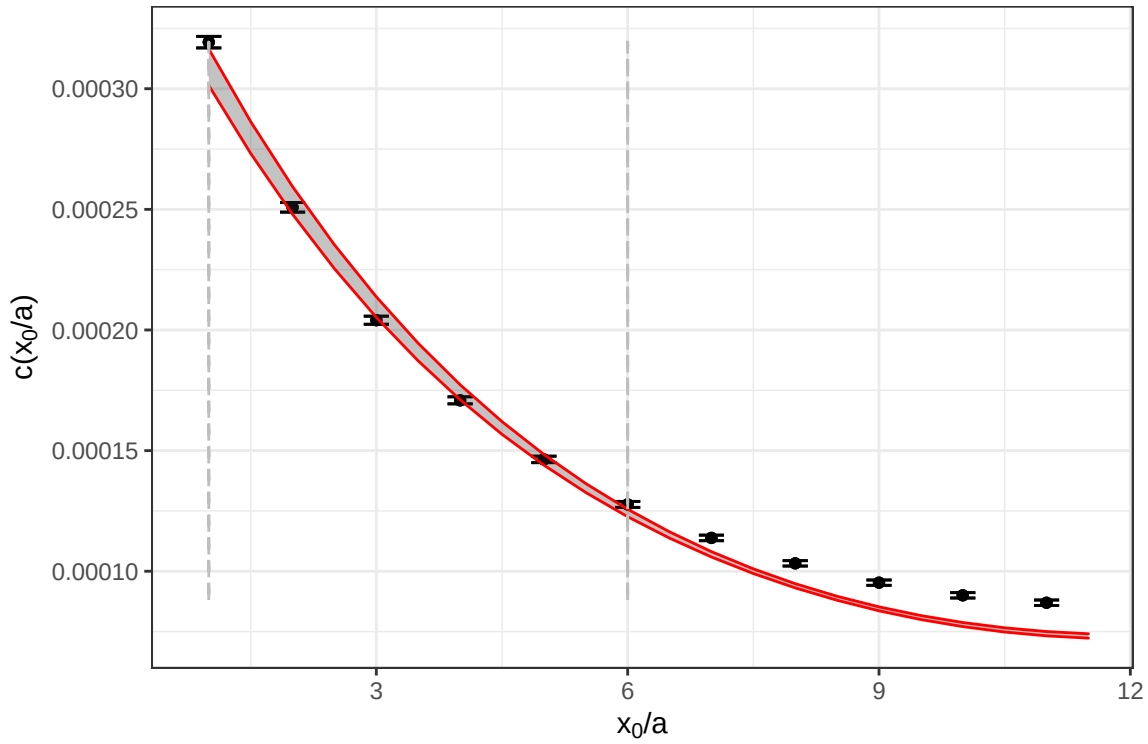
fit: $m_{eff} = 0.402493 \pm 0.001462$

```
Warning: Removed 6 rows containing missing values (geom_point).
```



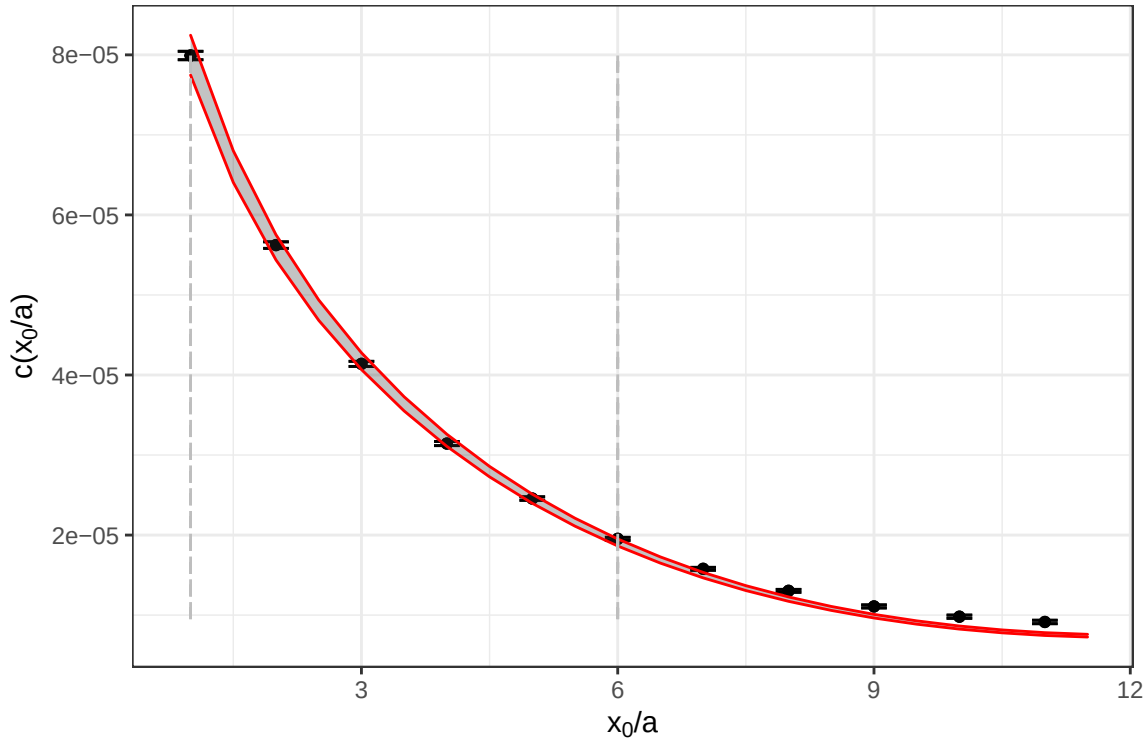
Three particle energy index n= 0

$P[1] = -0.001516 \pm 0.000856$ $P[2] = -0.004448 \pm 0.000254$ $P[3] = -0.017372 \pm 0.000314$



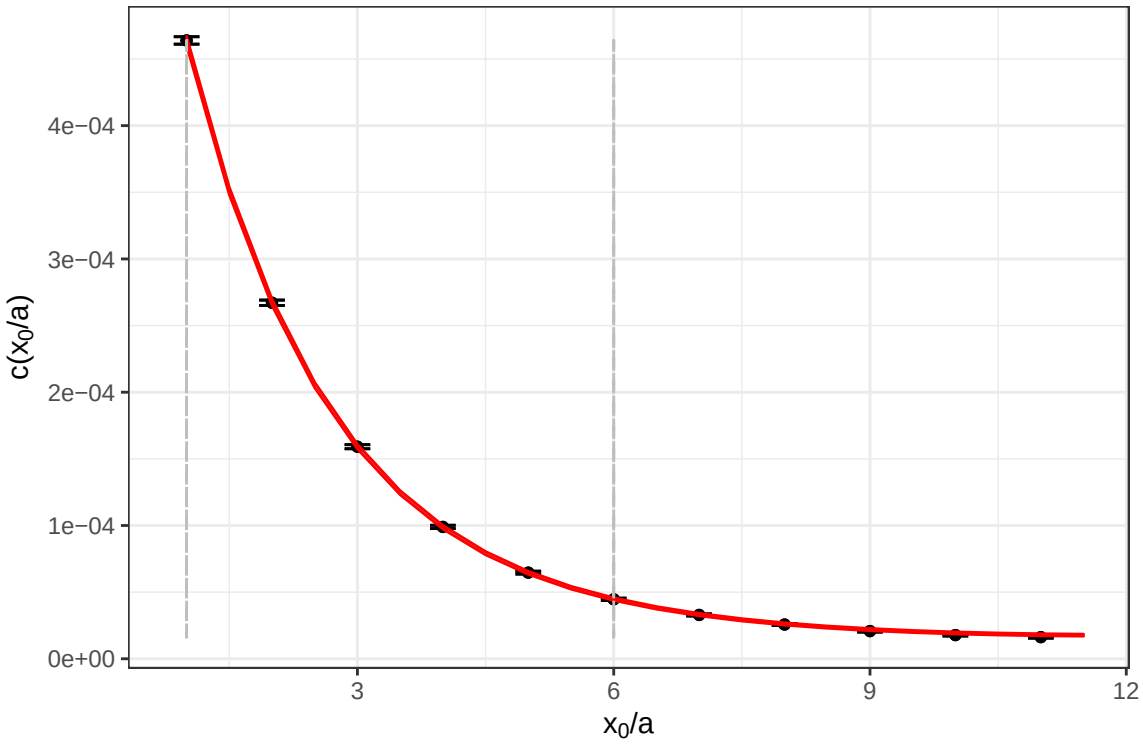
index n= 1

$P[1] = 1.480982 \pm 0.090273$ $P[2] = 0.009363 \pm 0.000236$ $P[3] = 79.995606 \pm 46.068092$



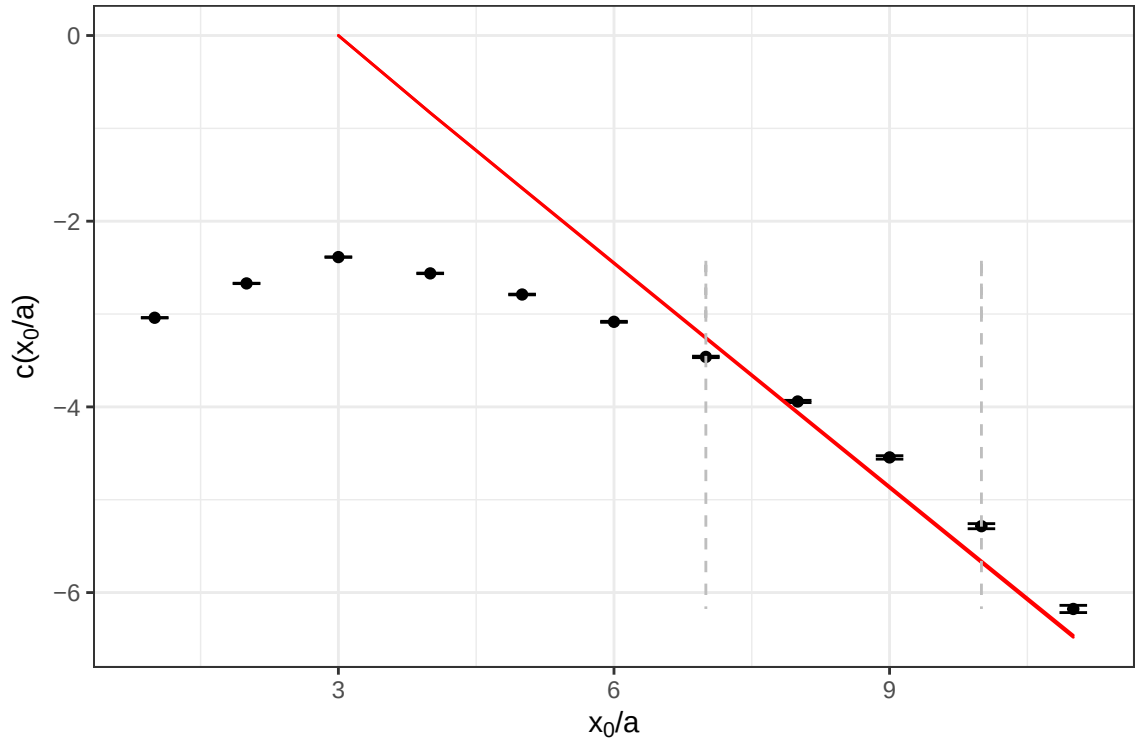
index n= 2

$P[1] = 0.616006 \pm 0.004034$ $P[2] = 0.038929 \pm 0.000116$ $P[3] = 0.671167 \pm 0.028817$



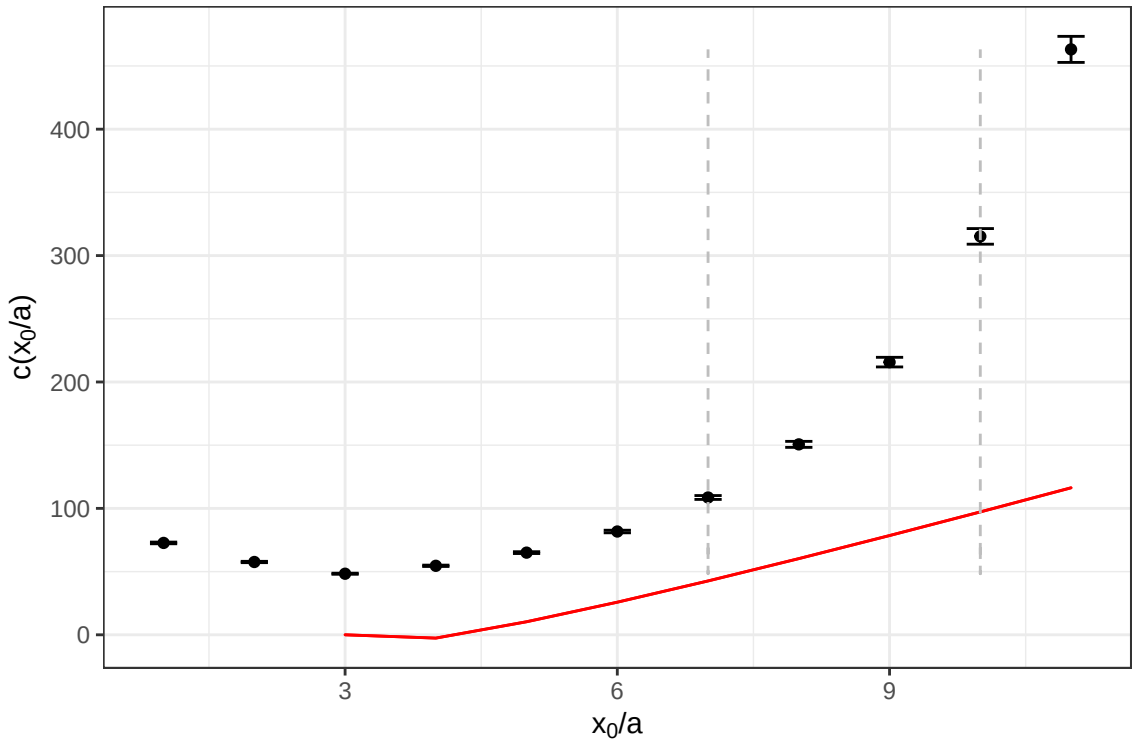
C4_BH index n= 0 #E4_0

$P[1] = -0.107762 \pm 0.000175$



index n= 1 #E4_1

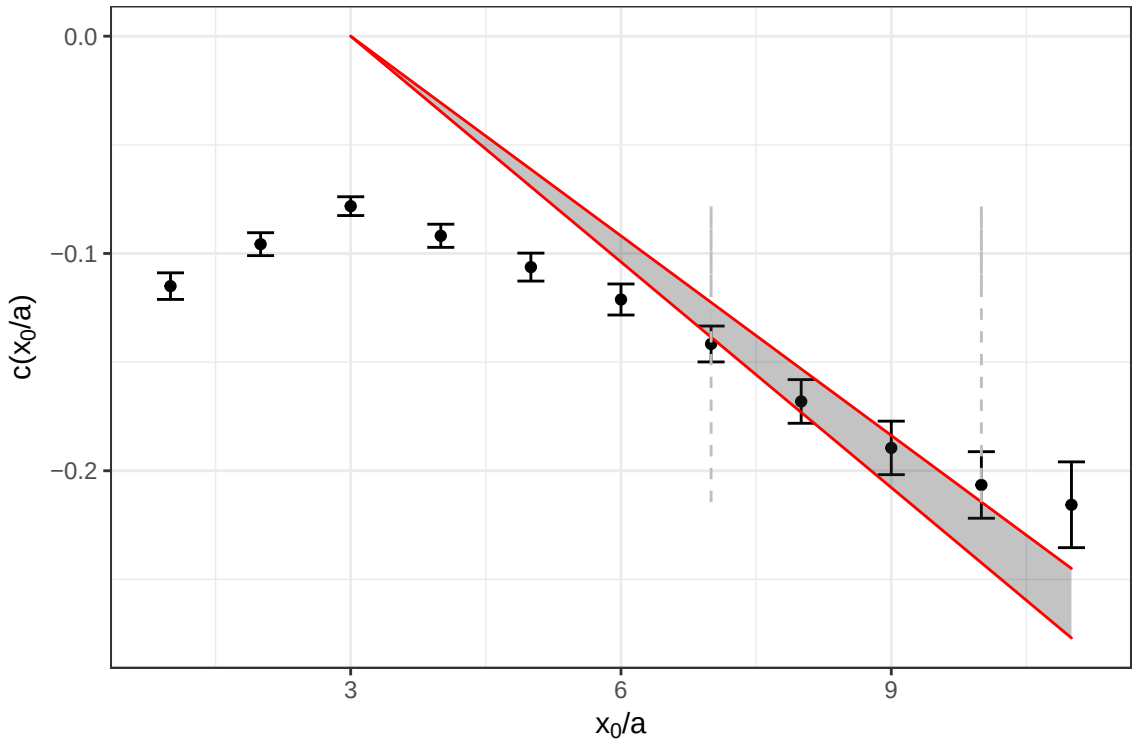
$P[1] = 2.031022 \pm 0.002450$



index n= 2 #E4

$P[1] = -0.003403 \pm 0.000209$

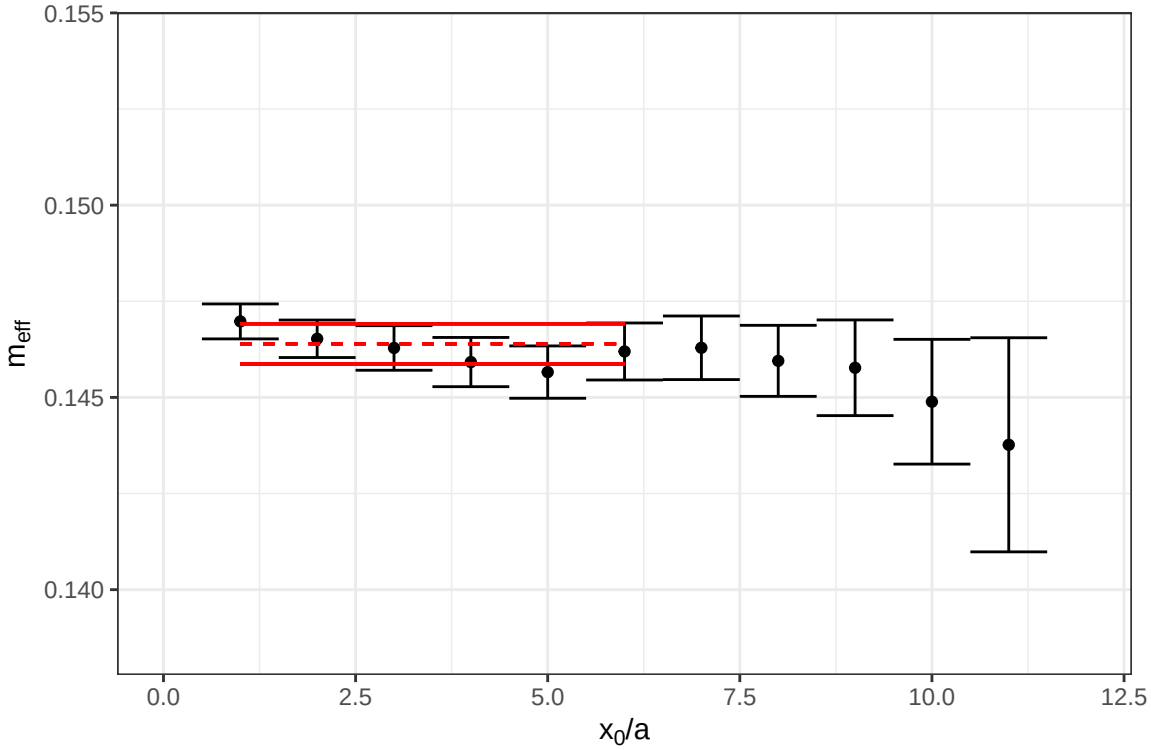
```
Warning in `[<-.data.frame`(`*tmp*`, count + 1, , value = list(10, 24,
0.146910832044059, : provided 41 variables to replace 31 variables
```



T 24 L 10 $m_0^2 = -4.95$ $m_1^2 = -4.9$ $\lambda_0^2 = 2.5$ $\lambda_1^2 = 2.5$ $\mu^2 = 5$ $g^2 = 0$ **replica = 1**

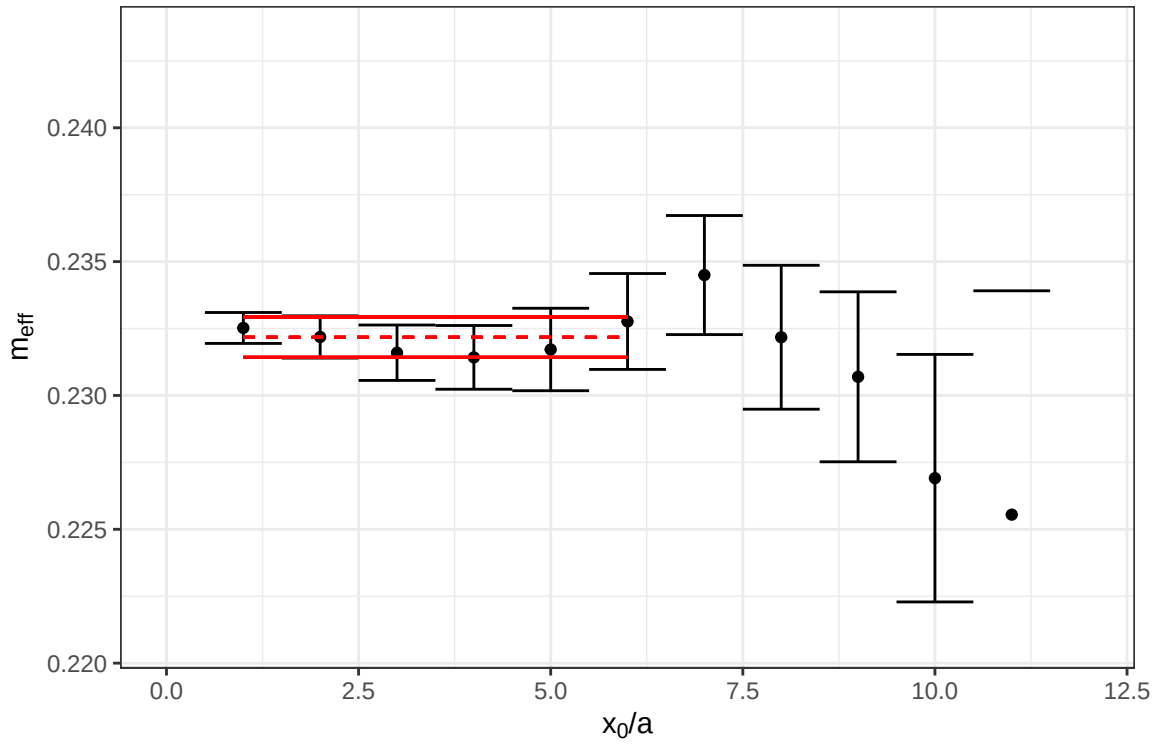
Mass index n= 0

fit: $m_{eff} = 0.146393 \pm 0.000522$



index n= 1

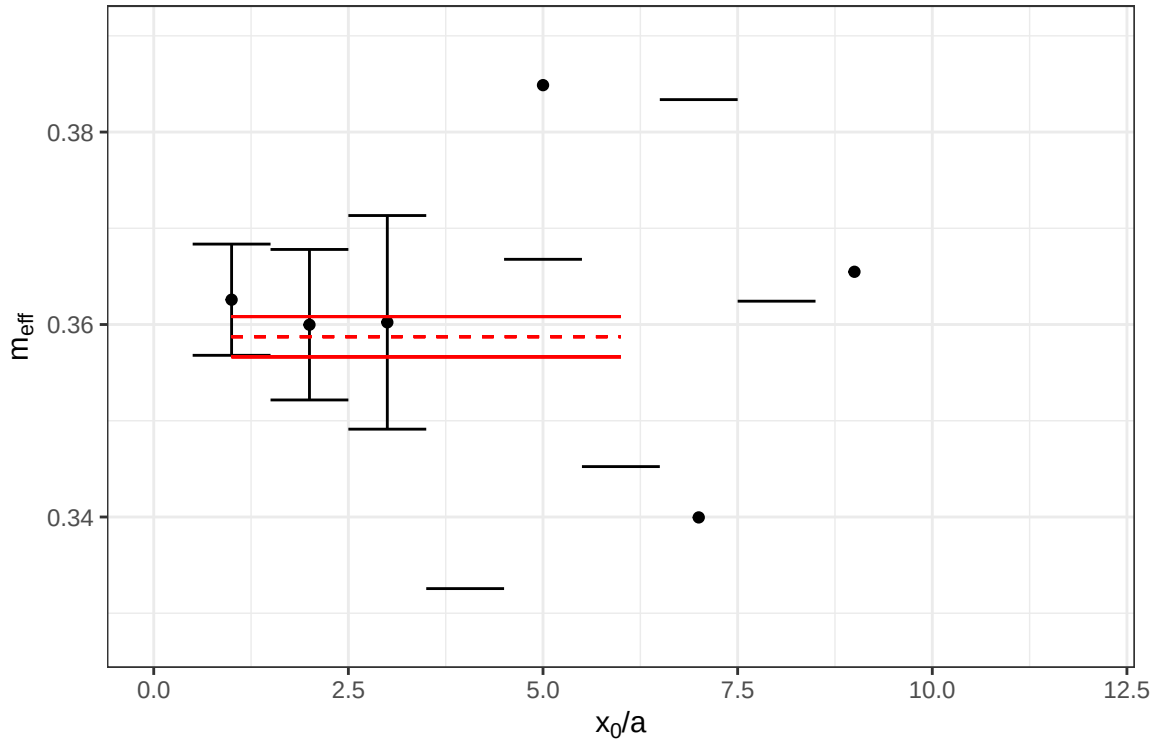
fit: $m_{eff} = 0.232174 \pm 0.000749$



Two particle energy index n= 0

fit: $m_{eff} = 0.358738 \pm 0.002084$

```
Warning: Removed 5 rows containing missing values (geom_point).
```



index n= 1

fit: $m_{eff} = 0.497320 \pm 0.002651$

```
Warning: Removed 3 rows containing missing values (geom_point).
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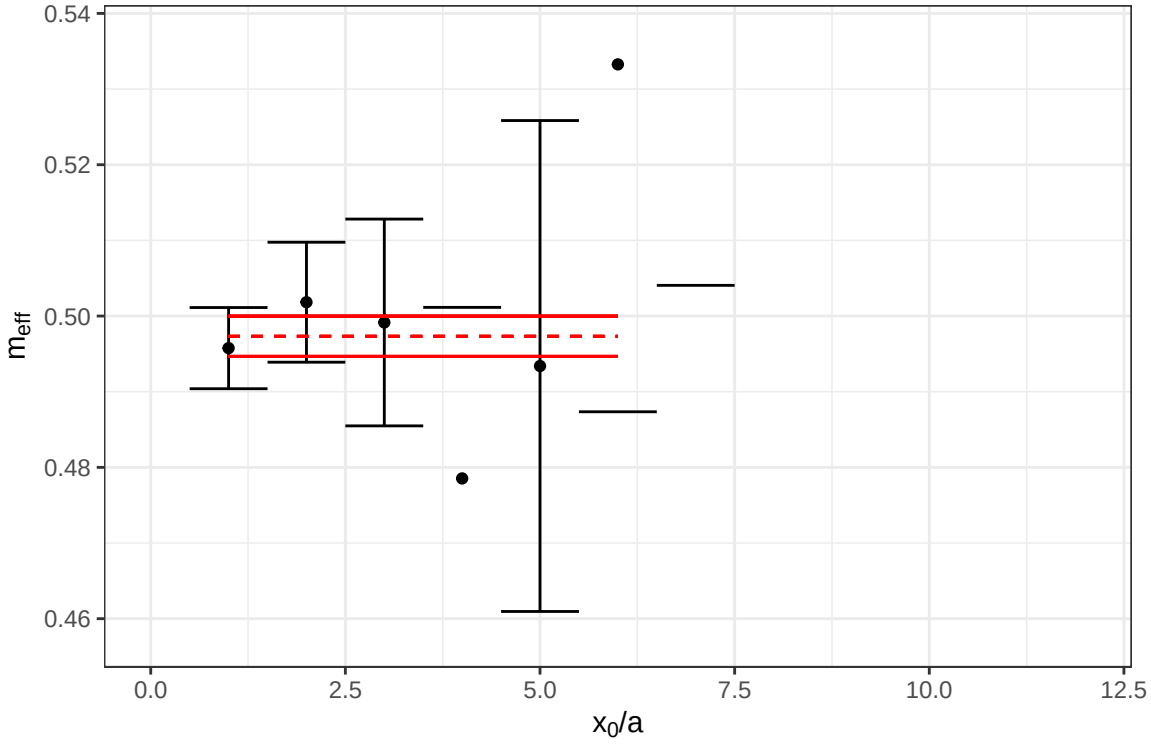
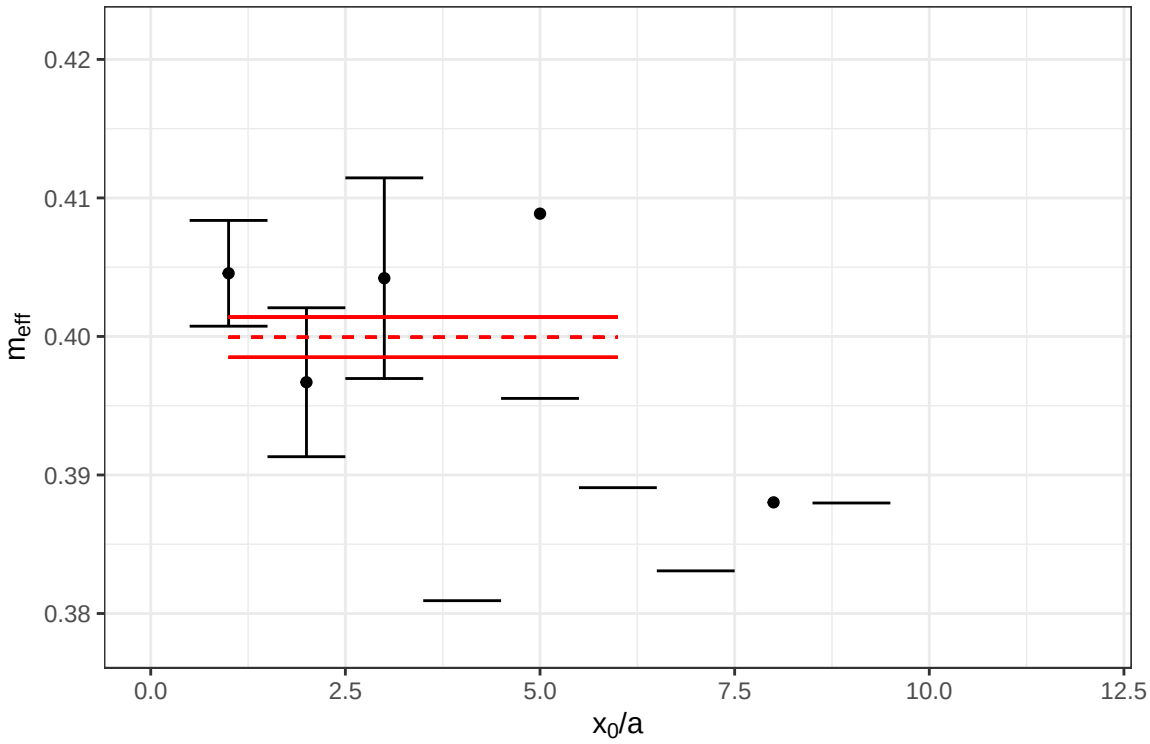


index n= 2

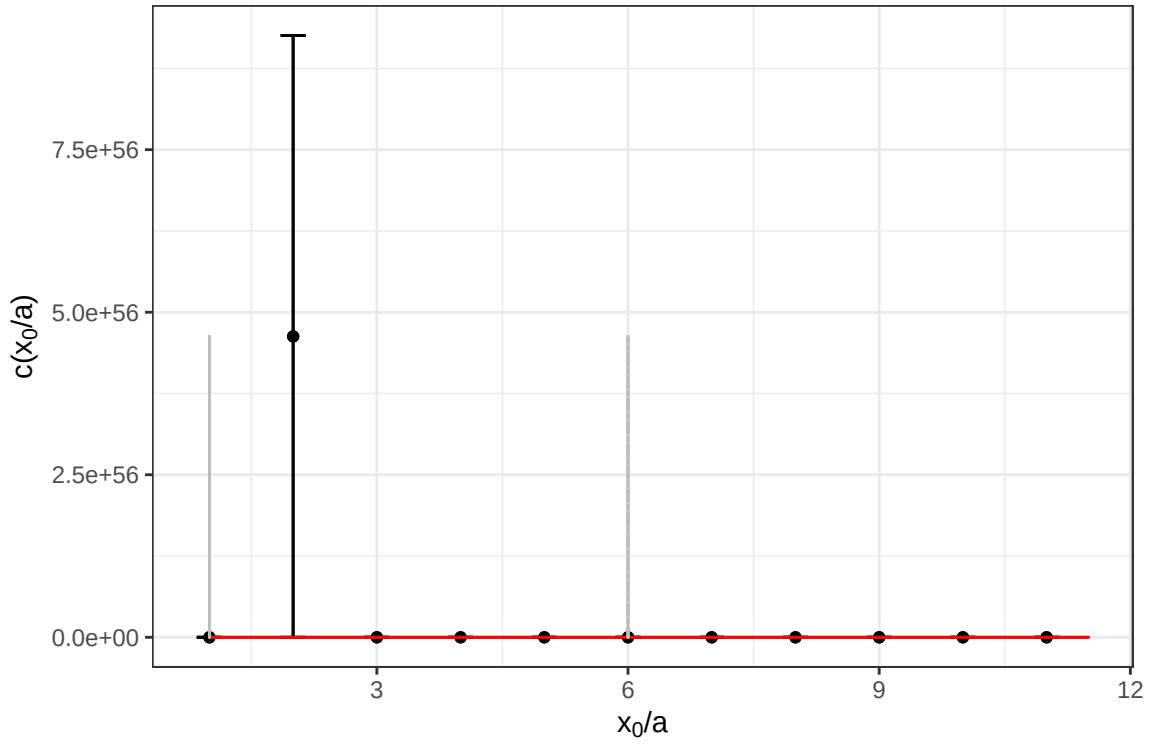
fit: $m_{eff} = 0.399942 \pm 0.001448$

```
Warning: Removed 5 rows containing missing values (geom_point).
```



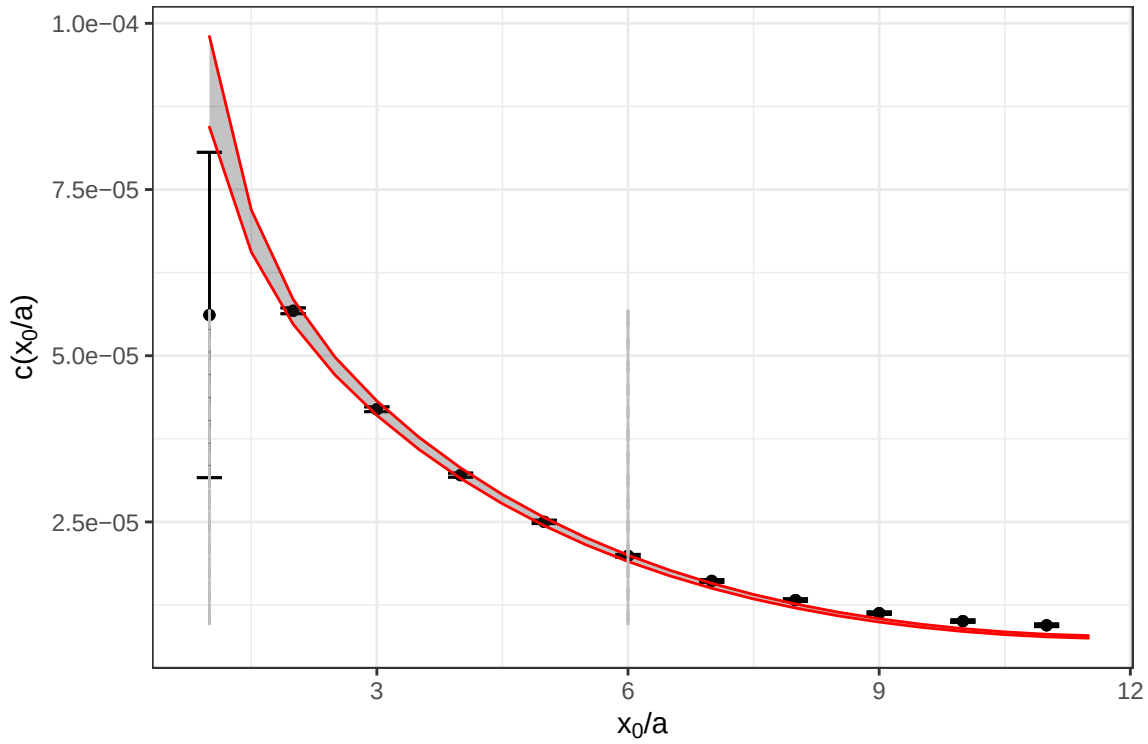
Three particle energy index n= 0

$P[1] = 0.246088 \pm 0.000157$ $P[2] = -0.000002 \pm 0.000169$ $P[3] = 0.083490 \pm 0.000079$



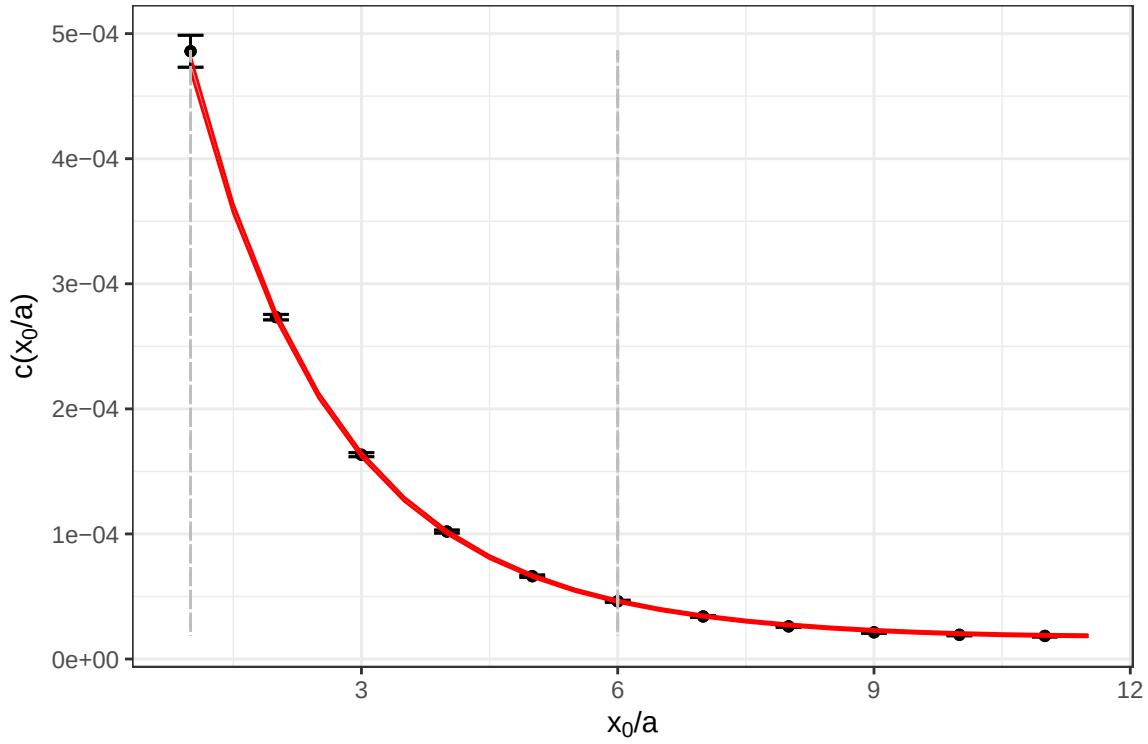
index n= 1

$P[1] = 2.220848 \pm 0.031745$ $P[2] = 0.019413 \pm 0.002455$ $P[3] = -6815.149032 \pm 1166.459819$



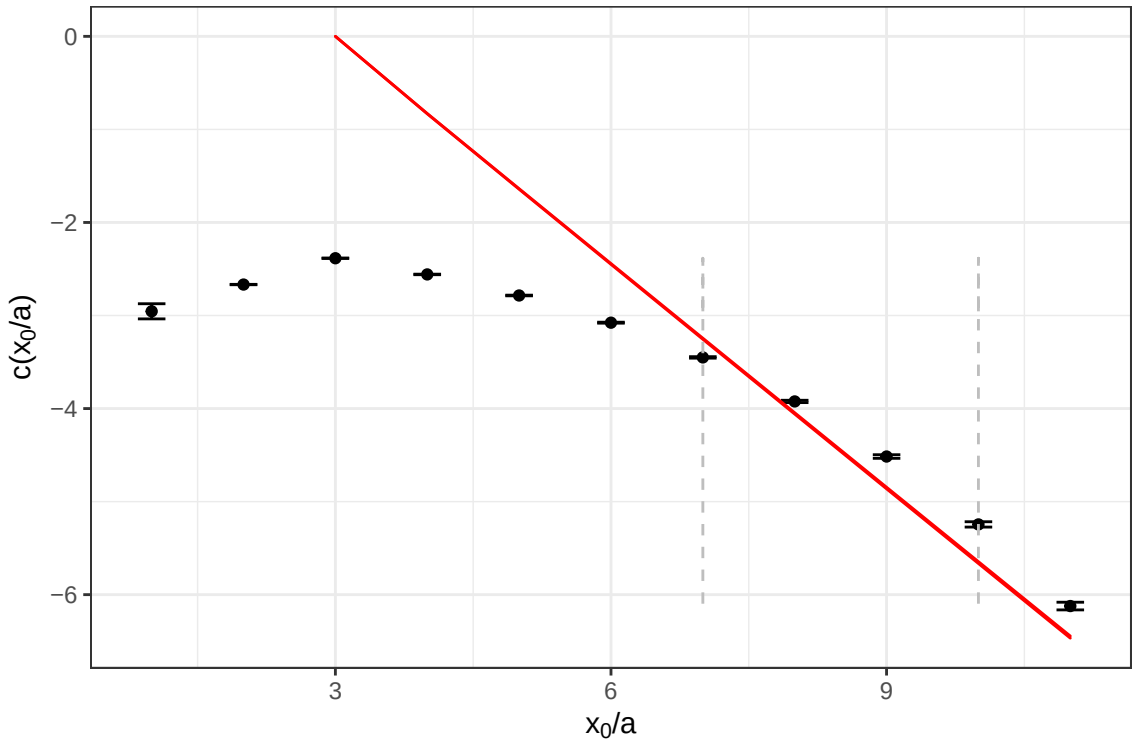
index n= 2

$P[1] = 0.618762 \pm 0.010830$ $P[2] = 0.039447 \pm 0.000325$ $P[3] = 0.690956 \pm 0.059260$



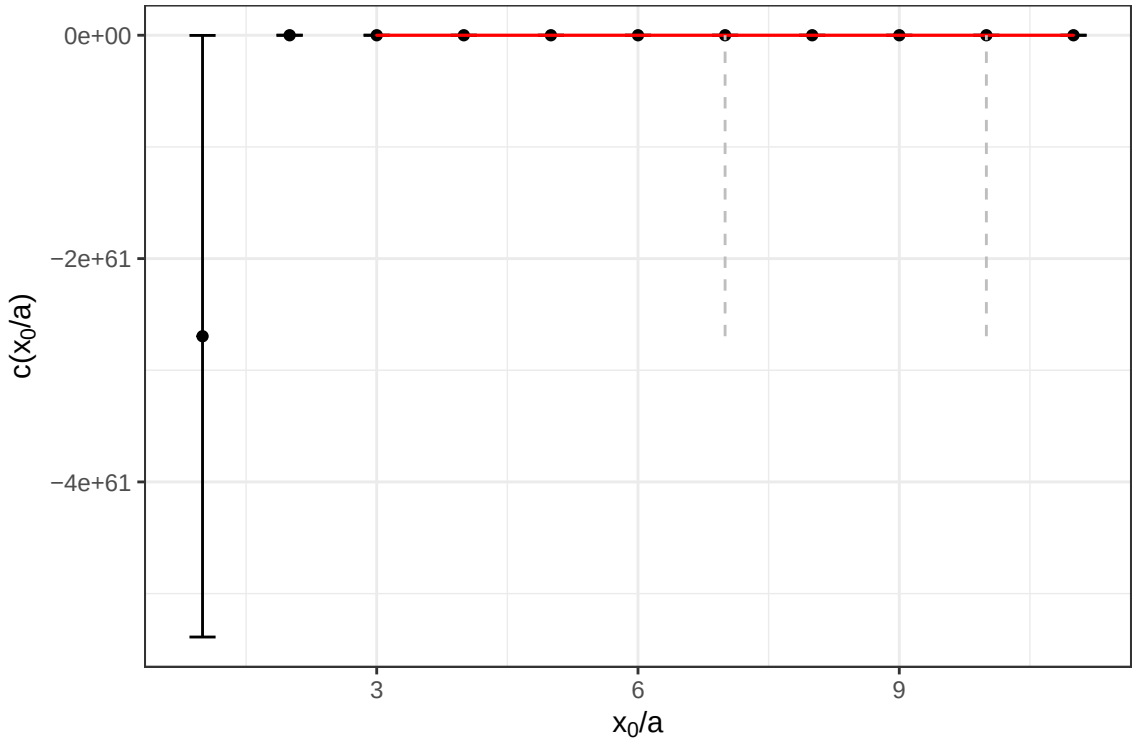
C4_BH index n= 0 #E4_0

$P[1] = -0.107893 \pm 0.000186$



index n= 1 #E4_1

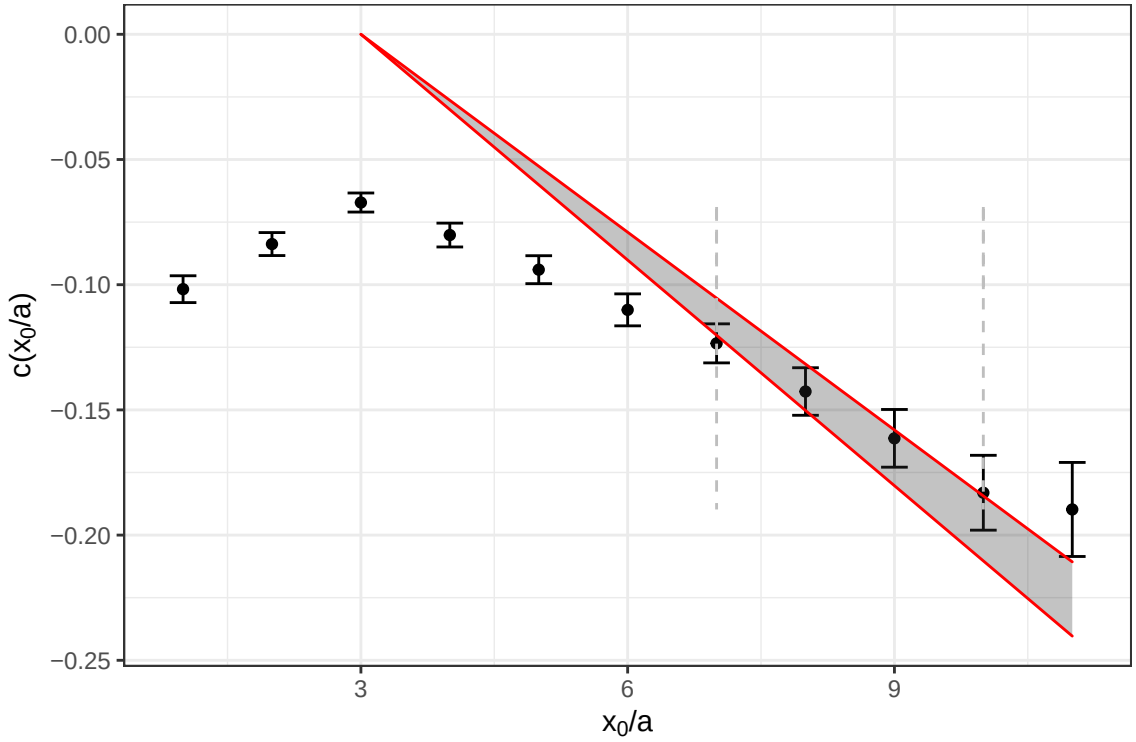
$P[1] = 2.042419 \pm 0.002350$



index n= 2 #E4

$P[1] = -0.002961 \pm 0.000195$

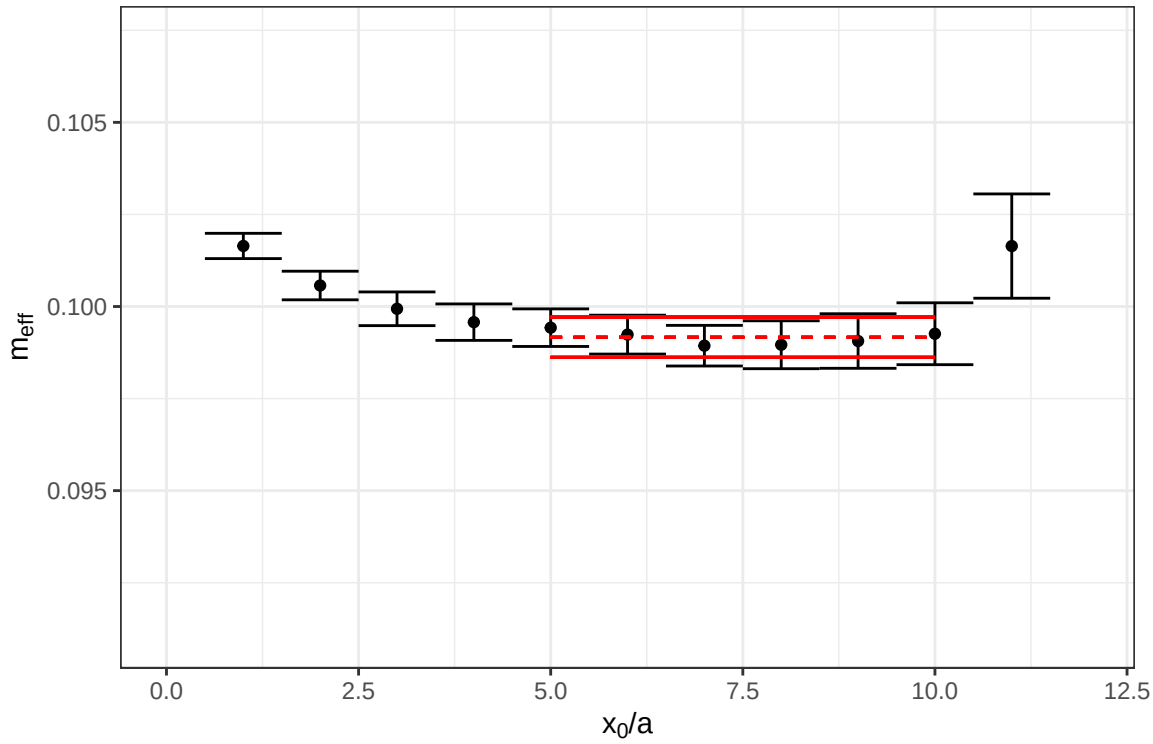
```
Warning in `[<-.data.frame`(`*tmp*`, count + 1, , value = list(10, 24,
0.146393133125632, : provided 41 variables to replace 31 variables
```



T 24 L 10 $m_0^2 = -4.98$ $m_1^2 = -4.9$ $\lambda_0^2 = 2.5$ $\lambda_1^2 = 2.5$ $\mu^2 = 5$ $g^2 = 0$ **replica = 0**

Mass index n= 0

fit: $m_{eff} = 0.099165 \pm 0.000545$



index n= 1

fit: $m_{eff} = 0.248760 \pm 0.000833$

```
Warning: Removed 1 rows containing missing values (geom_point).
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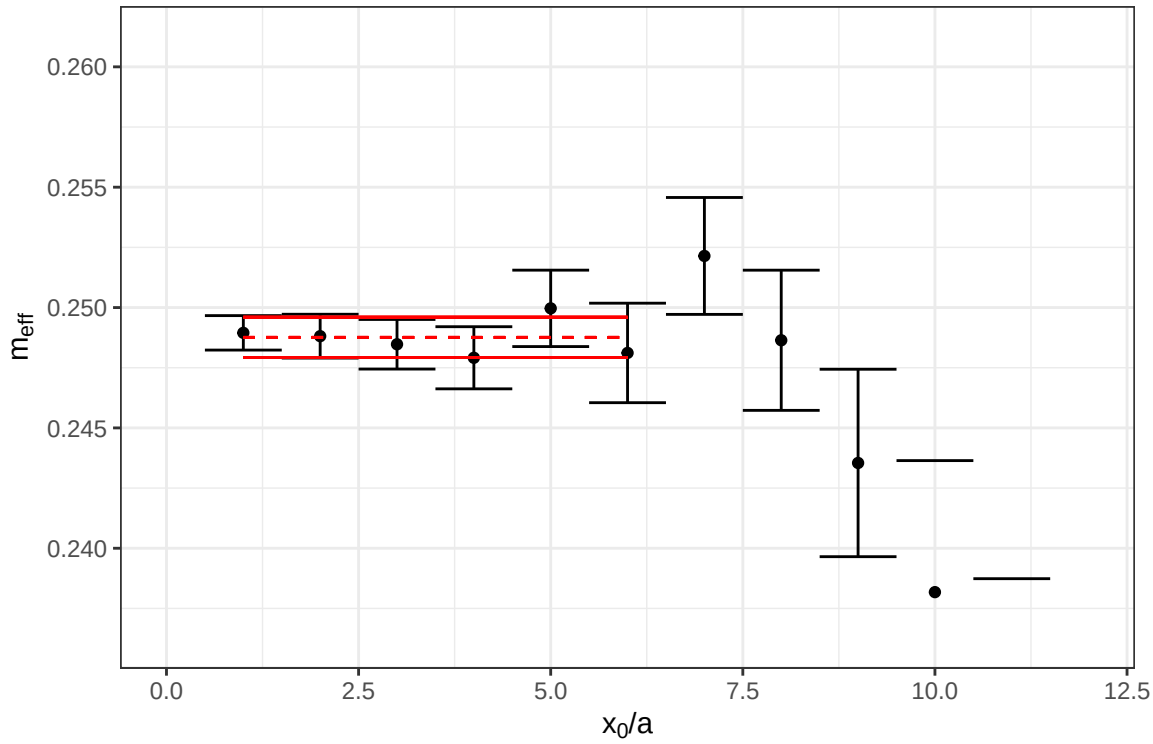
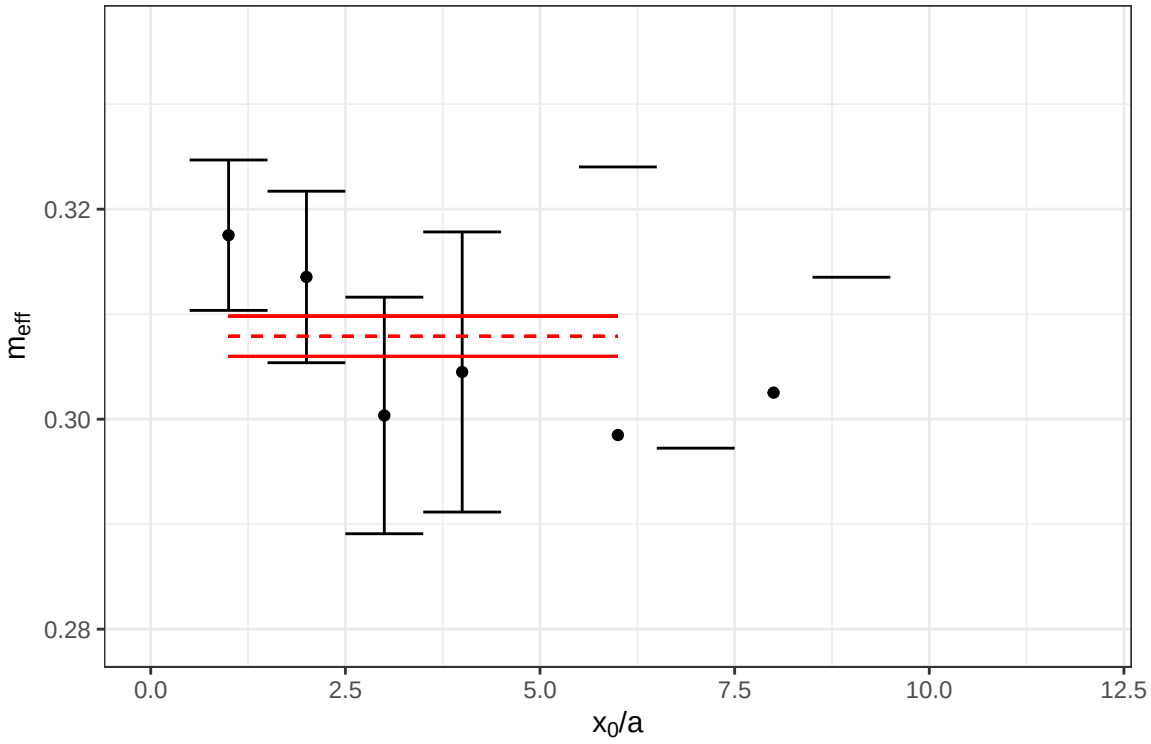


Two particle energy index n= 0

fit: $m_{eff} = 0.307891 \pm 0.001911$

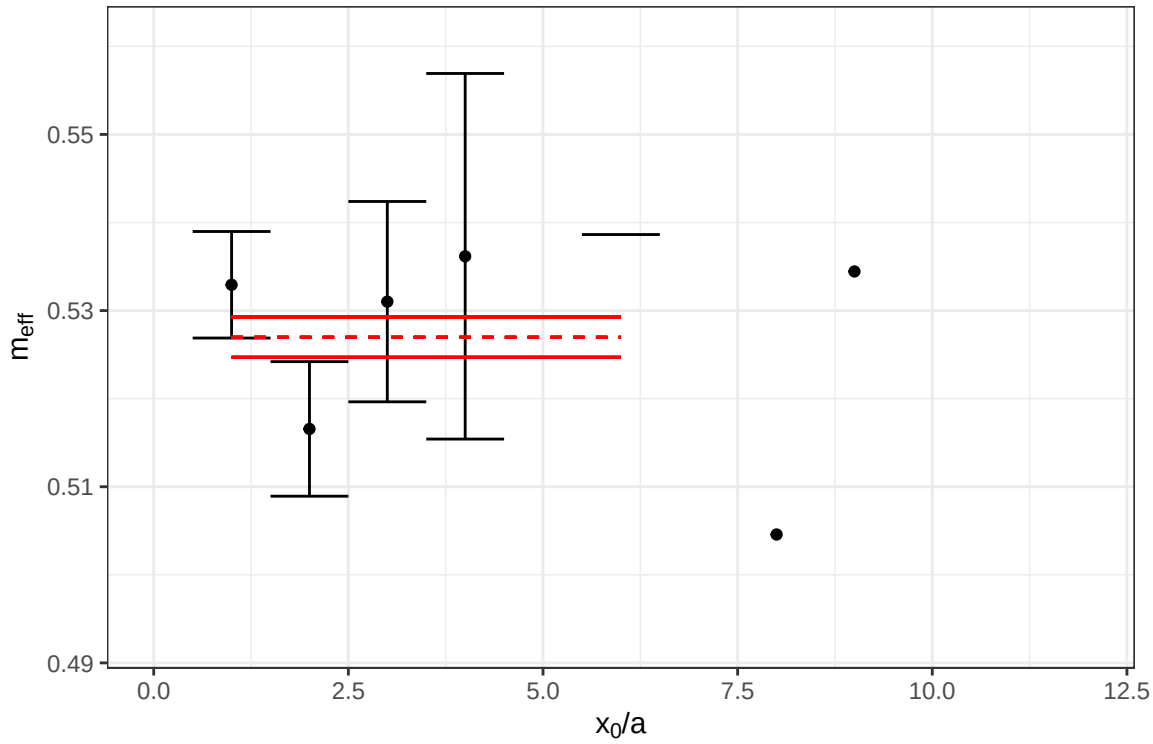
```
Warning: Removed 4 rows containing missing values (geom_point).
```



index n= 1

fit: $m_{eff} = 0.526973 \pm 0.002278$

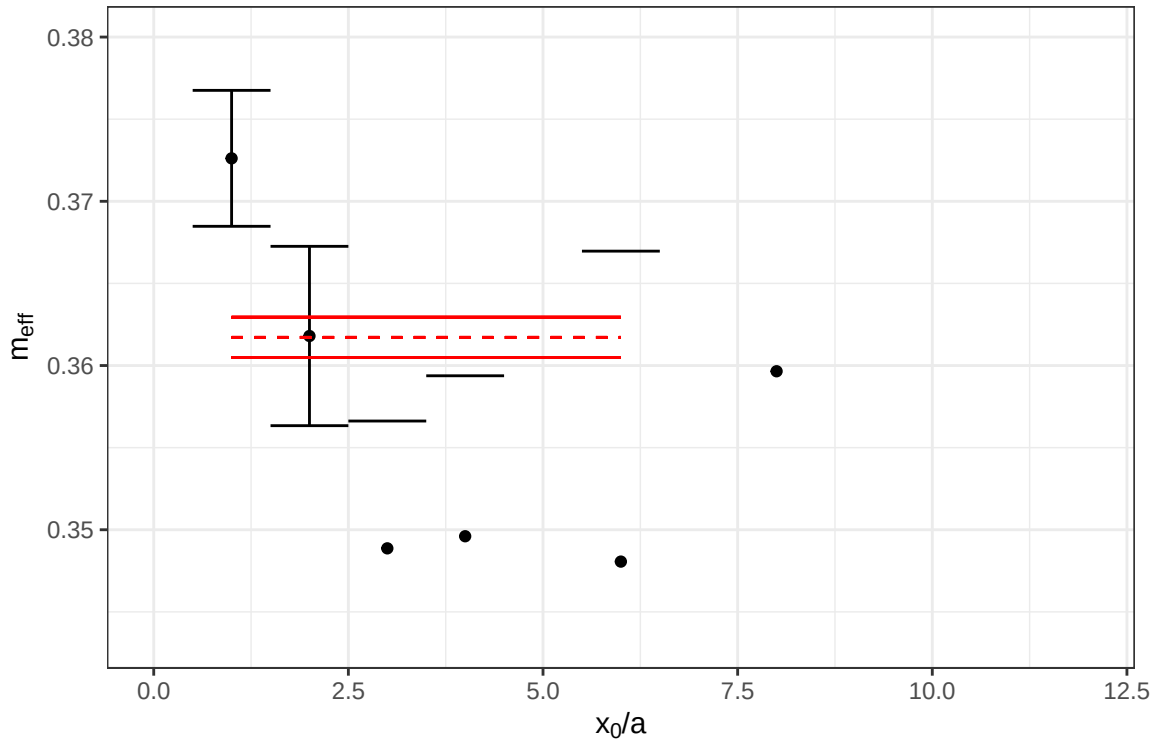
```
Warning: Removed 5 rows containing missing values (geom_point).
```



index n= 2

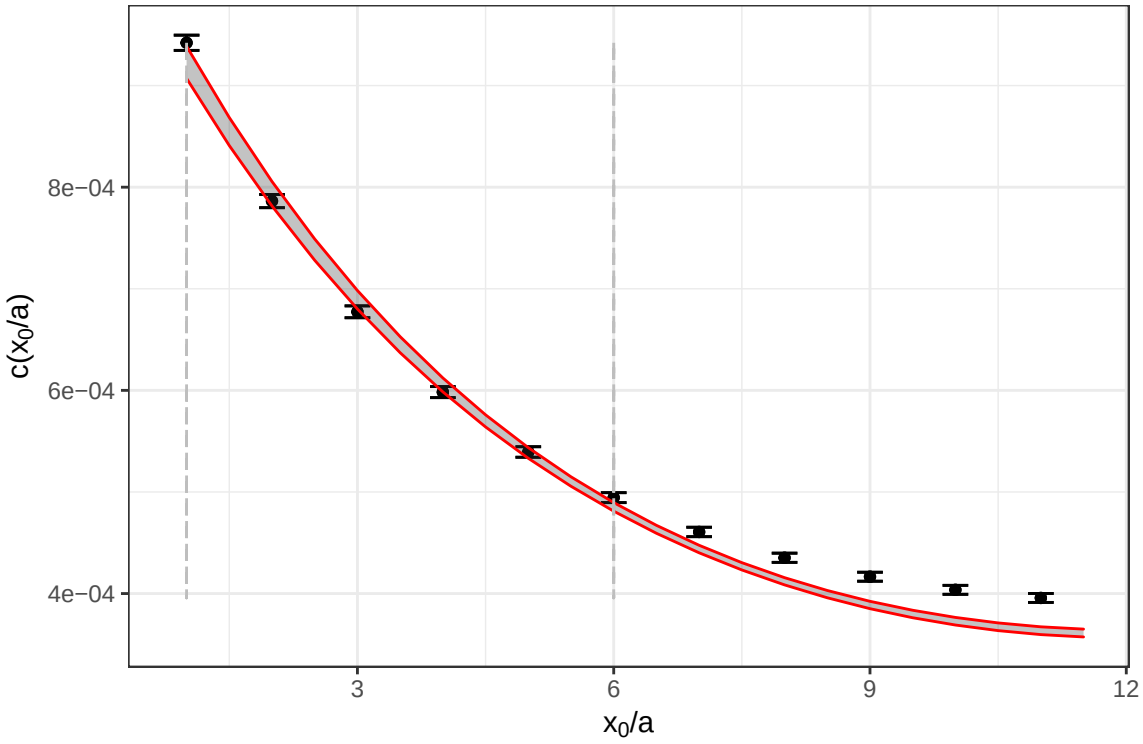
fit: $m_{eff} = 0.361713 \pm 0.001221$

```
Warning: Removed 4 rows containing missing values (geom_point).
```



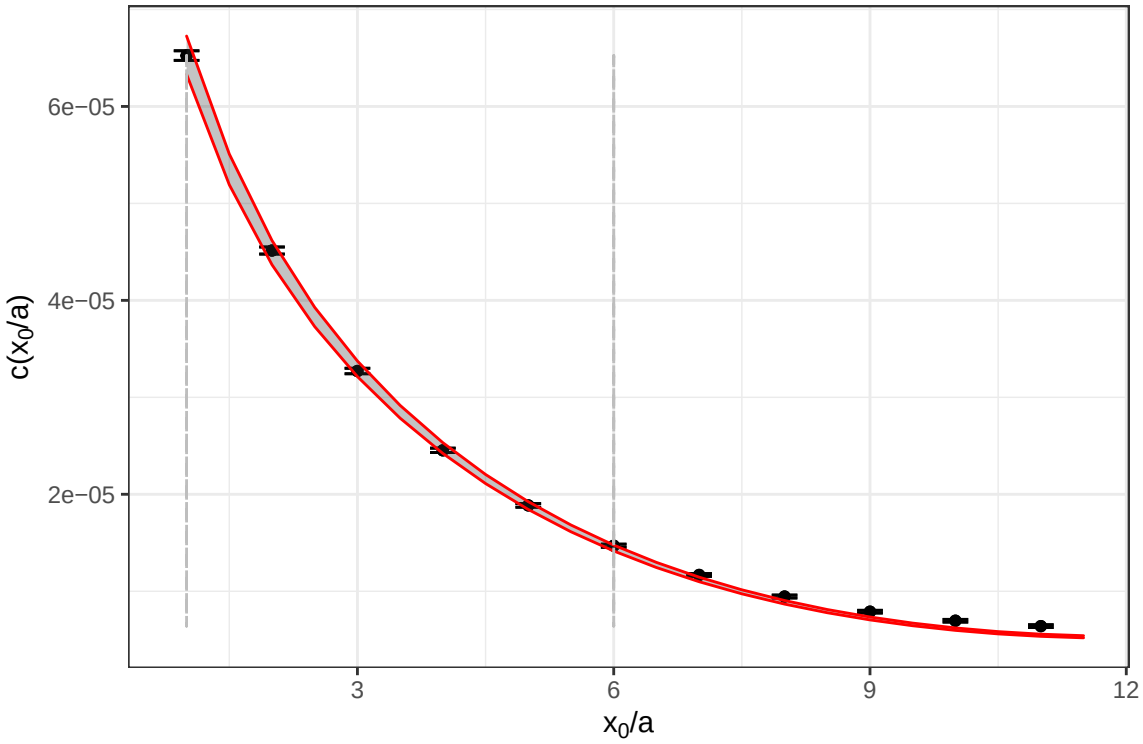
Three particle energy index n= 0

$P[1] = 0.000260 \pm 0.000375$ $P[2] = -0.014869 \pm 0.000246$ $P[3] = -0.021486 \pm 0.000286$



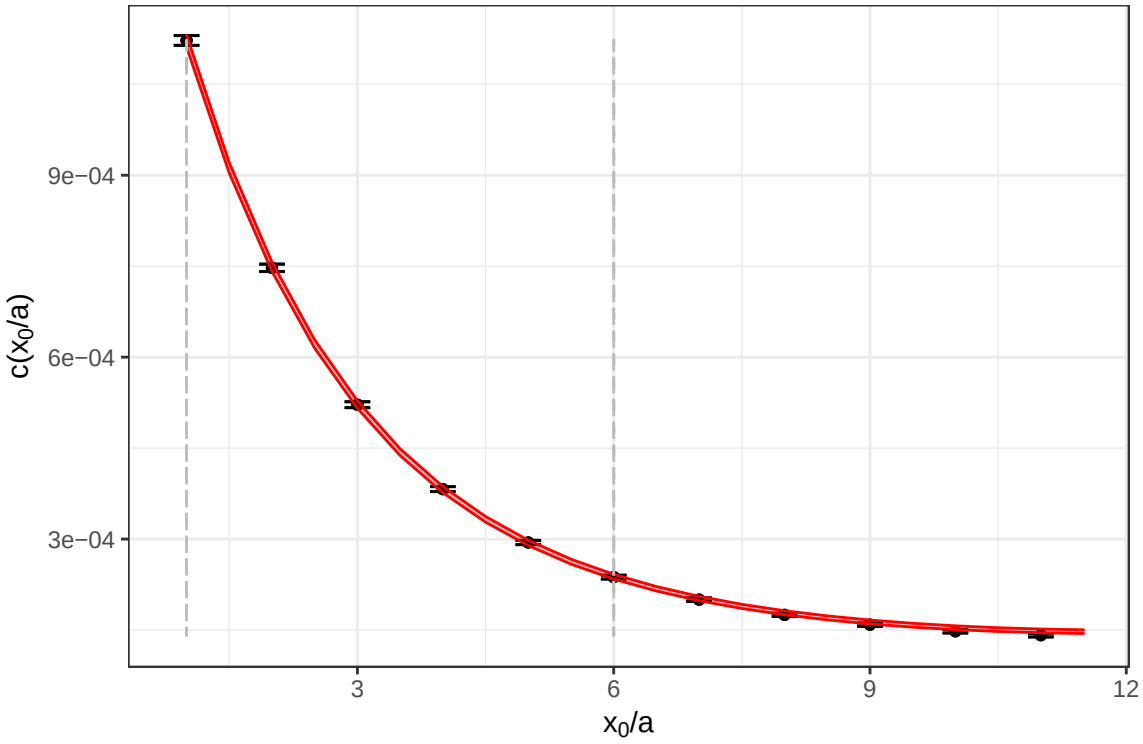
index n= 1

$P[1] = 1.372215 \pm 0.090647$ $P[2] = 0.008471 \pm 0.000182$ $P[3] = 38.389030 \pm 21.767175$



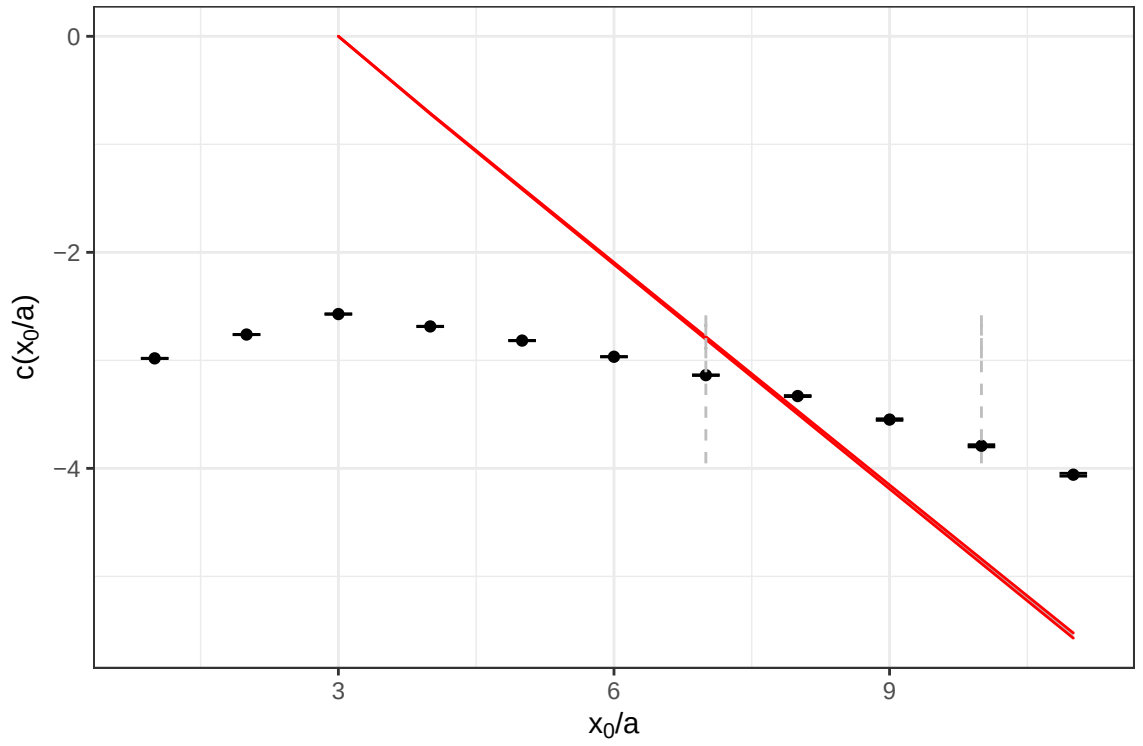
index n= 2

$P[1] = 0.523029 \pm 0.003161$ $P[2] = 0.053735 \pm 0.000170$ $P[3] = 1.220167 \pm 0.030126$



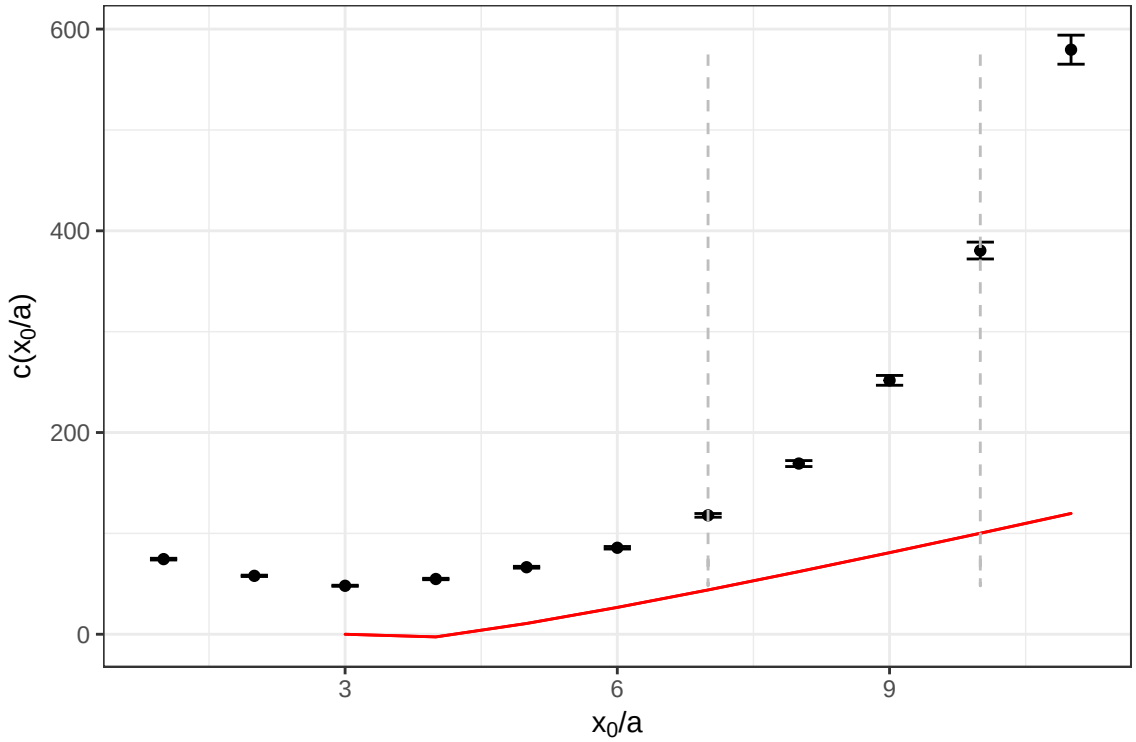
C4_BH index n= 0 #E4_0

$P[1] = -0.136771 \pm 0.000576$



index n= 1 #E4_1

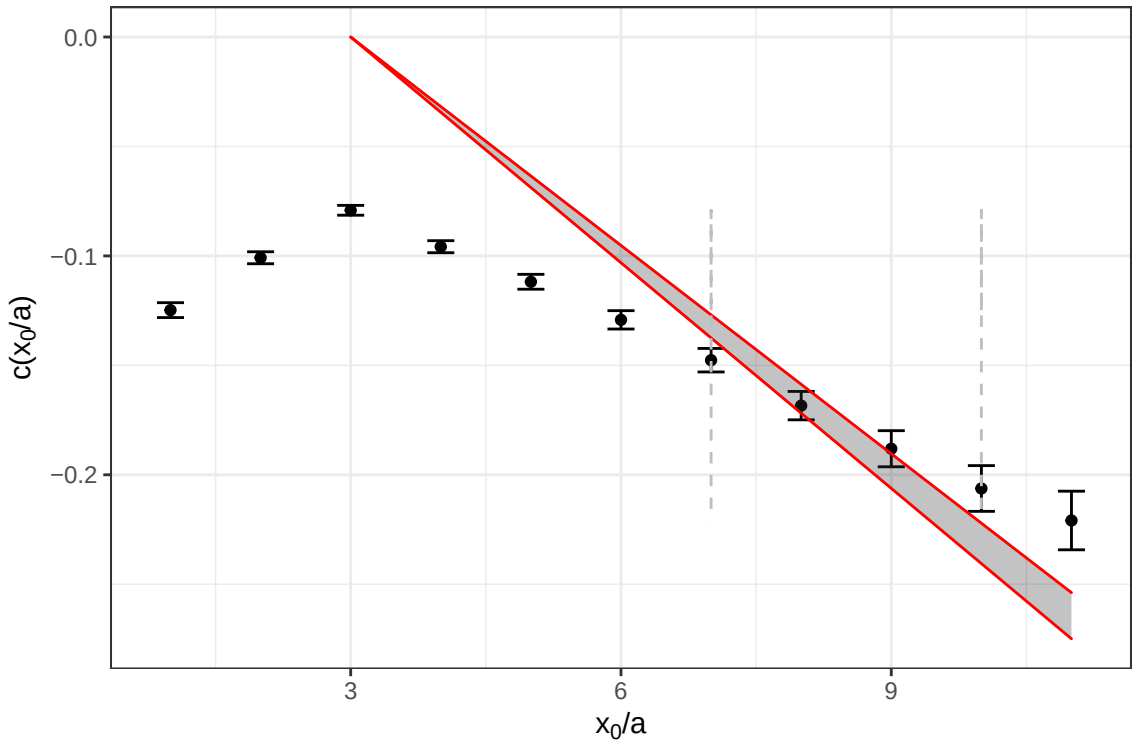
$P[1] = 1.967226 \pm 0.002759$



index n= 2 #E4

$P[1] = -0.003777 \pm 0.000151$

```
Warning in `[<-.data.frame`(`*tmp*`, count + 1, , value = list(10, 24,
0.0991651394815953, : provided 41 variables to replace 31 variables
```

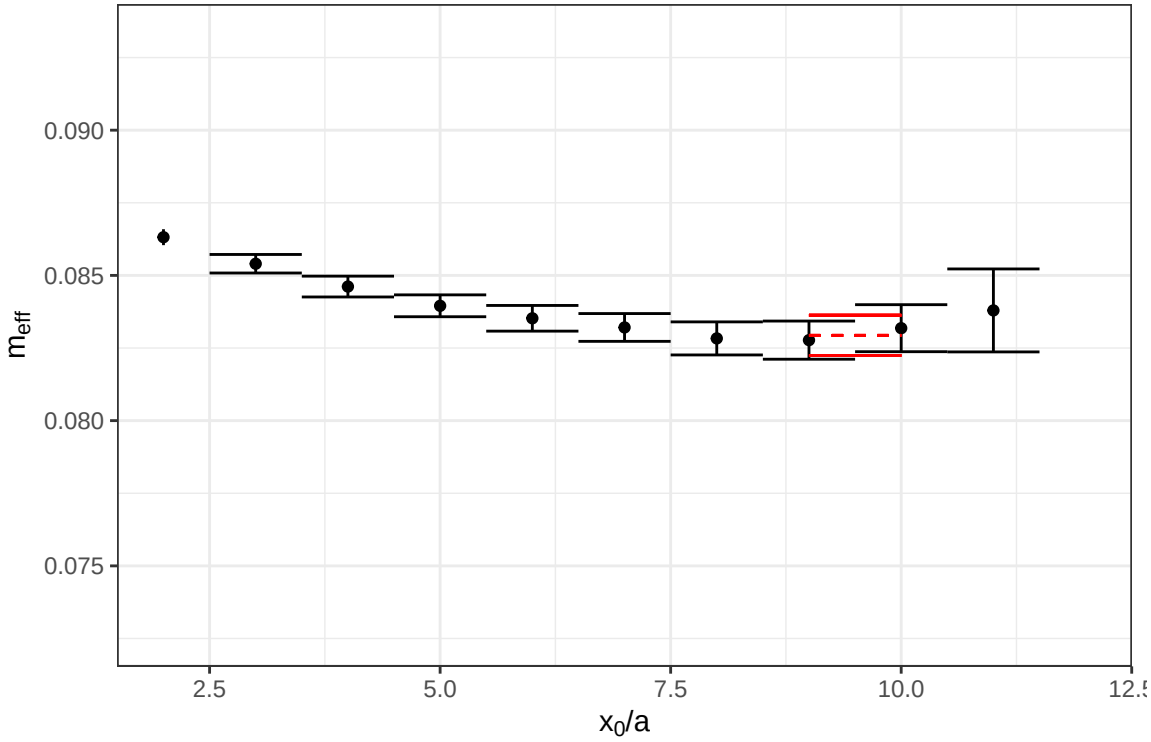


T 24 L 10 $m_0^2 = -4.99$ $m_1^2 = -4.9$ $\lambda_0^2 = 2.5$ $\lambda_1^2 = 2.5$ $\mu^2 = 5$ $g^2 = 0$ **replica = 0**

Mass index n= 0

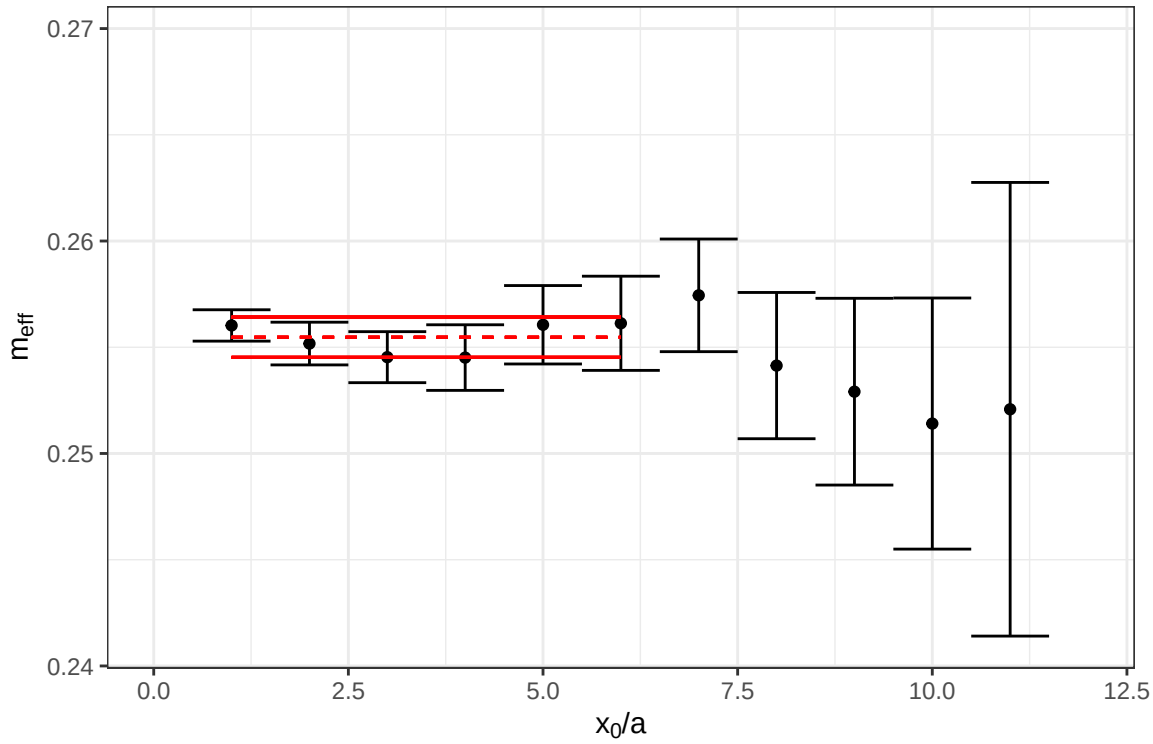
fit: $m_{eff} = 0.082935 \pm 0.000691$

```
Warning: Removed 1 rows containing missing values (geom_point).
```



index n= 1

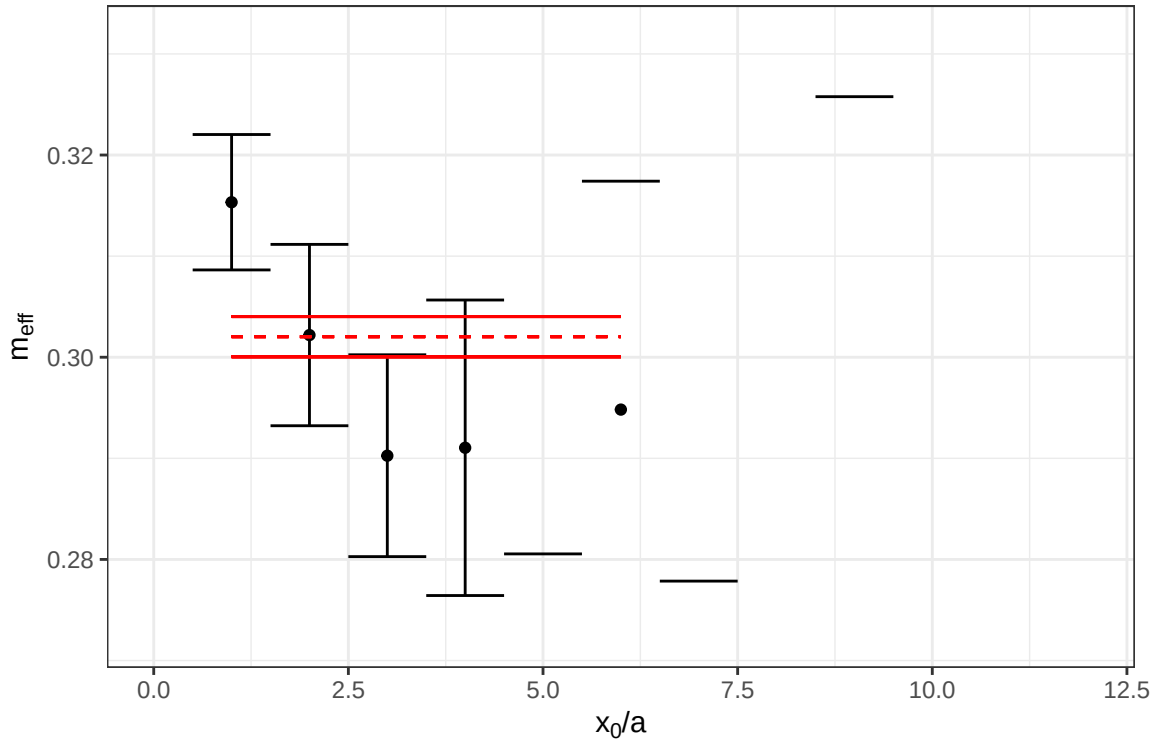
fit: $m_{eff} = 0.255471 \pm 0.000944$



Two particle energy index n= 0

fit: $m_{eff} = 0.302034 \pm 0.001984$

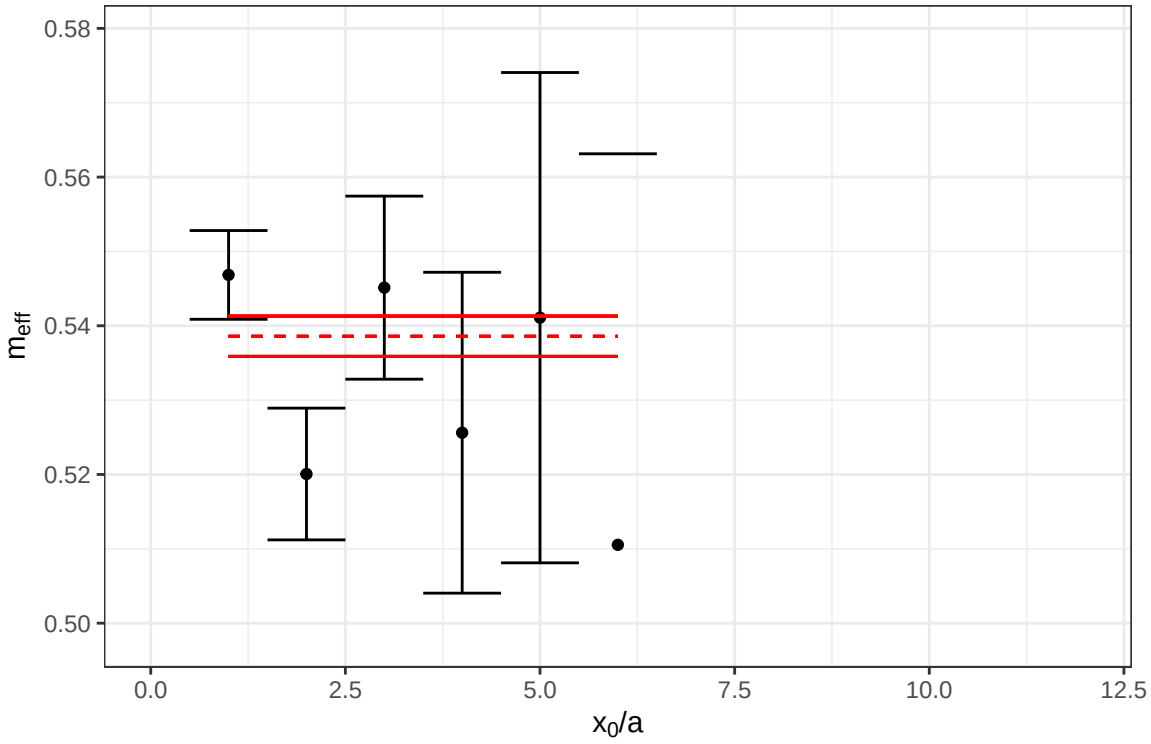
```
Warning: Removed 5 rows containing missing values (geom_point).
```



index n= 1

fit: $m_{eff} = 0.538582 \pm 0.002698$

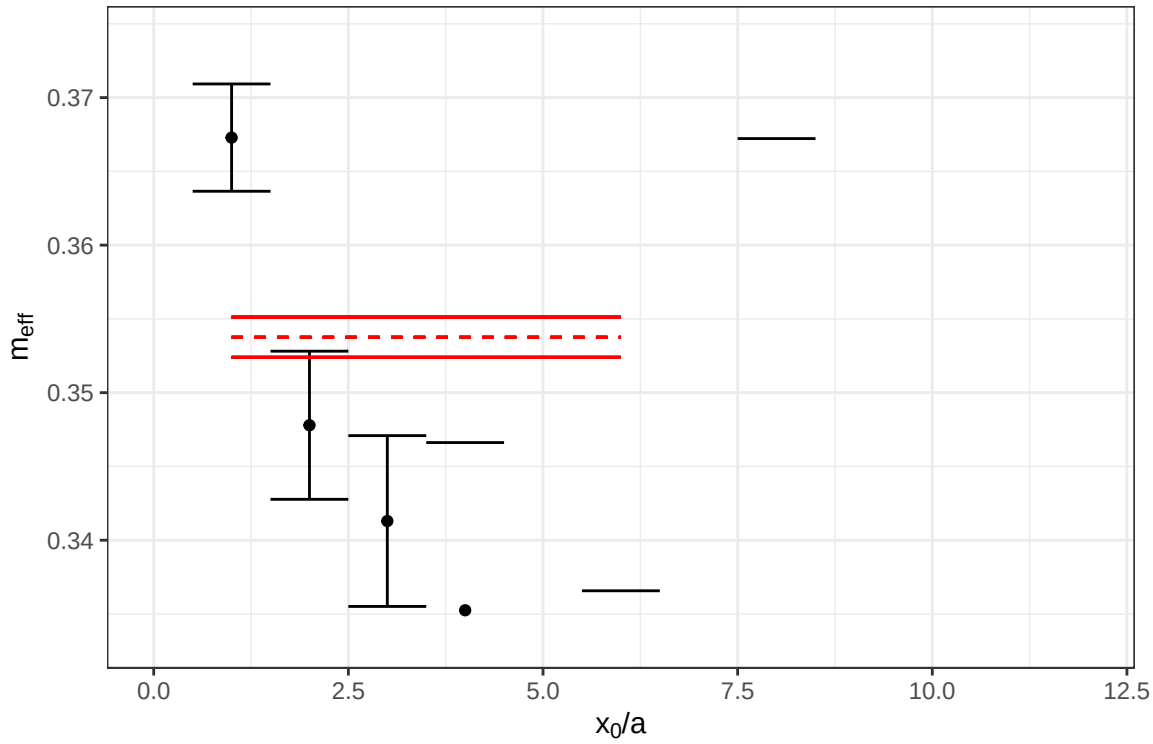
```
Warning: Removed 4 rows containing missing values (geom_point).
```



index n= 2

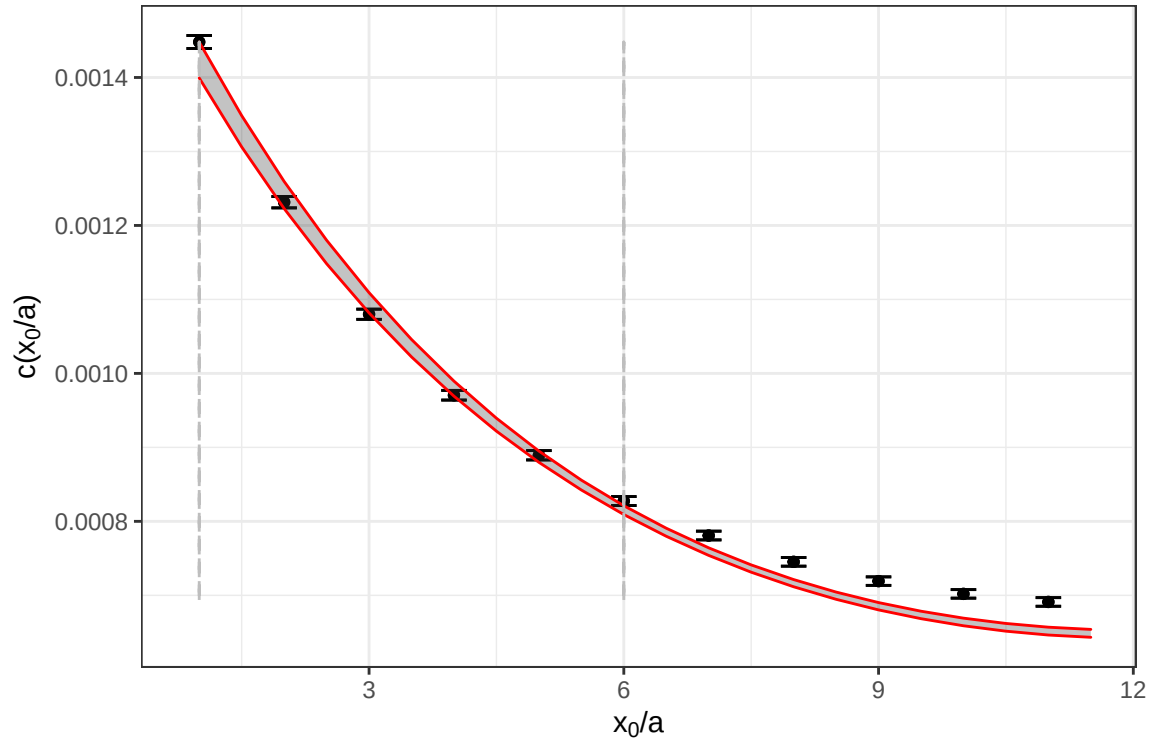
fit: $m_{eff} = 0.353756 \pm 0.001360$

```
Warning: Removed 6 rows containing missing values (geom_point).
```



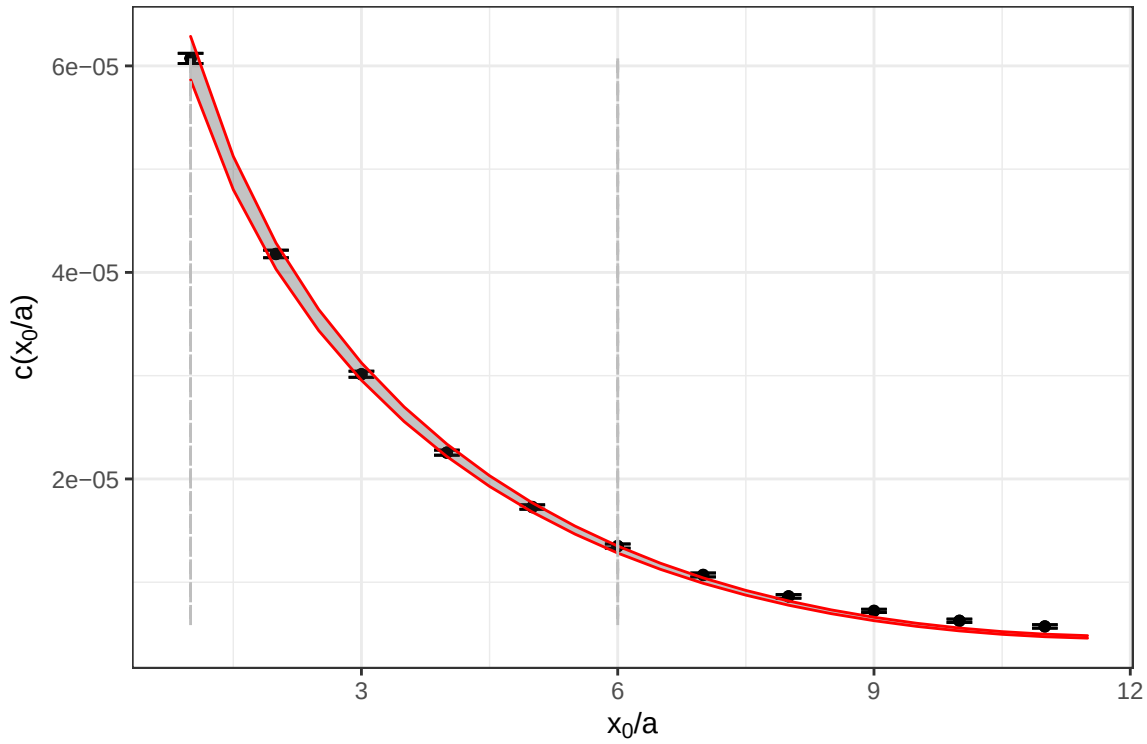
Three particle energy index n= 0

$P[1] = 0.000129 \pm 0.000356$ $P[2] = 0.021911 \pm 0.000234$ $P[3] = 0.021351 \pm 0.000336$



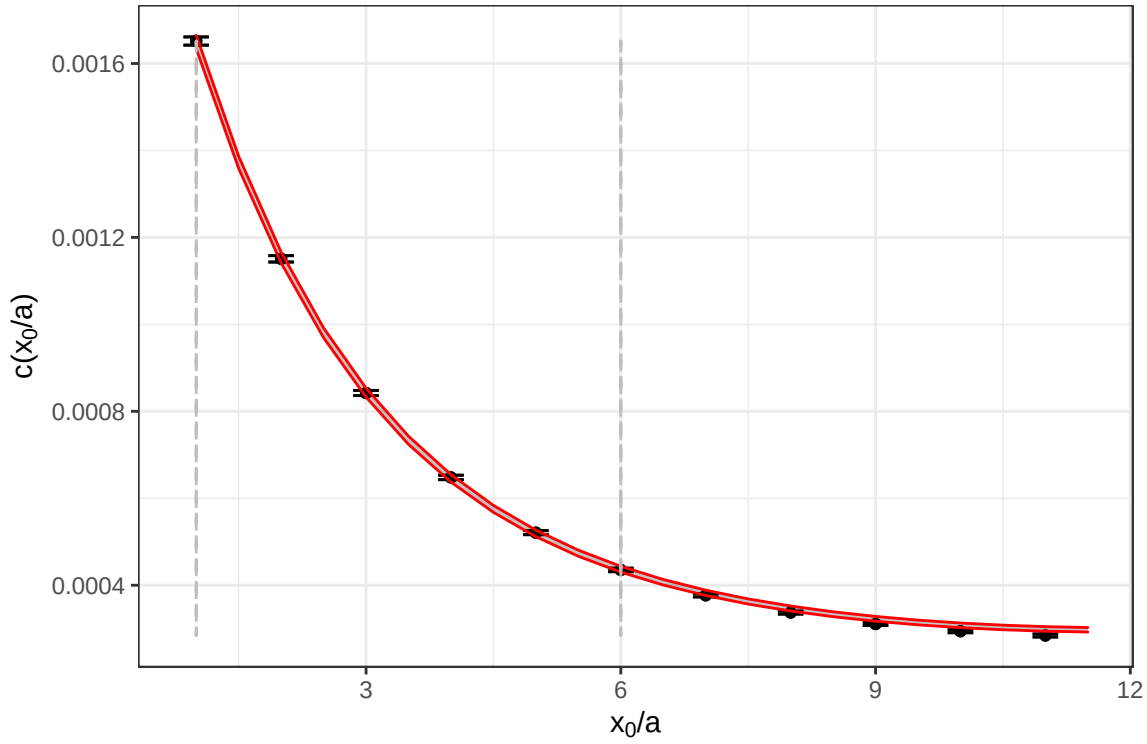
index n= 1

$P[1] = 1.442154 \pm 0.058761$ $P[2] = 0.008345 \pm 0.000274$ $P[3] = 57.234693 \pm 20.937798$



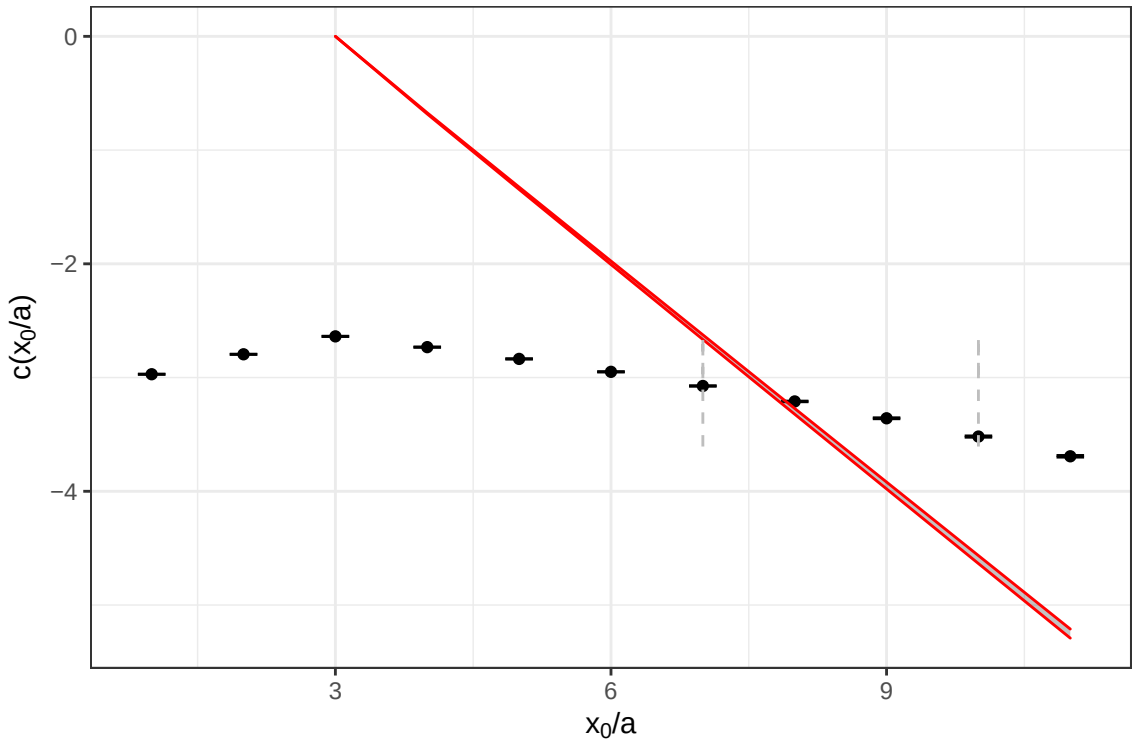
index n= 2

$P[1] = 0.496624 \pm 0.002531$ $P[2] = 0.062216 \pm 0.000222$ $P[3] = 1.543986 \pm 0.027375$



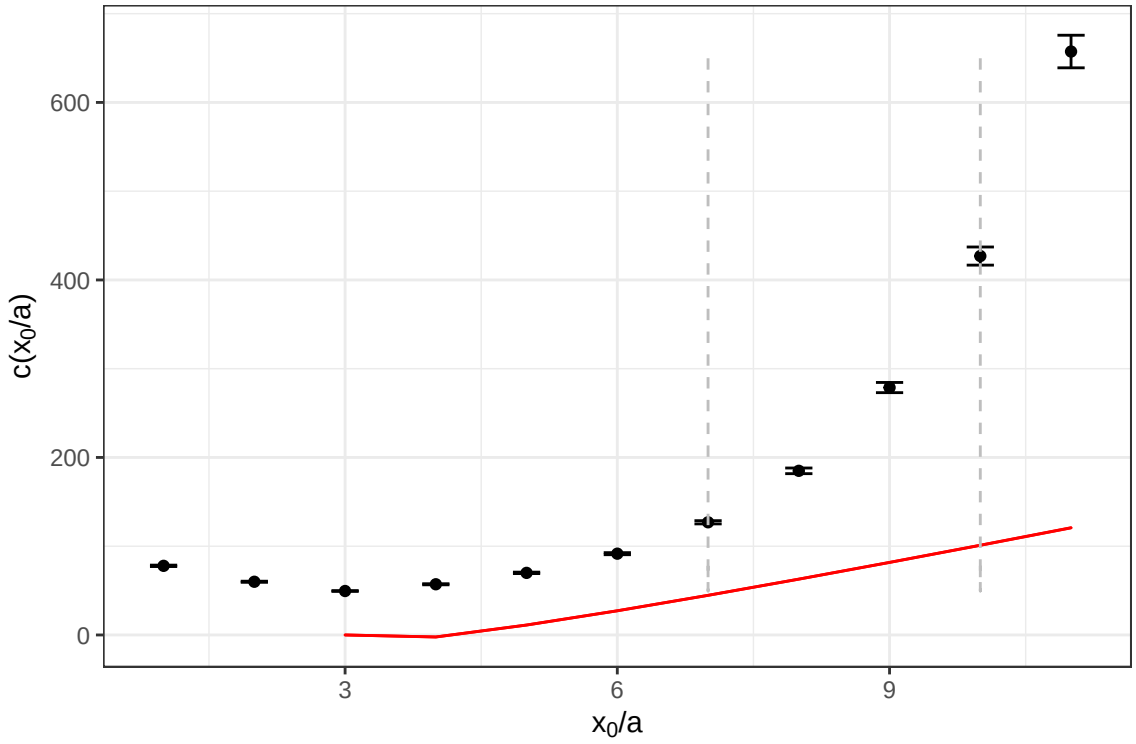
C4_BH index n= 0 #E4_0

$P[1] = -0.154705 \pm 0.001158$



index n= 1 #E4_1

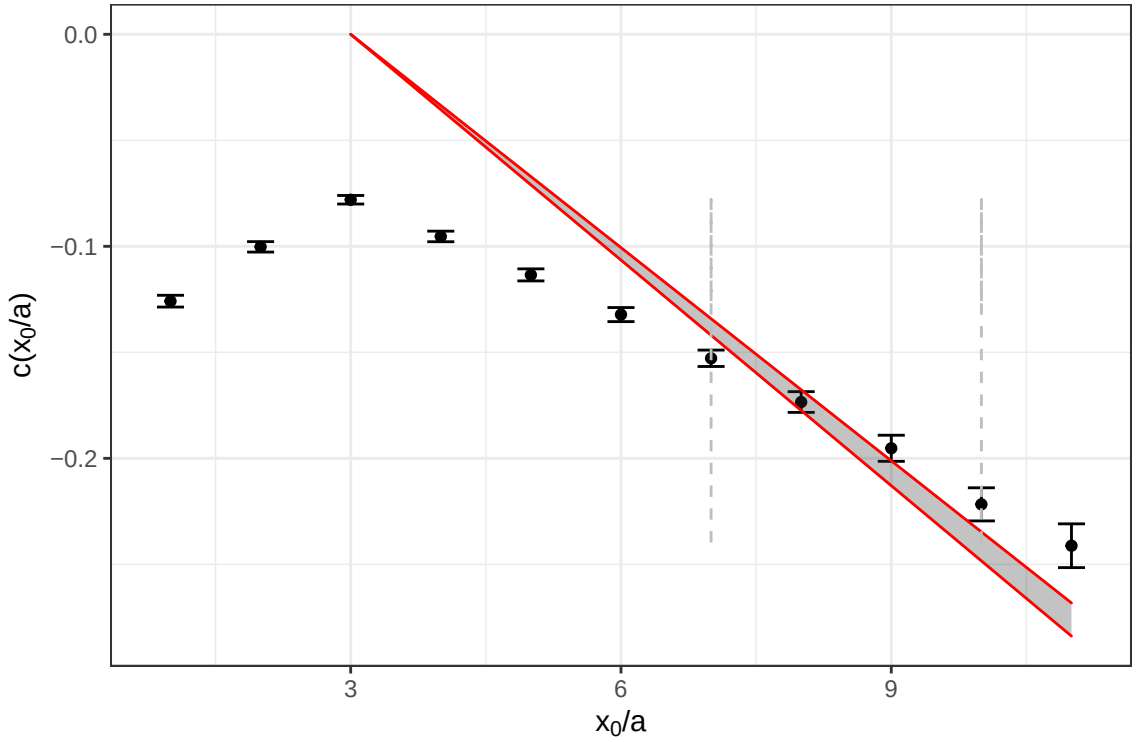
$P[1] = 1.914733 \pm 0.003523$



index n= 2 #E4

$P[1] = -0.004054 \pm 0.000115$

```
Warning in `[<-.data.frame`(`*tmp*`, count + 1, , value = list(10, 24,
0.0829348699475182, : provided 41 variables to replace 31 variables
```

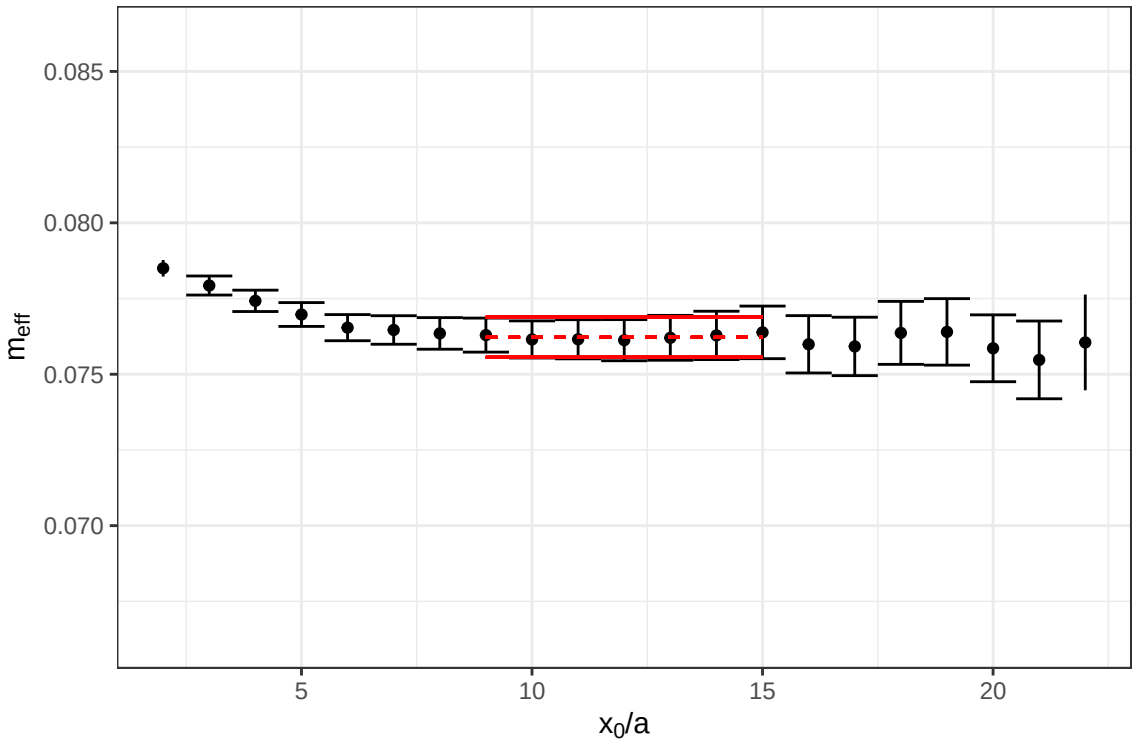


T 48 L 10 $m_0^2 = -4.99$ $m_1^2 = -4.9$ $\lambda_0^2 = 2.5$ $\lambda_1^2 = 2.5$ $\mu^2 = 5$ $g^2 = 0$ **replica = 0**

Mass index n= 0

fit: $m_{eff} = 0.076221 \pm 0.000662$

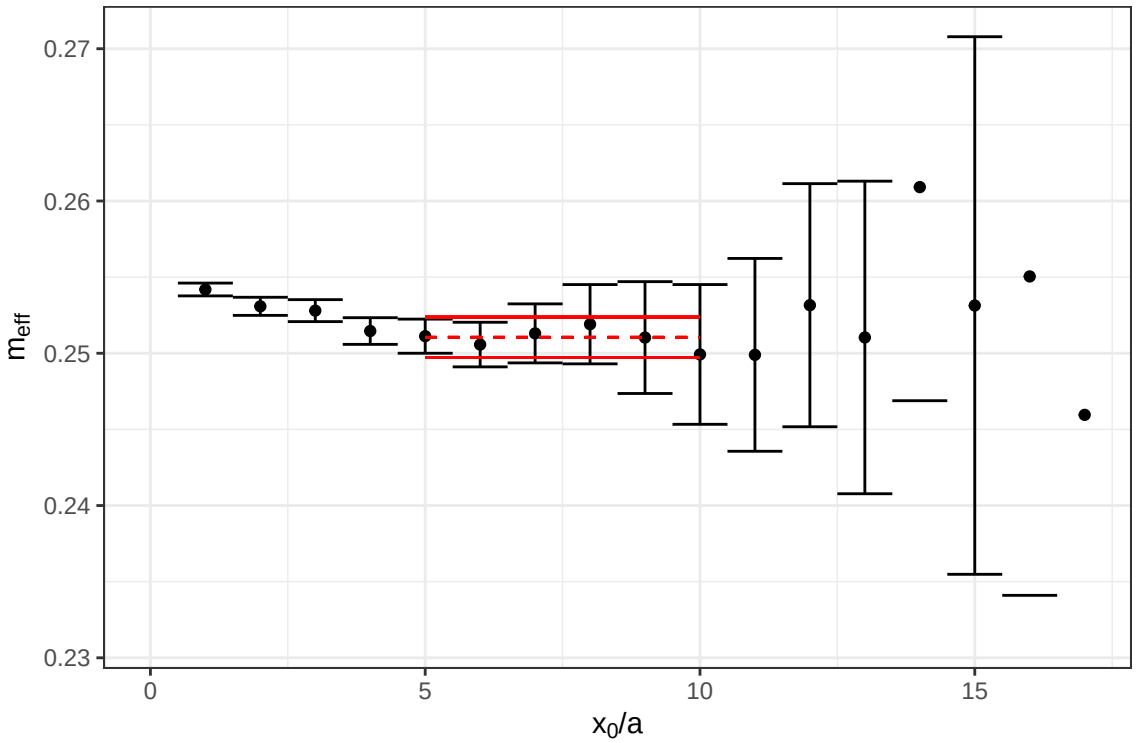
```
Warning: Removed 2 rows containing missing values (geom_point).
```



index n= 1

fit: $m_{eff} = 0.251042 \pm 0.001317$

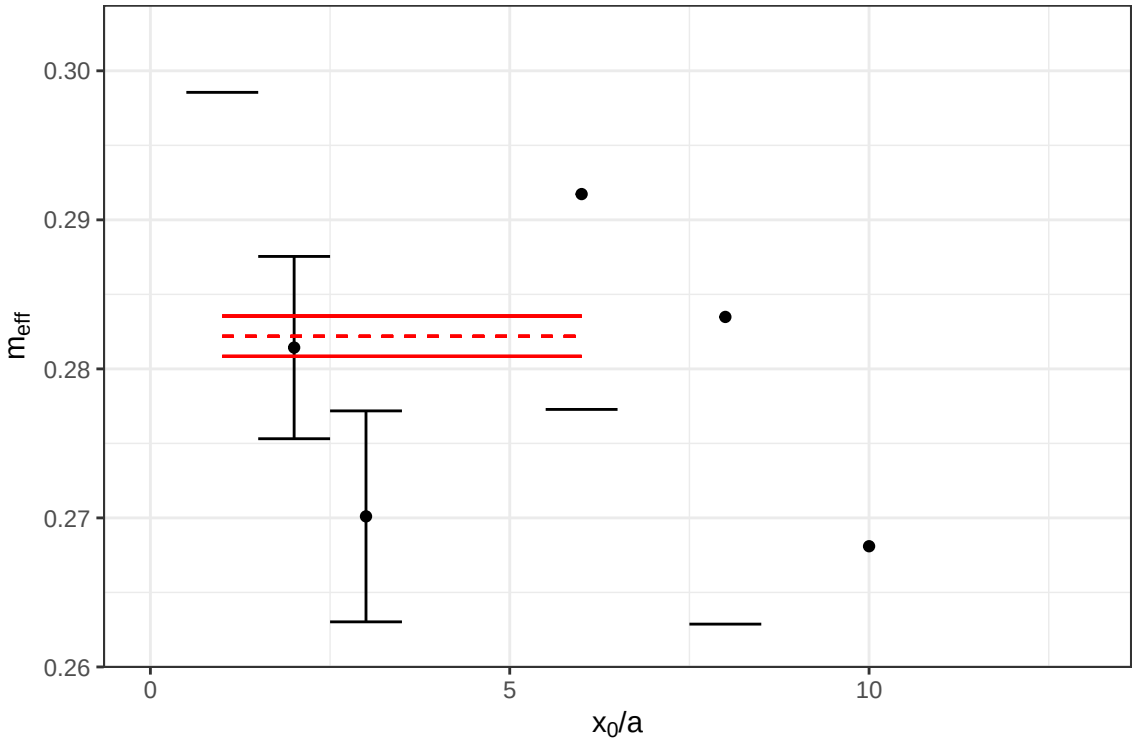
```
Warning: Removed 6 rows containing missing values (geom_point).
```



Two particle energy index n= 0

fit: $m_{eff} = 0.282185 \pm 0.001346$

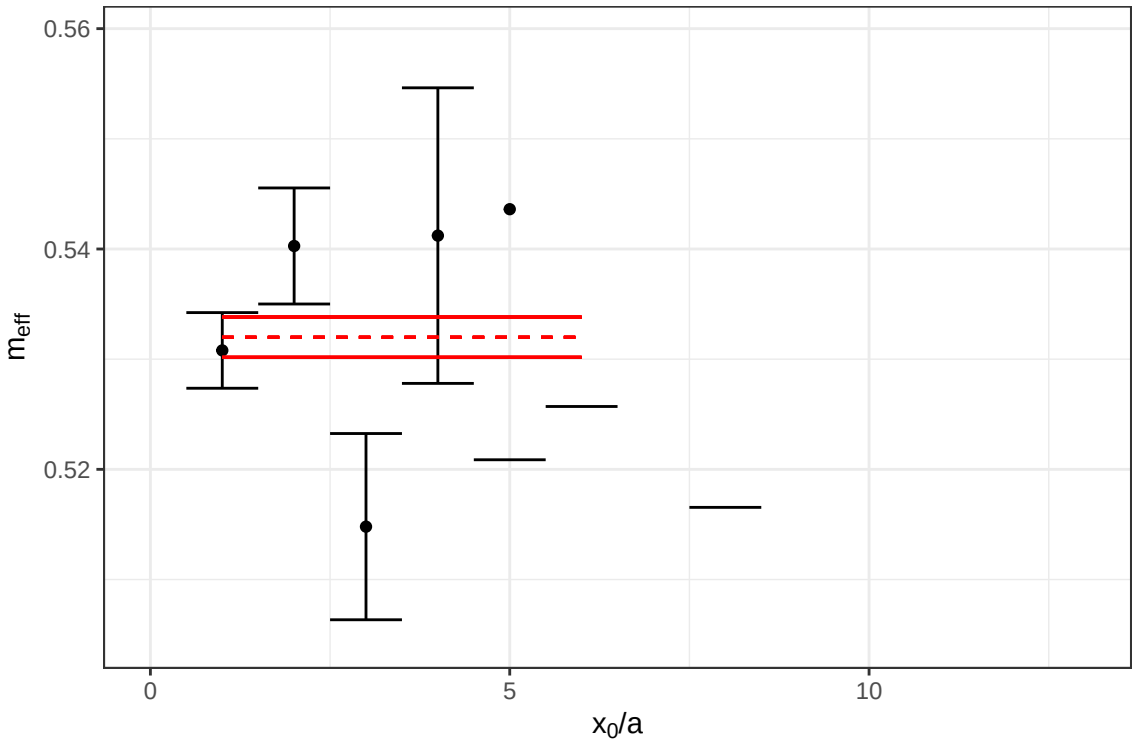
```
Warning: Removed 12 rows containing missing values (geom_point).
```



index n= 1

fit: $m_{eff} = 0.531990 \pm 0.001821$

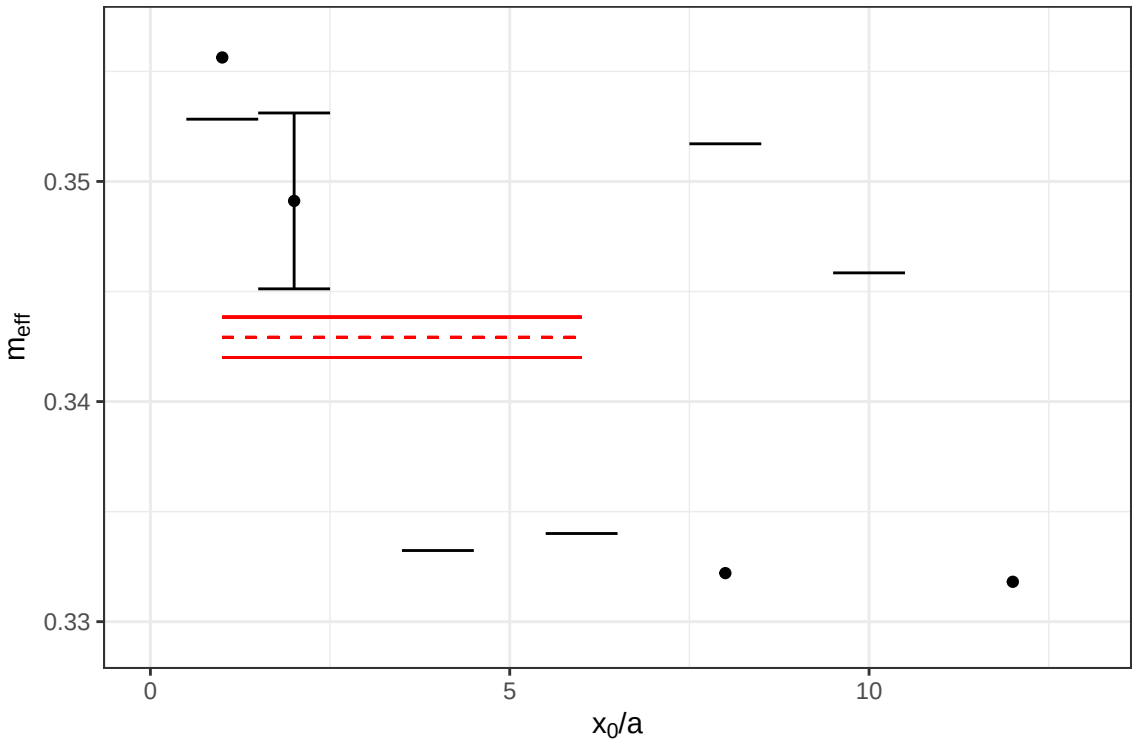
```
Warning: Removed 7 rows containing missing values (geom_point).
```



index n= 2

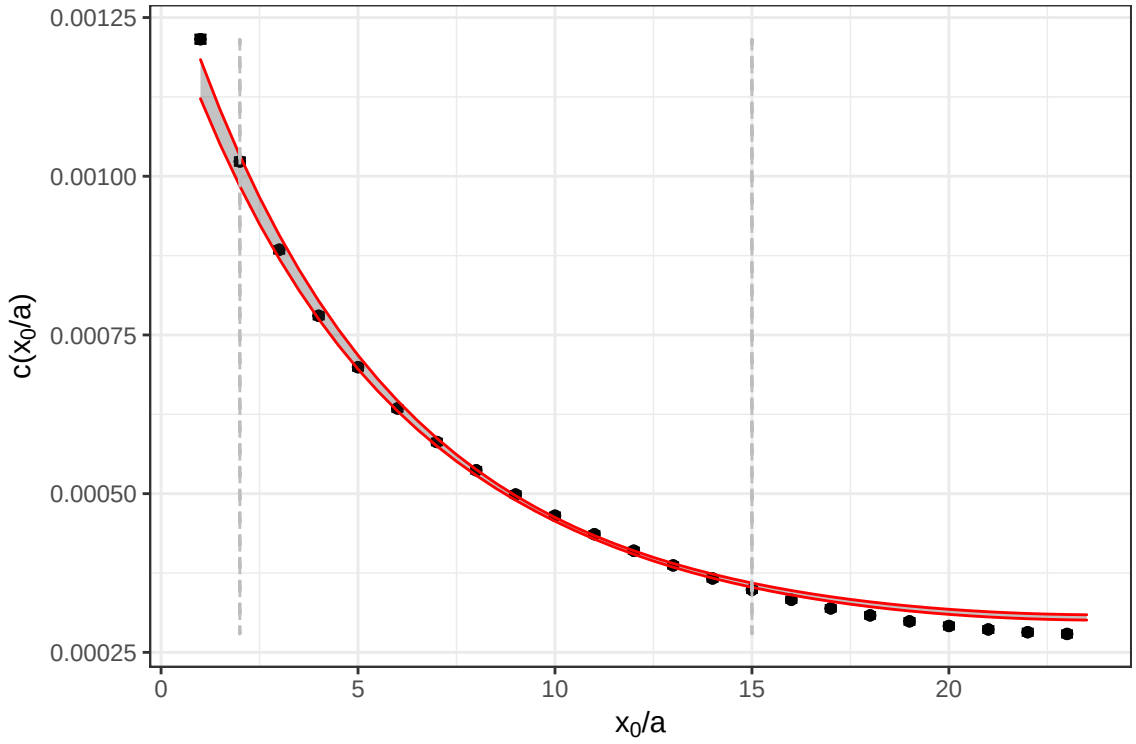
fit: $m_{eff} = 0.342916 \pm 0.000911$

```
Warning: Removed 15 rows containing missing values (geom_point).
```



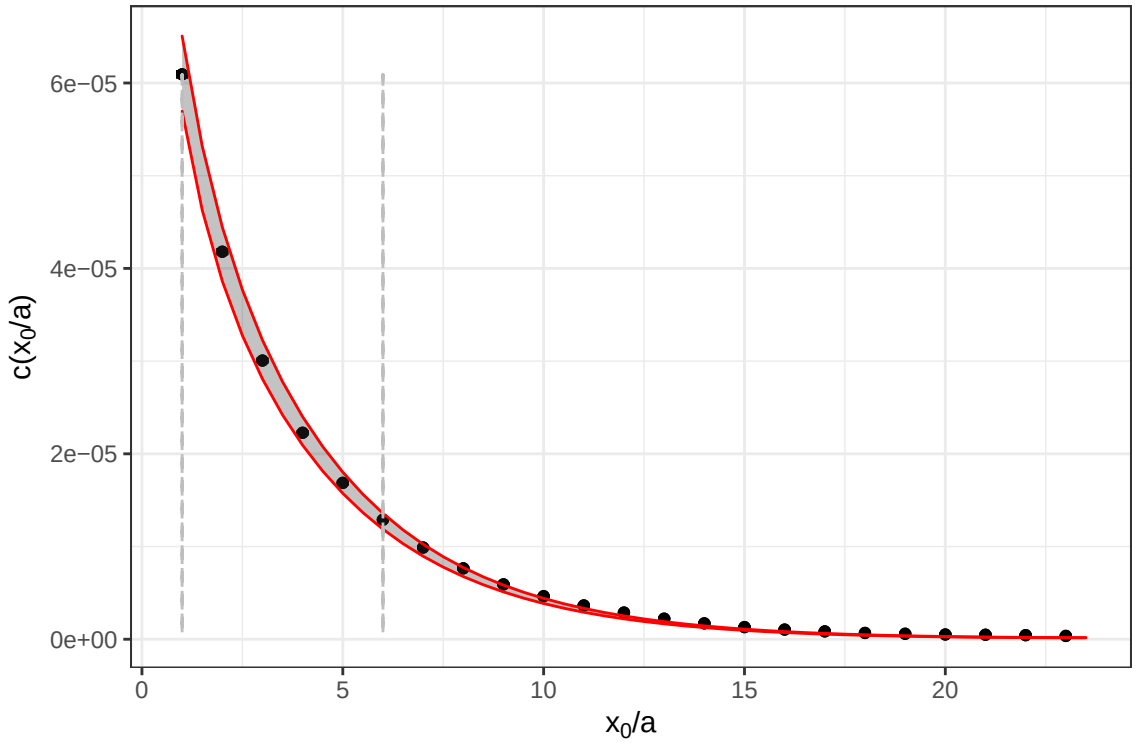
Three particle energy index n= 0

$P[1] = -0.043974 \pm 0.001375$ $P[2] = 0.010093 \pm 0.000199$ $P[3] = 0.005148 \pm 0.000204$



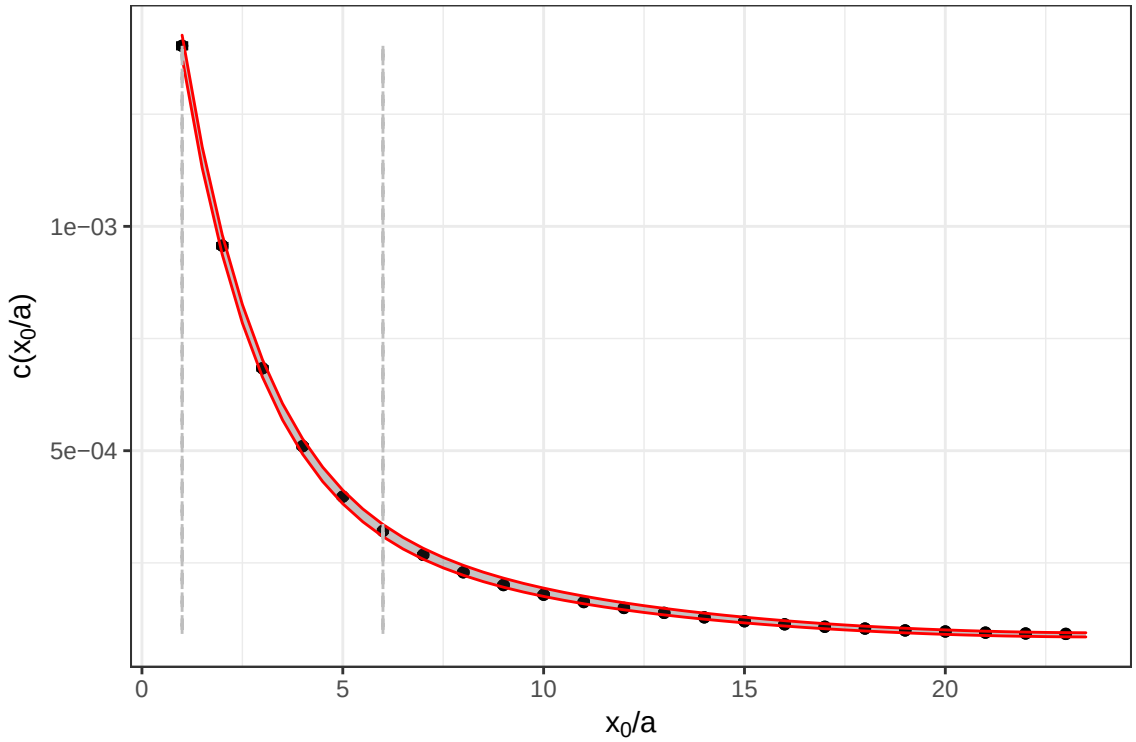
index n= 1

$P[1] = 1.328801 \pm 0.073440$ $P[2] = 0.008350 \pm 0.000131$ $P[3] = 68844.484736 \pm 56244.097674$



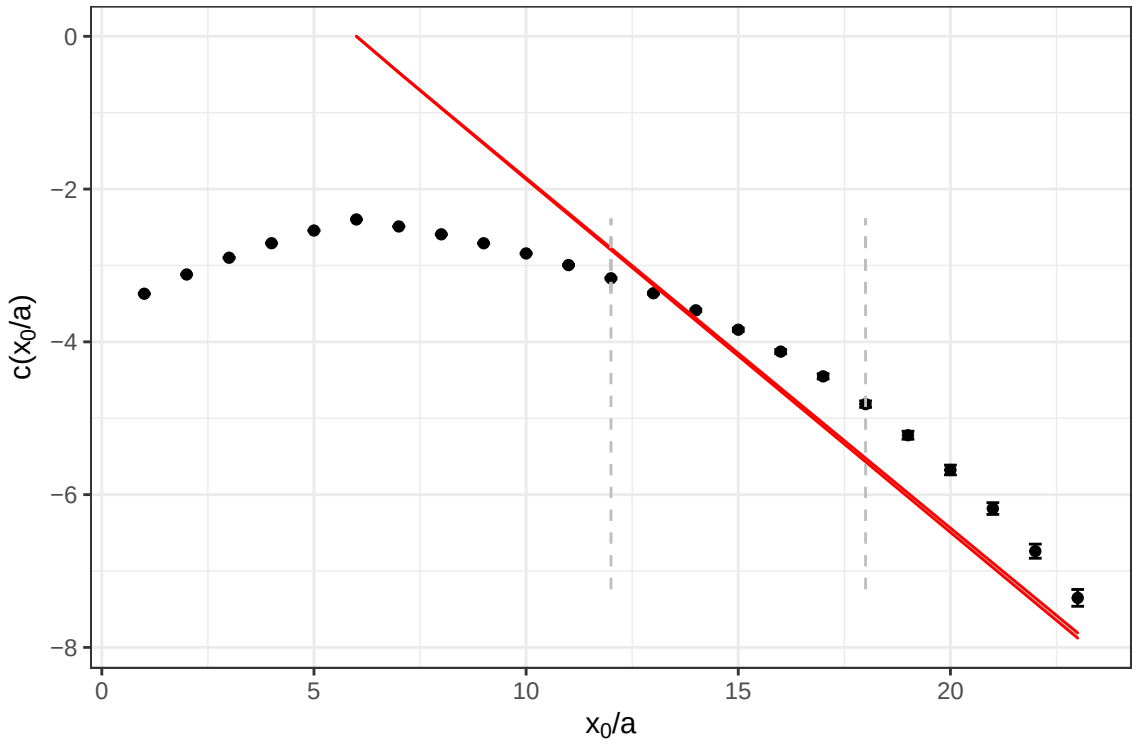
index n= 2

$P[1] = 0.510910 \pm 0.002619$ $P[2] = -0.058485 \pm 0.000151$ $P[3] = -88.429593 \pm 2.497819$



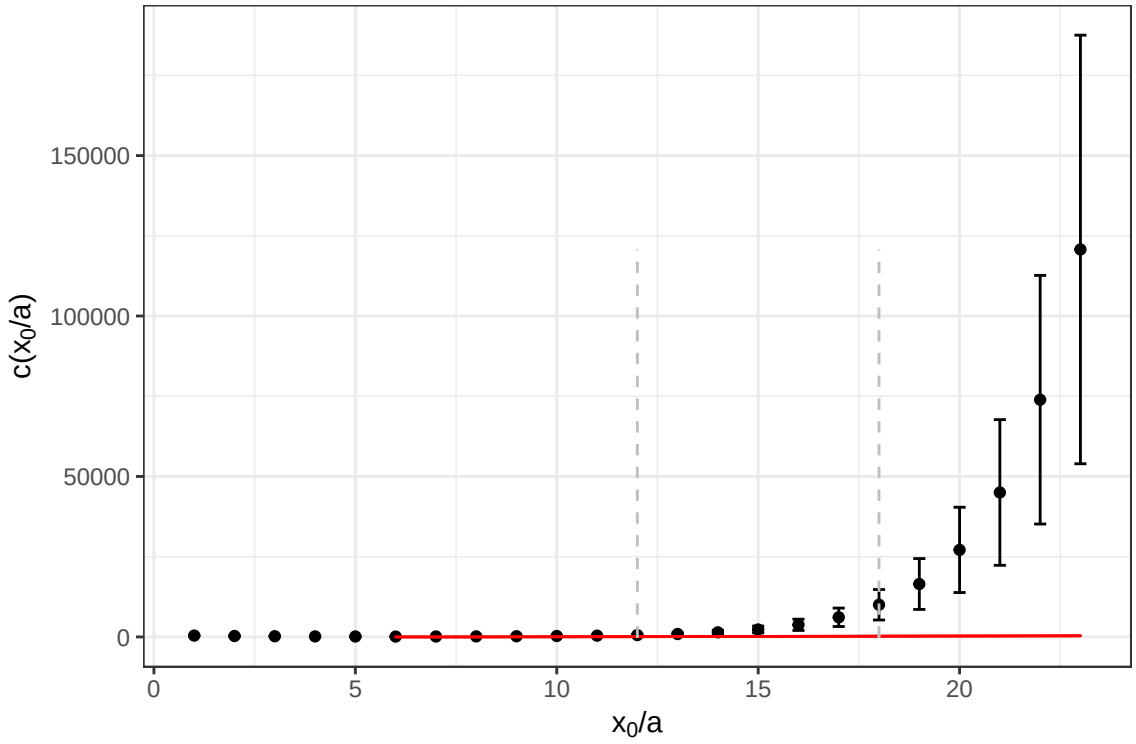
C4_BH index n= 0 #E4_0

$P[1] = -0.119356 \pm 0.000519$



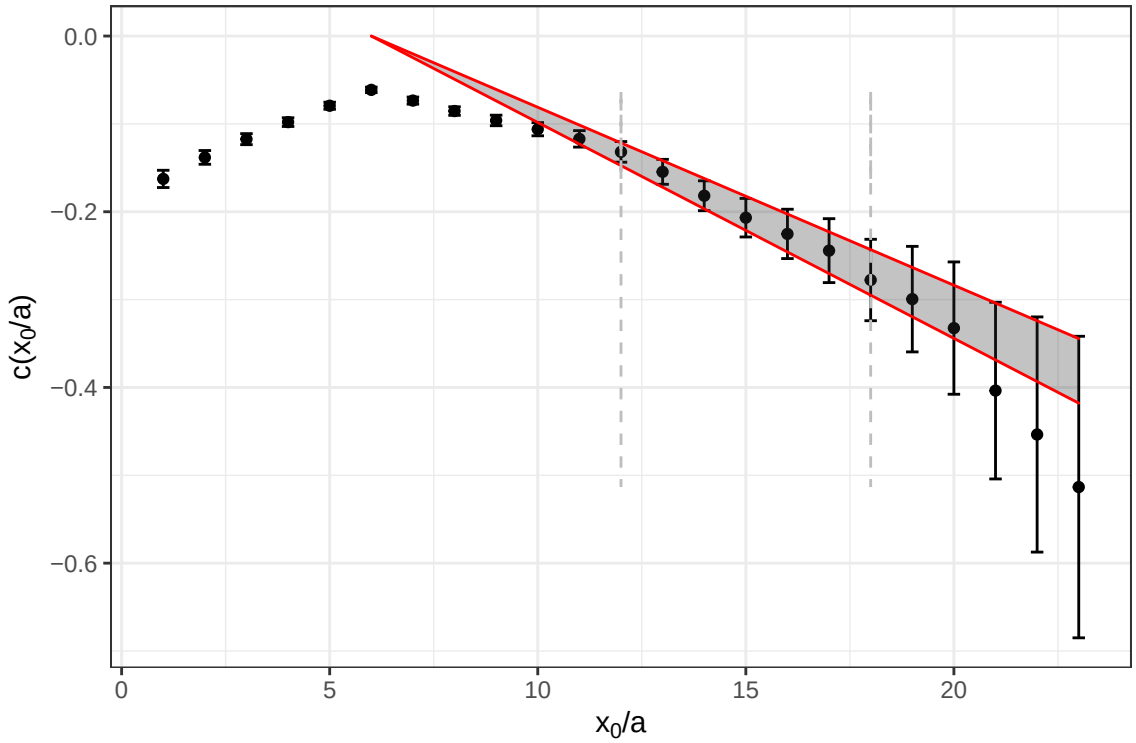
index n= 1 #E4_1

$P[1] = 2.418731 \pm 0.005869$



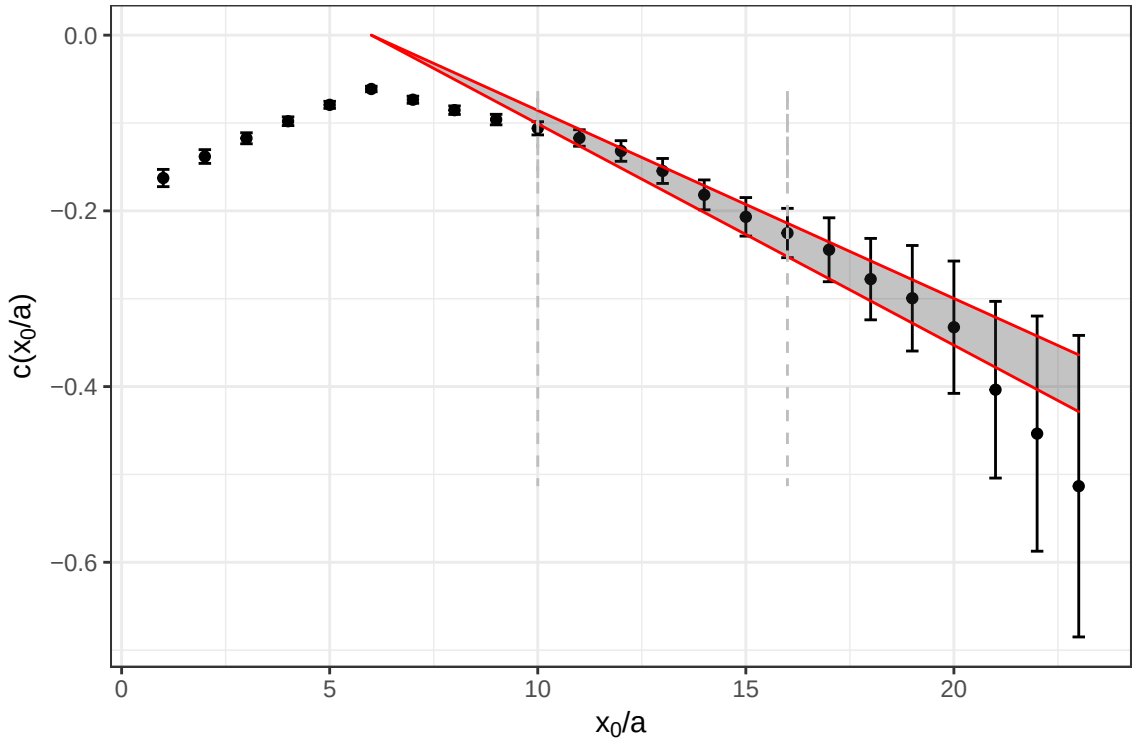
index n= 2 #E4

$P[1] = -0.002725 \pm 0.000263$



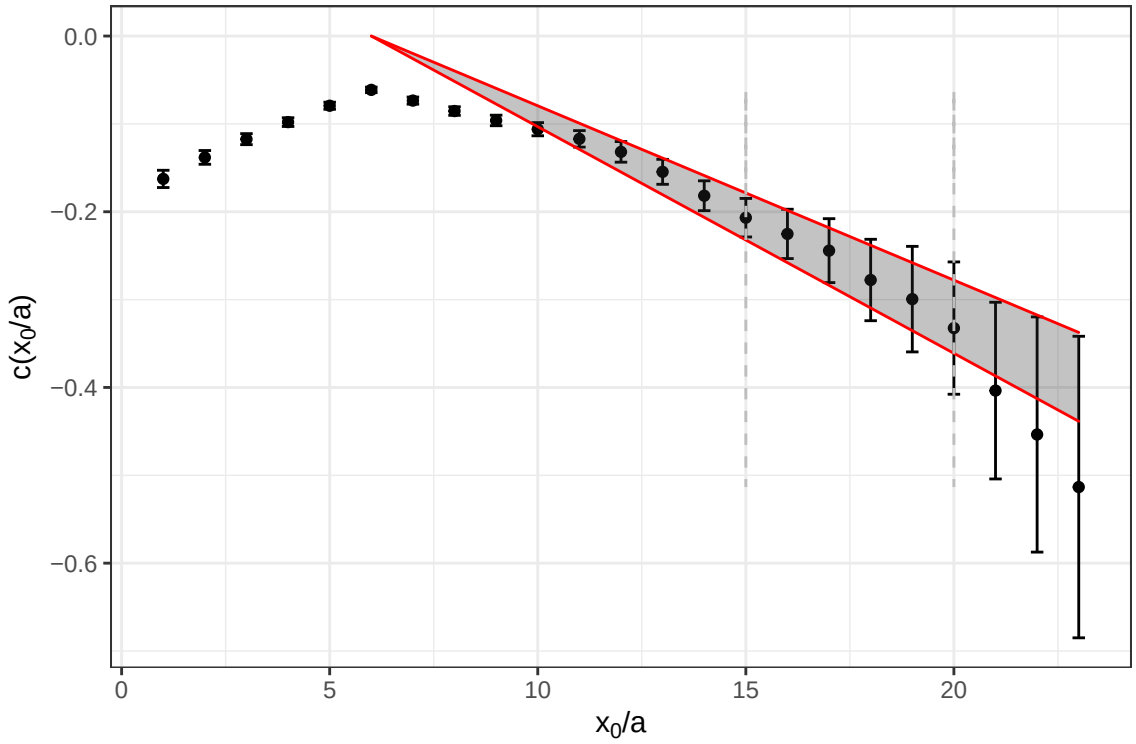
index n= 3 #E4_plat1

$P[1] = -0.002833 \pm 0.000231$



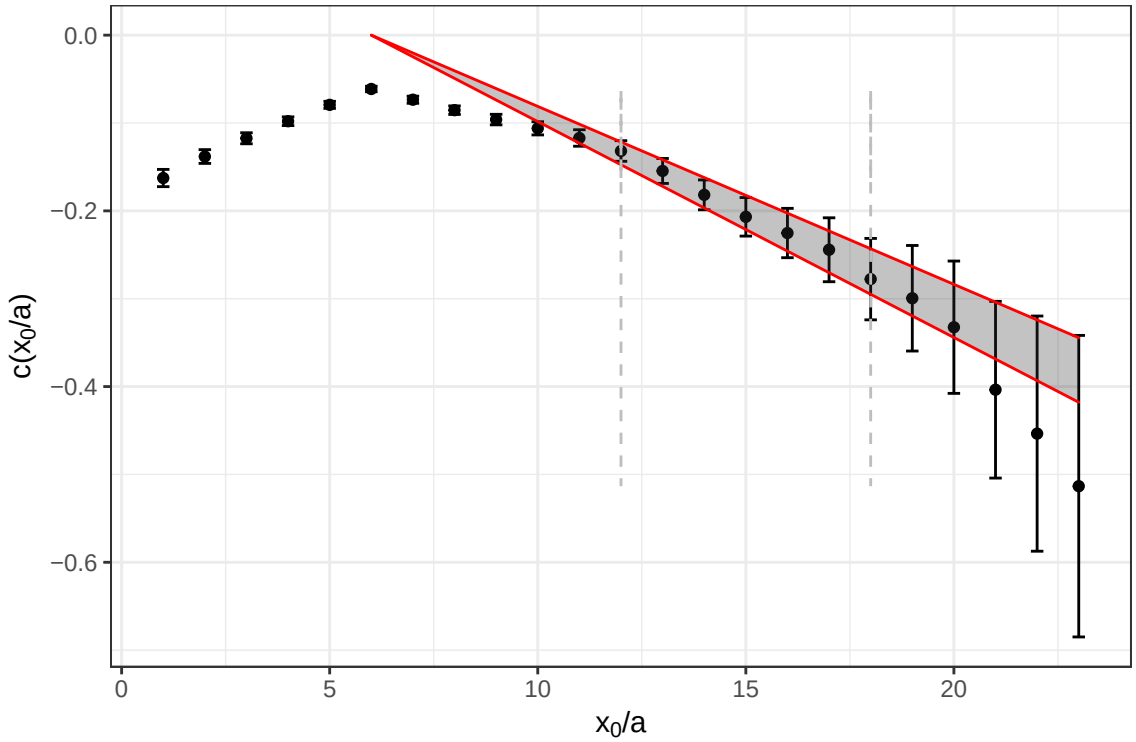
index n= 4 #E4_plat2

$P[1] = -0.002774 \pm 0.000361$



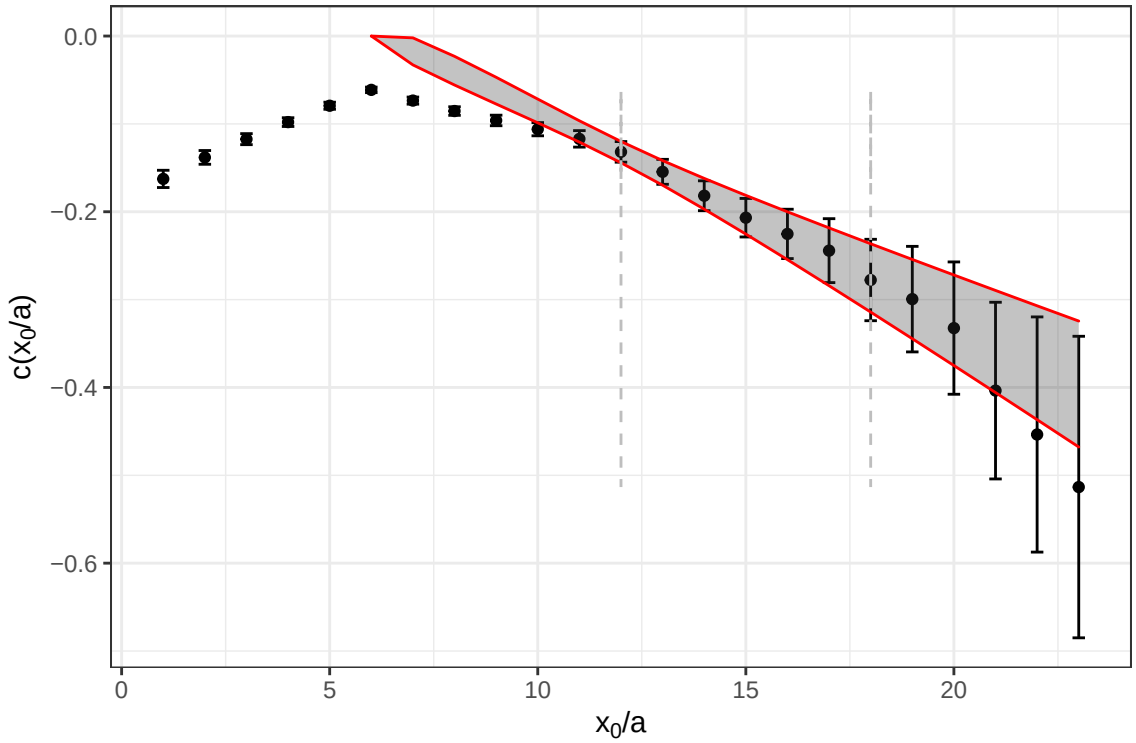
index n= 5 #E4_line

$P[1] = -0.002725 \pm 0.000263$



index n= 6 #E4_2p

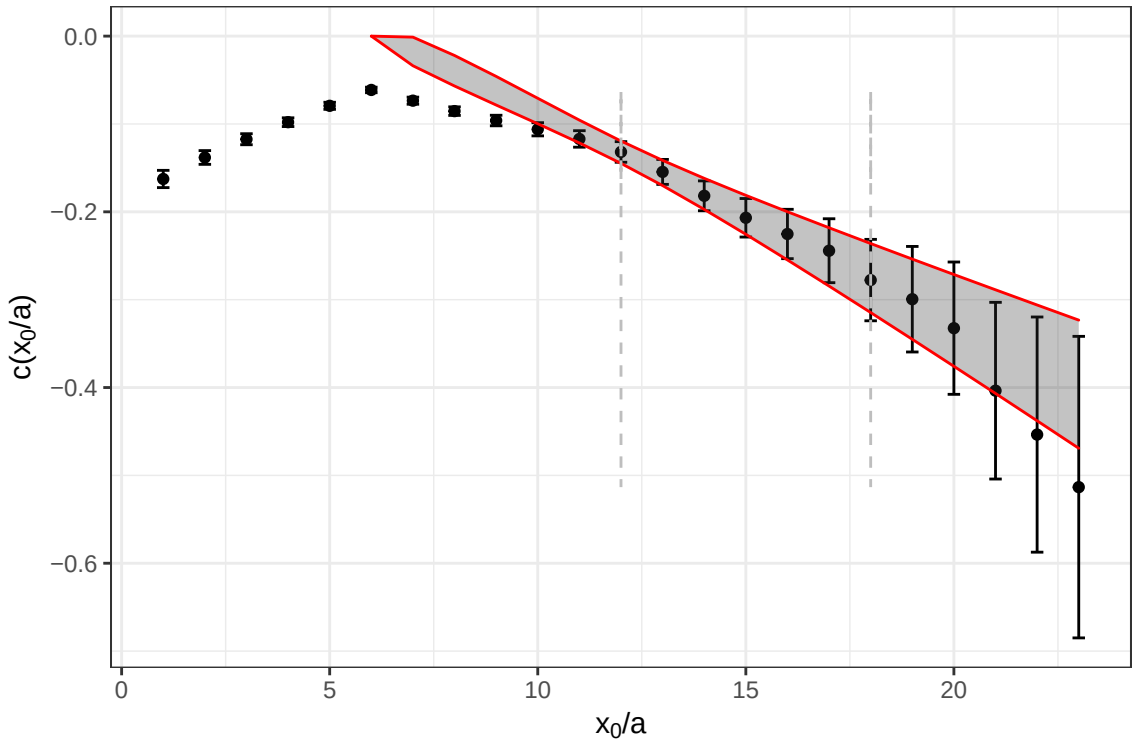
$P[1] = -0.003061 \pm 0.001216$ $P[2] = 0.038953 \pm 0.126427$



index n= 7 #E4_3p

$P[1] = -0.003062 \pm 0.001260$ $P[2] = 0.039081 \pm 0.132652$ $P[3] = 1950146580.424880 \pm 33879305414.764000$

```
Warning in `[<-.data.frame`(`*tmp*`, count + 1, , value = list(10, 48,
0.0762213573052688, : provided 41 variables to replace 31 variables
```

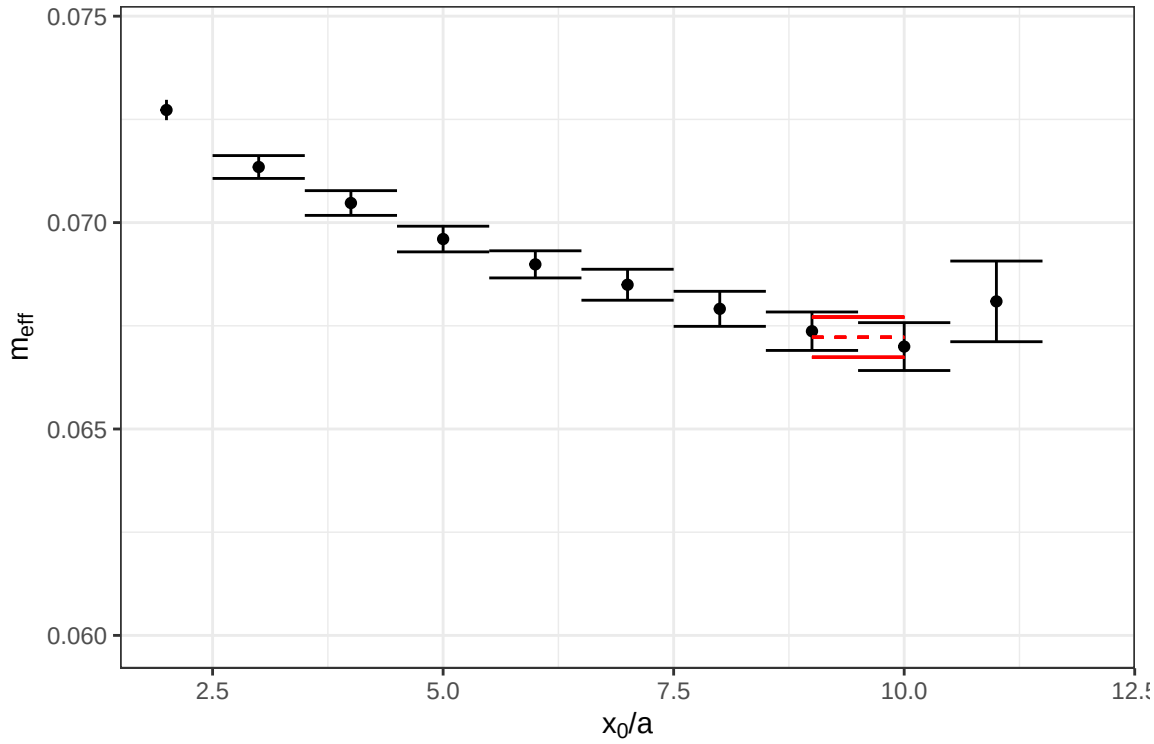


T 24 L 10 $m_0^2 = -5$ $m_1^2 = -4.9$ $\lambda_0^2 = 2.5$ $\lambda_1^2 = 2.5$ $\mu^2 = 5$ $g^2 = 0$ **replica = 0**

Mass index n= 0

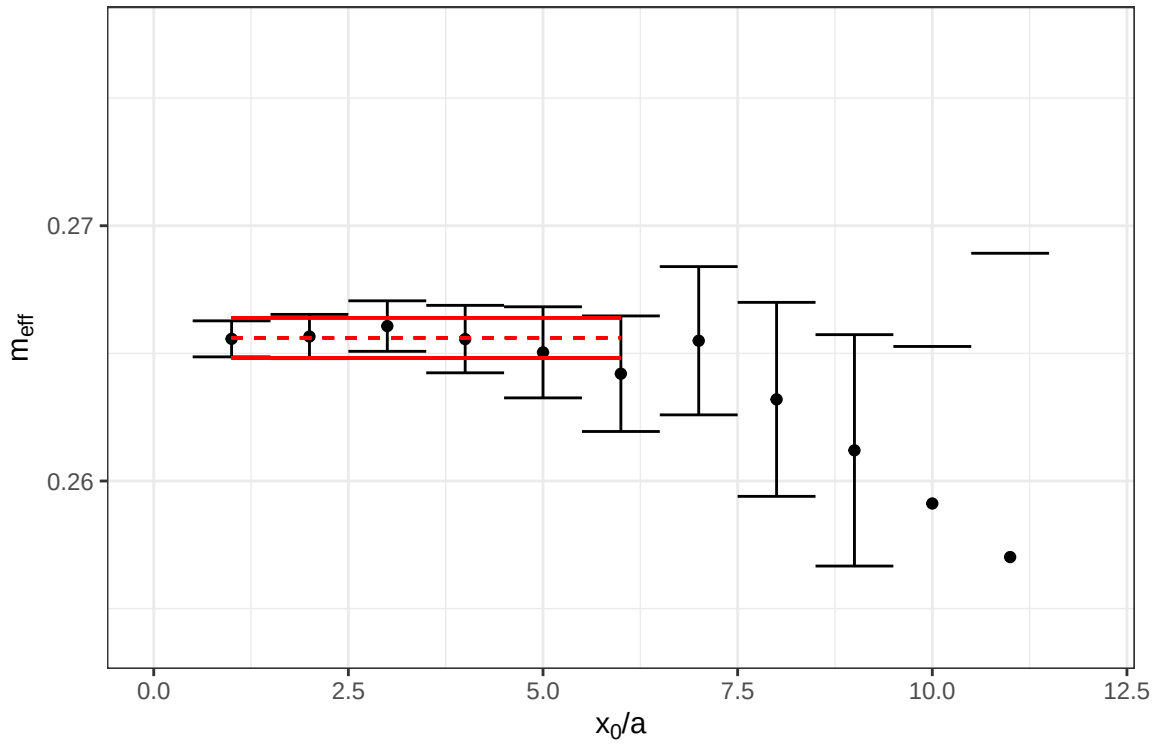
fit: $m_{eff} = 0.067222 \pm 0.000486$

```
Warning: Removed 1 rows containing missing values (geom_point).
```



index n= 1

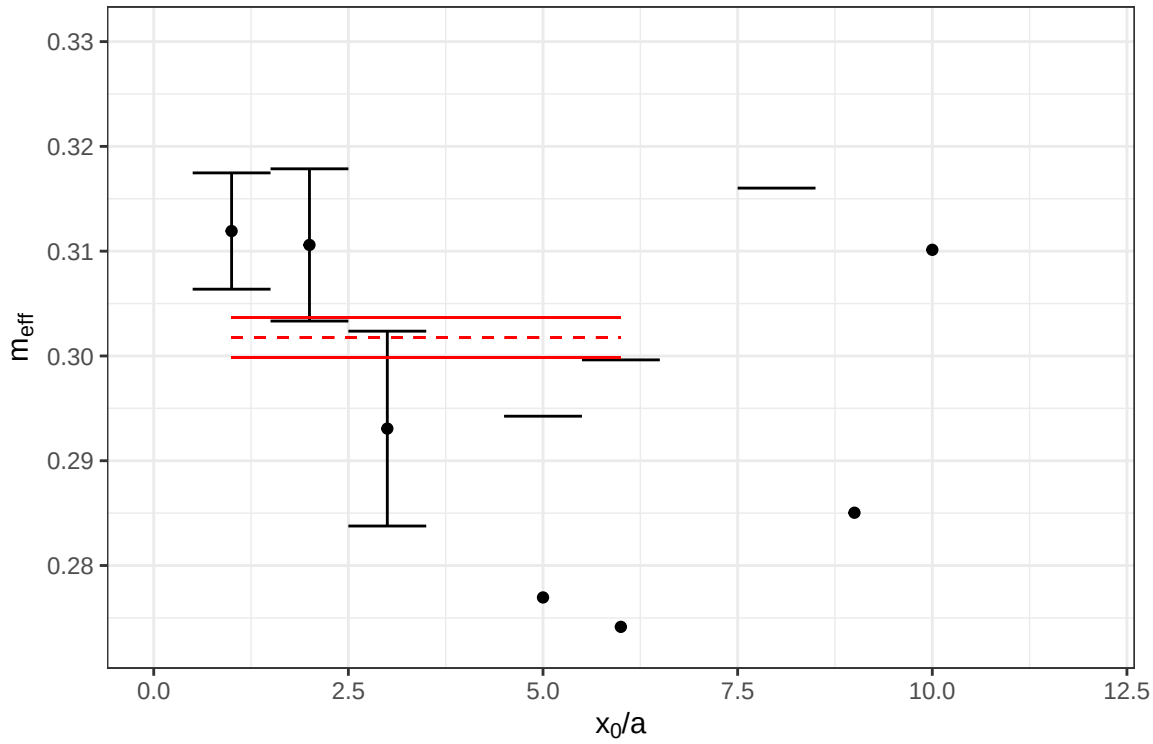
fit: $m_{eff} = 0.265608 \pm 0.000786$



Two particle energy index n= 0

fit: $m_{eff} = 0.301761 \pm 0.001914$

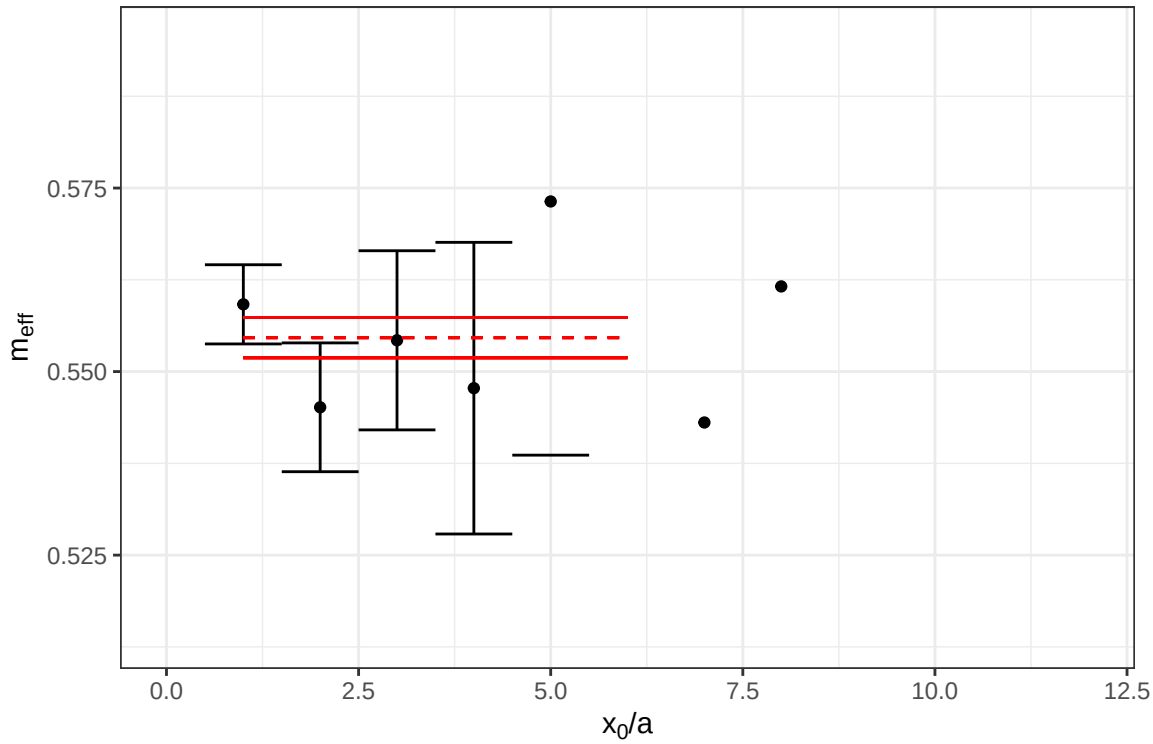
```
Warning: Removed 3 rows containing missing values (geom_point).
```



index n= 1

fit: $m_{eff} = 0.554623 \pm 0.002732$

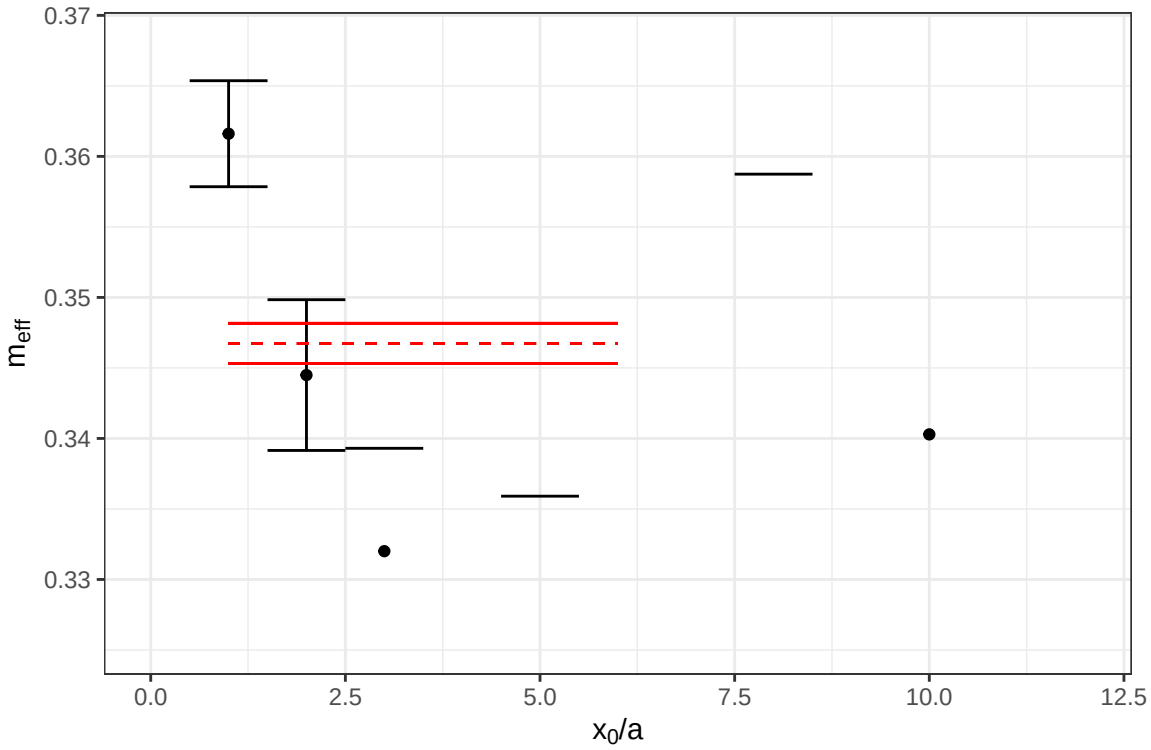
```
Warning: Removed 2 rows containing missing values (geom_point).
```



index n= 2

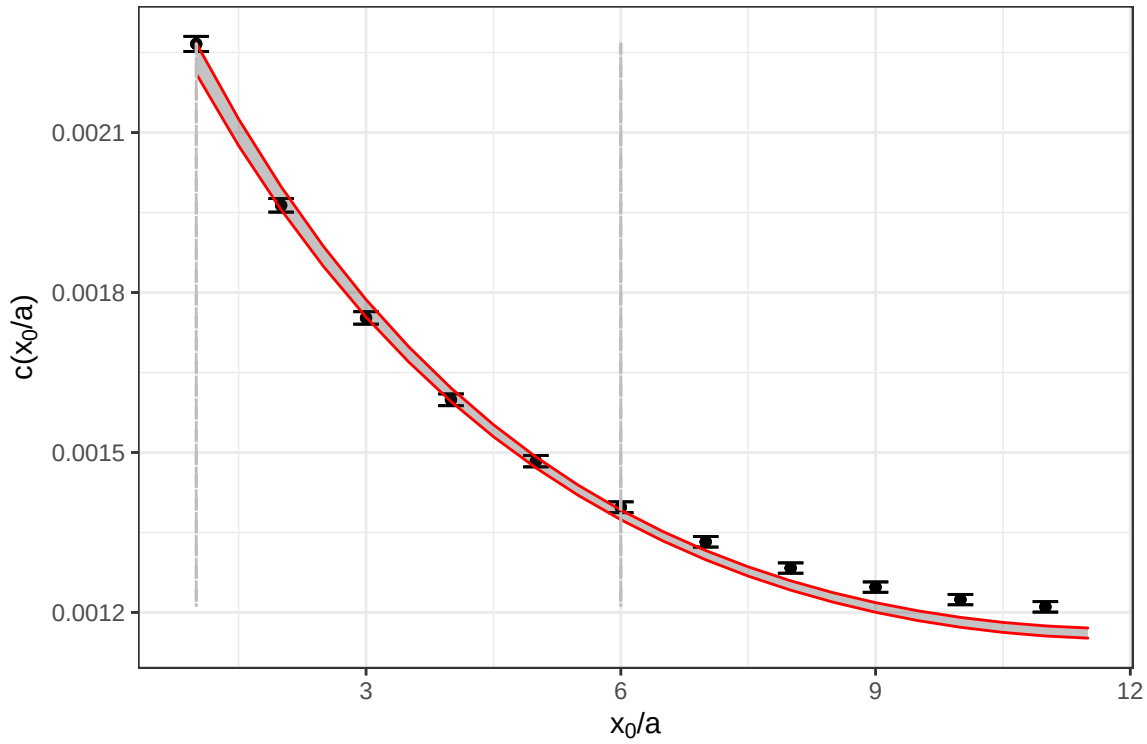
fit: $m_{eff} = 0.346734 \pm 0.001422$

```
Warning: Removed 6 rows containing missing values (geom_point).
```



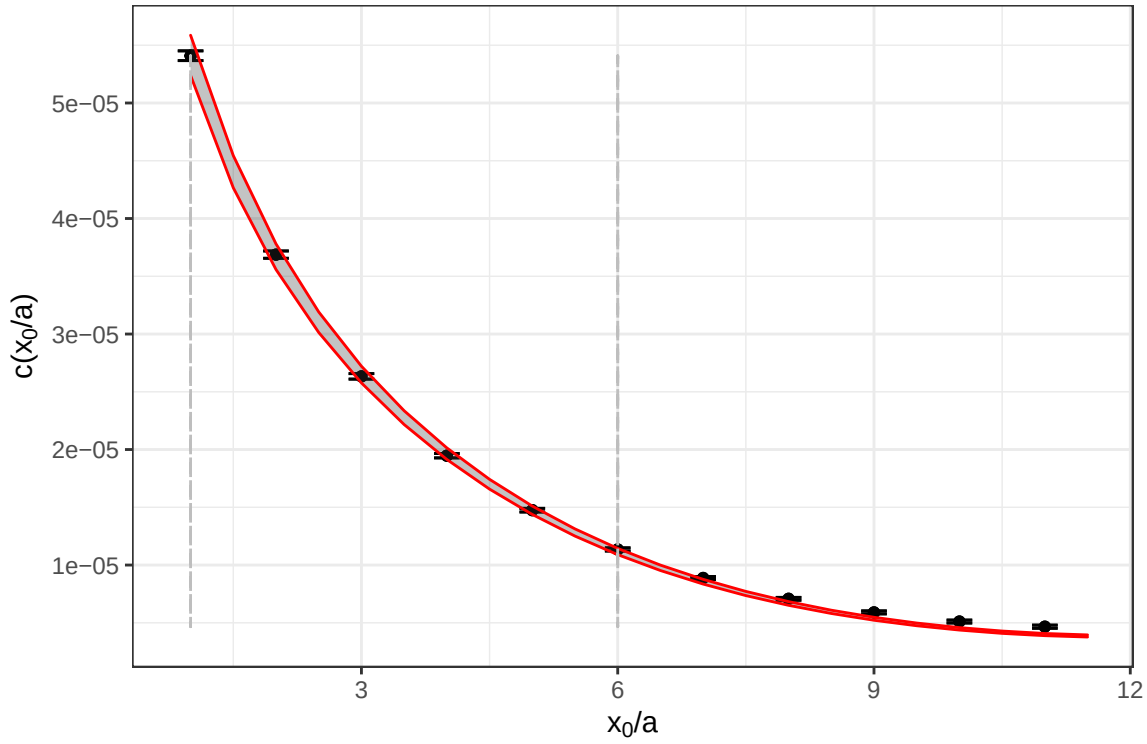
Three particle energy index n= 0

$P[1] = 0.000103 \pm 0.000172$ $P[2] = -0.031141 \pm 0.000209$ $P[3] = 0.020724 \pm 0.000292$



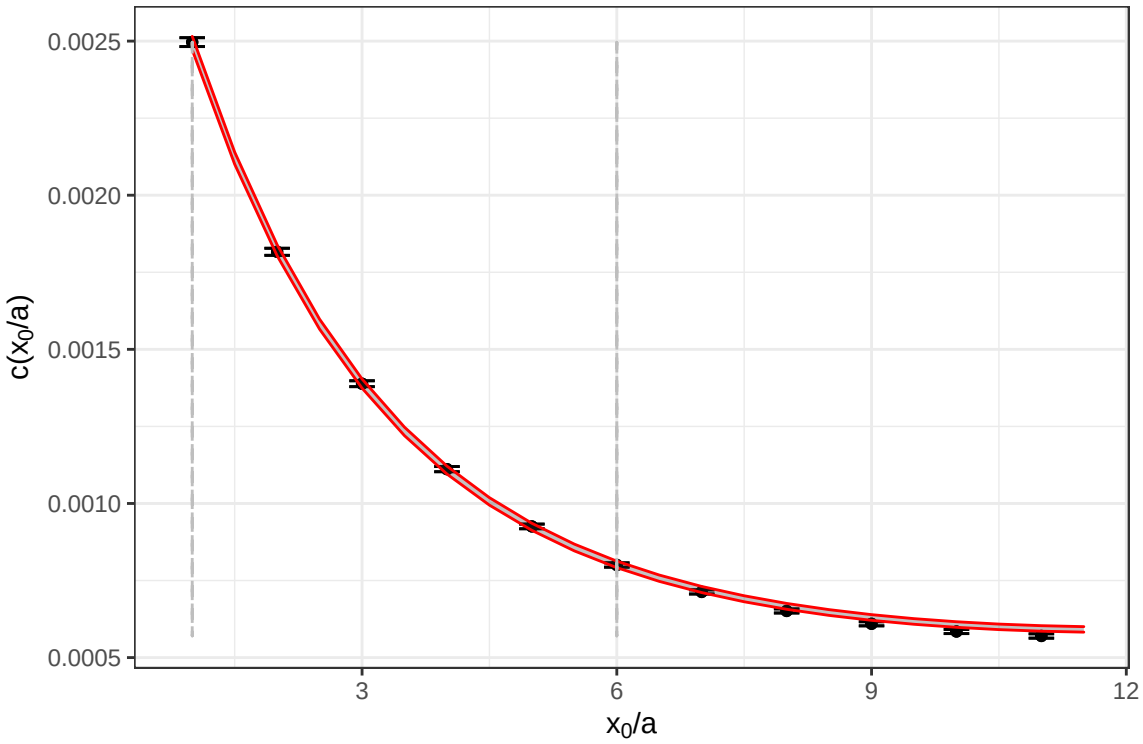
index n= 1

$P[1] = 1.308939 \pm 0.071829$ $P[2] = 0.007765 \pm 0.000170$ $P[3] = 24.774865 \pm 10.898824$



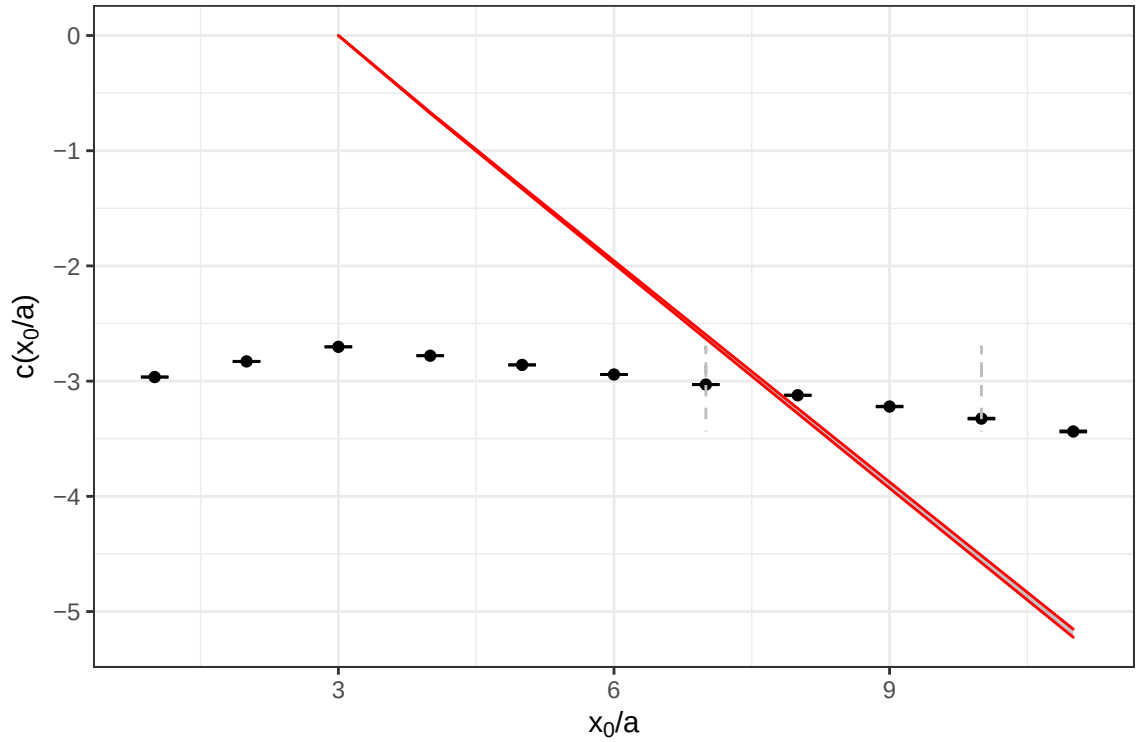
index n= 2

$P[1] = 0.468042 \pm 0.002156$ $P[2] = 0.073241 \pm 0.000263$ $P[3] = -1.950008 \pm 0.031155$



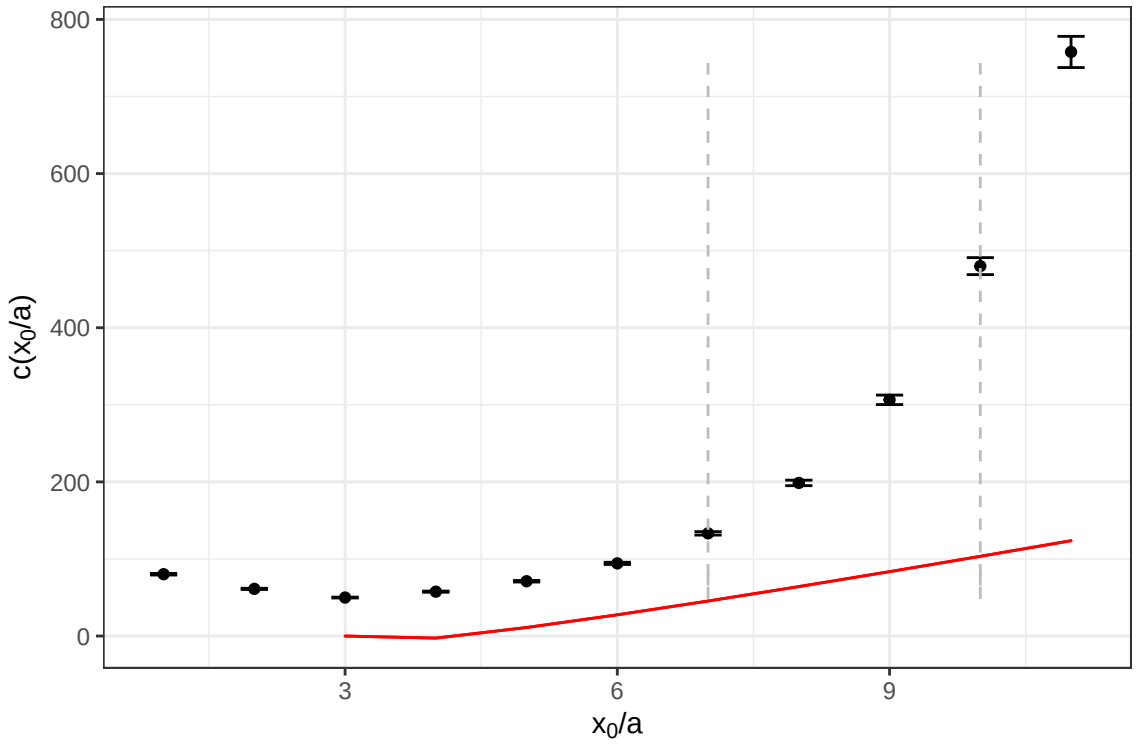
C4_BH index n= 0 #E4_0

$P[1] = -0.188265 \pm 0.001264$



index n= 1 #E4_1

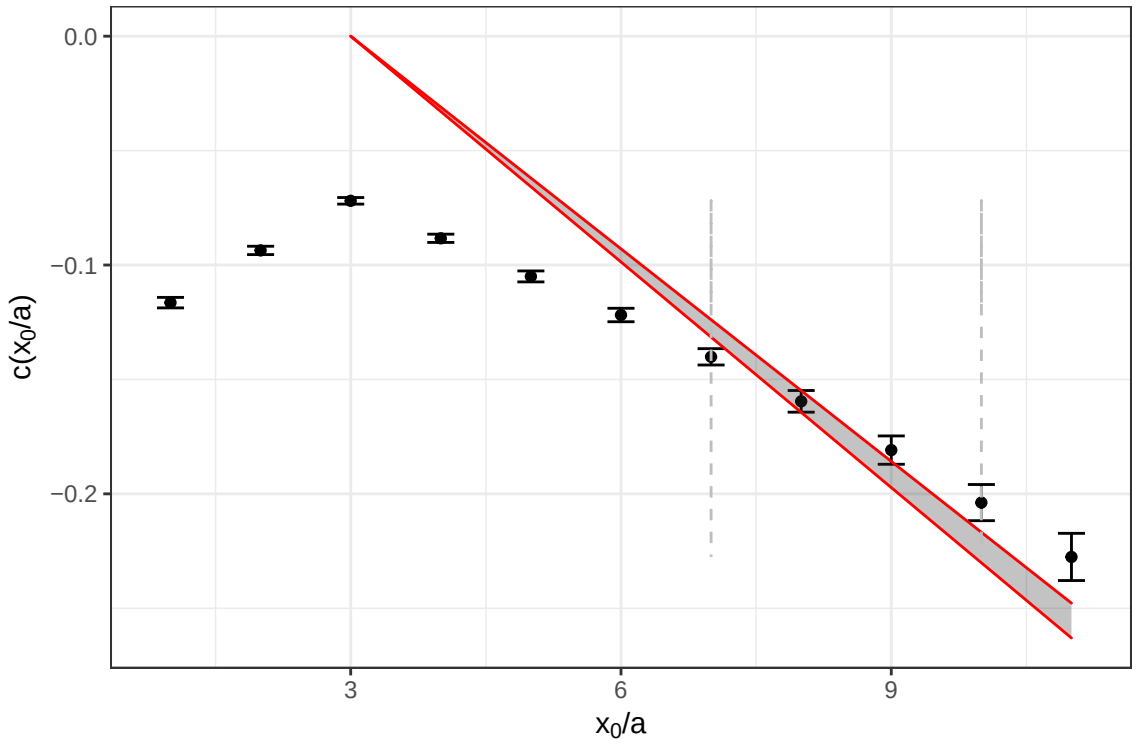
$P[1] = 1.901117 \pm 0.002900$



index n= 2 #E4

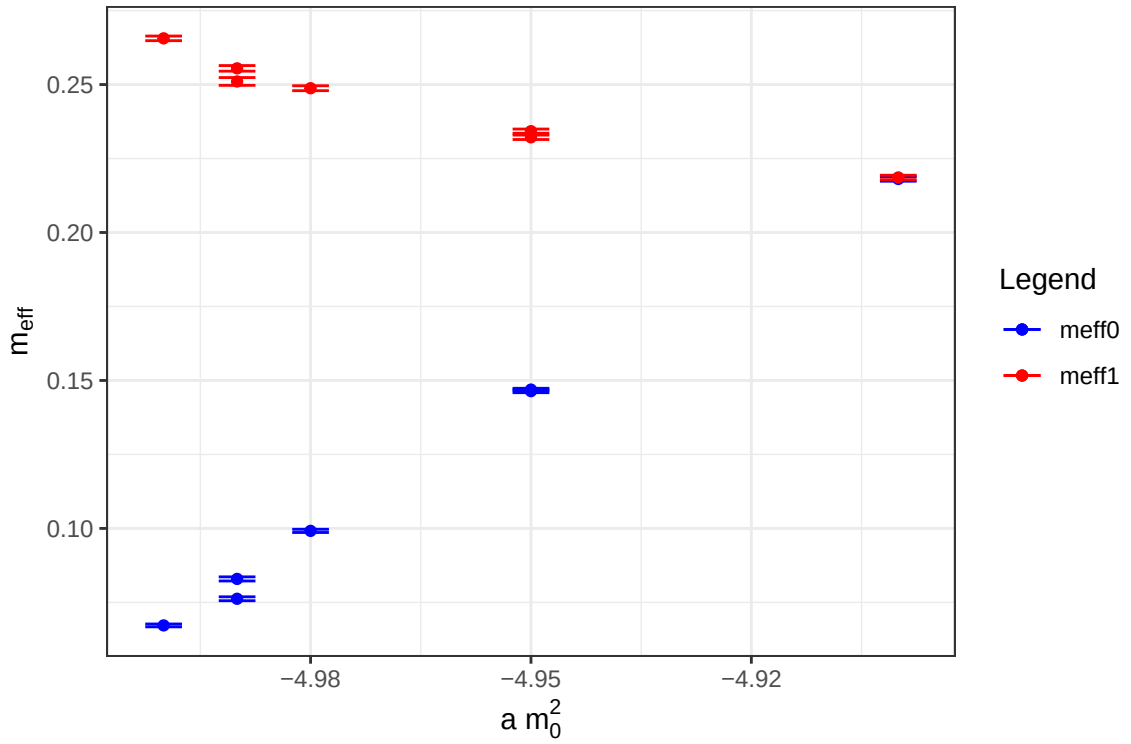
$P[1] = -0.003814 \pm 0.000114$

```
Warning in `[<-.data.frame`(`*tmp*`, count + 1, , value = list(10, 24,
0.067222310569474, : provided 41 variables to replace 31 variables
```



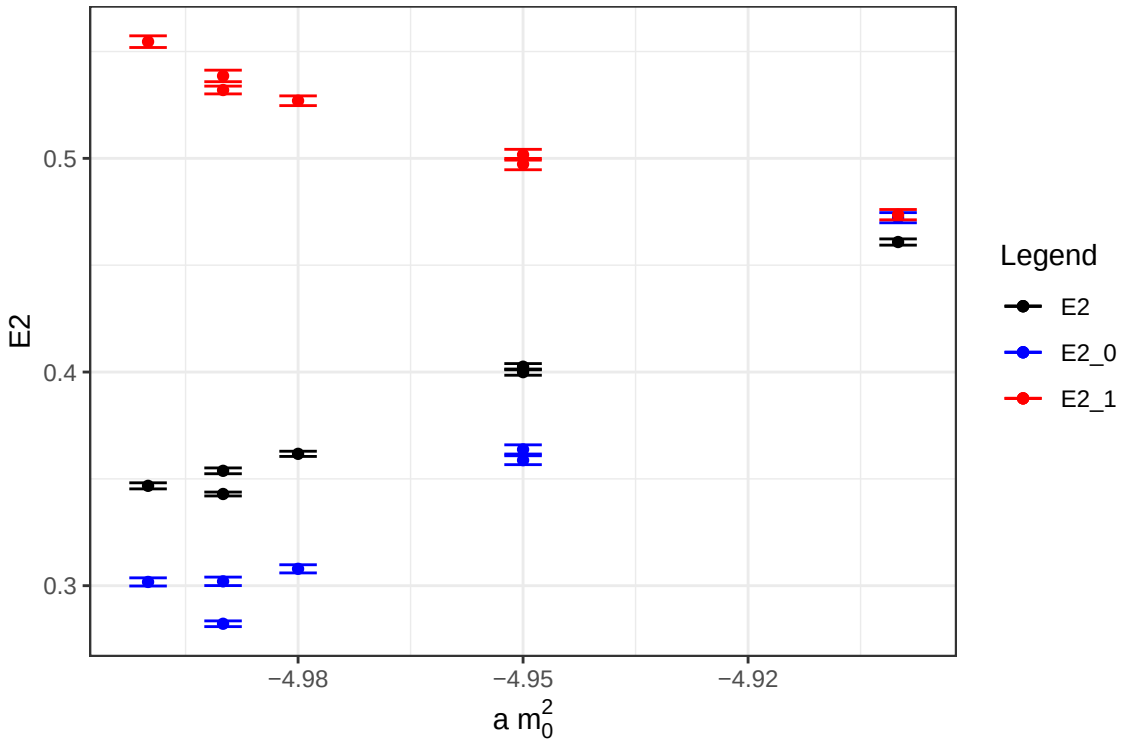
Masses

L	T	msq0	msq1	meff0	Emeff0	meff1	Emeff1
10	24	-4.90	-4.9	0.2180975	0.0007541	0.2185971	0.0007512
10	24	-4.95	-4.9	0.1469108	0.0004401	0.2342464	0.0007148
10	24	-4.95	-4.9	0.1463931	0.0005217	0.2321742	0.0007494
10	24	-4.98	-4.9	0.0991651	0.0005447	0.2487601	0.0008334
10	24	-4.99	-4.9	0.0829349	0.0006906	0.2554706	0.0009441
10	48	-4.99	-4.9	0.0762214	0.0006624	0.2510423	0.0013174
10	24	-5.00	-4.9	0.0672223	0.0004859	0.2656081	0.0007859



Two particle energy

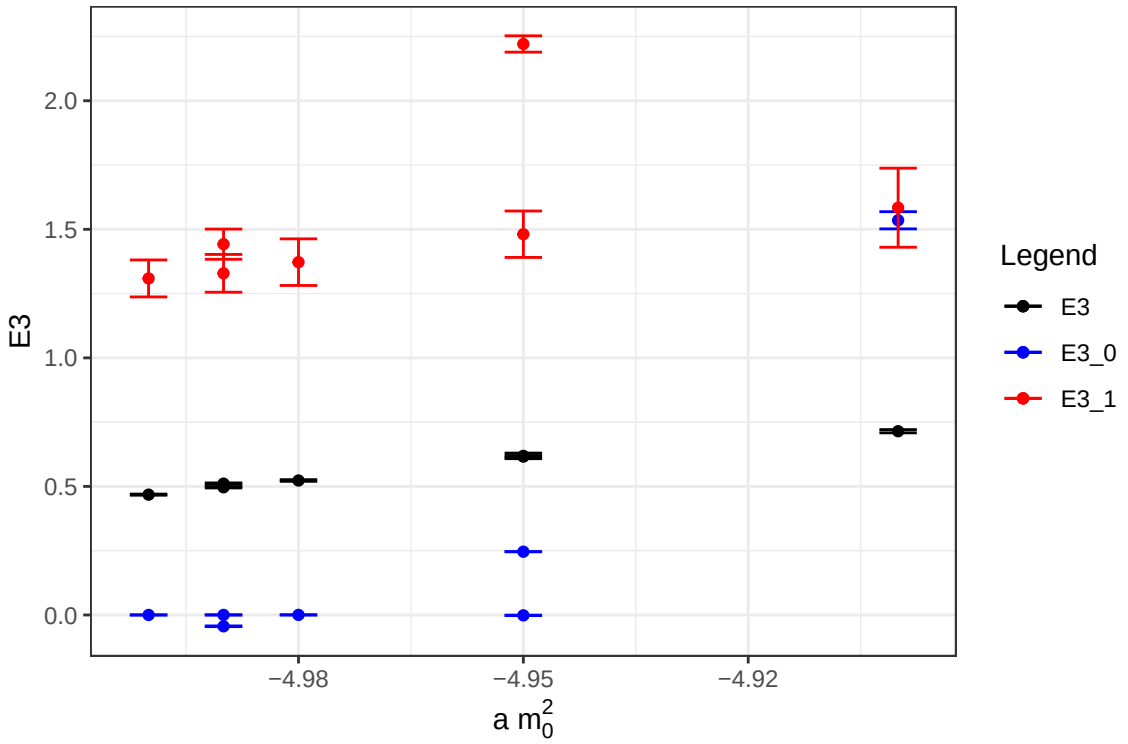
L	T	msq0	msq1	E2_0	E2_0err	E2_1	E2_1err	E2	E2err
10	24	-4.90	-4.9	0.4722318	0.0023788	0.4736475	0.0024145	0.4608479	0.0014562
10	24	-4.95	-4.9	0.3637708	0.0021544	0.5017052	0.0025205	0.4024927	0.0014620
10	24	-4.95	-4.9	0.3587376	0.0020845	0.4973199	0.0026512	0.3999422	0.0014481
10	24	-4.98	-4.9	0.3078913	0.0019105	0.5269728	0.0022776	0.3617127	0.0012214
10	24	-4.99	-4.9	0.3020339	0.0019841	0.5385825	0.0026980	0.3537561	0.0013596
10	48	-4.99	-4.9	0.2821847	0.0013460	0.5319898	0.0018207	0.3429156	0.0009114
10	24	-5.00	-4.9	0.3017607	0.0019144	0.5546231	0.0027325	0.3467344	0.0014224



Three particle energy

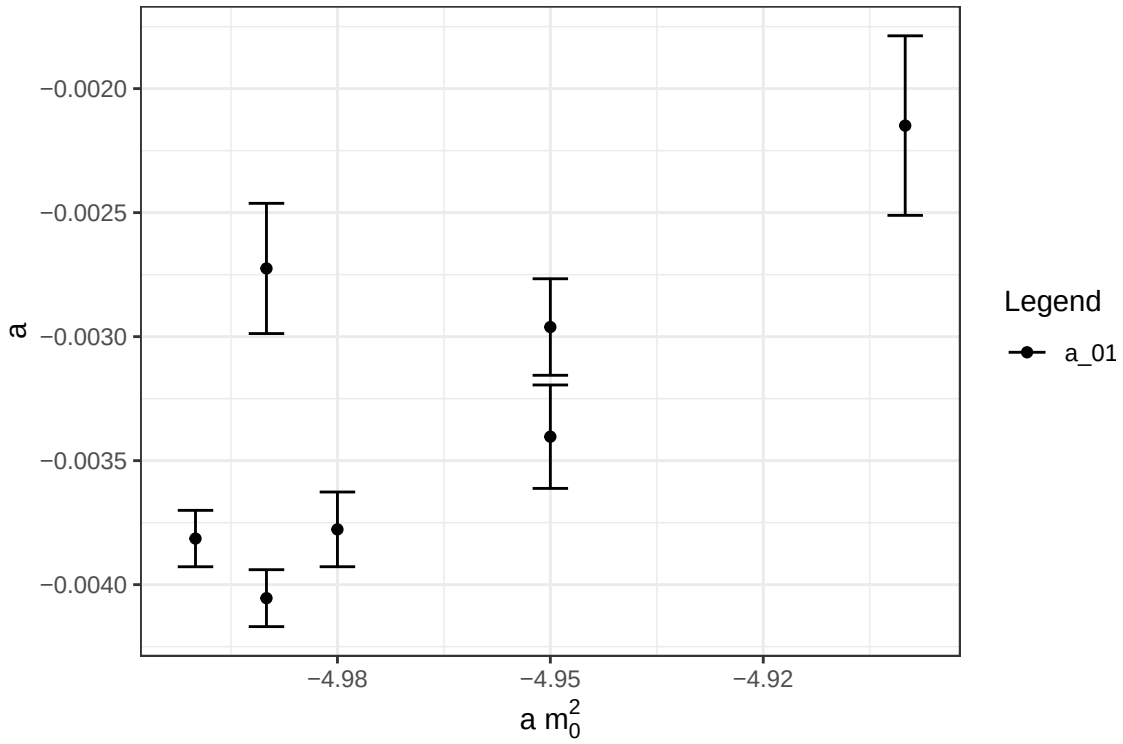
L	T	msq0	msq1	E3_0	E3_0err	E3_1	E3_1err	E3	E3err
10	24	-4.90	-4.9	1.5351079	0.0334568	1.584059	0.1537696	0.7146585	0.0062890
10	24	-4.95	-4.9	-0.0015164	0.0008565	1.480982	0.0902729	0.6160061	0.0040340
10	24	-4.95	-4.9	0.2460881	0.0001568	2.220848	0.0317445	0.6187622	0.0108299
10	24	-4.98	-4.9	0.0002597	0.0003751	1.372215	0.0906470	0.5230289	0.0031609
10	24	-4.99	-4.9	0.0001291	0.0003559	1.442154	0.0587608	0.4966239	0.0025306
10	48	-4.99	-4.9	-0.0439739	0.0013747	1.328801	0.0734396	0.5109104	0.0026186
10	24	-5.00	-4.9	0.0001031	0.0001717	1.308939	0.0718295	0.4680424	0.0021564

```
Scale for 'colour' is already present. Adding another scale for 'colour',
which will replace the existing scale.
```



Ampitude BH

L	T	msq0	msq1	a_0	a_0err	a_1	a_1err	a_01	a_01err
10	24	-4.90	-4.9	-0.1071172	0.0008294	2.096912	0.0022666	-0.0021491	0.0003620
10	24	-4.95	-4.9	-0.1077619	0.0001749	2.031022	0.0024504	-0.0034034	0.0002085
10	24	-4.95	-4.9	-0.1078929	0.0001864	2.042419	0.0023498	-0.0029612	0.0001946
10	24	-4.98	-4.9	-0.1367711	0.0005755	1.967226	0.0027586	-0.0037771	0.0001506
10	24	-4.99	-4.9	-0.1547053	0.0011582	1.914733	0.0035233	-0.0040545	0.0001148
10	48	-4.99	-4.9	-0.1193561	0.0005191	2.418731	0.0058694	-0.0027250	0.0002625
10	24	-5.00	-4.9	-0.1882655	0.0012639	1.901117	0.0028997	-0.0038141	0.0001137



to be compared with the result of the paper https://arxiv.org/abs/1806.02367

V1	V2	V3	V4	V5	V6	V7	V8	V9
L	T	nconf	ML	E2(L)	E3(L)	E2	E3	E3/ E2
4	24	18000	0.3634(16)	–	–	–	–	–
5	24	28000	0.3049(13)	0.6790(20)	1.1121(93)	0.0692(24)	0.1973(97)	2.85(12)
6	24	7500	0.2684(24)	0.5920(36)	0.962(16)	0.0552(46)	0.156(17)	2.83(26)
7	24	30000	0.2479(12)	0.5378(17)	0.8669(74)	0.0420(23)	0.1233(79)	2.93(17)
8	24	47000	0.2355(10)	0.5035(13)	0.8006(57)	0.0325(18)	0.0941(62)	2.90(17)
9	24	40000	0.2247(11)	0.4756(14)	0.7574(62)	0.0261(20)	0.0832(67)	3.19(24)
10	24	70000	0.21843(85)	0.4565(11)	0.7103(46)	0.0196(15)	0.0550(50)	2.80(23)
11	24	30000	0.2142(13)	0.4464(17)	0.6859(71)	0.0181(23)	0.0434(77)	2.40(37)
12	24	12000	0.2095(21)	0.4367(26)	0.672(11)	0.0177(37)	0.043(12)	2.43(60)
13	24	20000	0.2088(16)	0.4271(21)	0.6546(91)	0.0095(28)	0.0282(98)	2.97(97)
14	24	28000	0.2054(22)	0.4236(28)	0.650(13)	0.0127(38)	0.034(14)	2.64(96)
15	24	40000	0.2057(12)	0.4199(15)	0.6362(66)	0.0086(20)	0.0192(70)	2.23(72)
16	24	52000	0.2045(14)	0.4179(18)	0.6347(83)	0.0089(25)	0.0211(88)	2.37(88)
17	24	70000	0.20540(87)	0.4181(11)	0.6388(50)	0.0073(15)	0.0226(54)	3.11(71)
18	24	36000	0.2051(12)	0.4134(16)	0.6371(71)	0.0032(21)	0.0218(76)	6.8(4.0)
20	24	70000	0.20477(87)	0.4114(11)	0.6241(52)	0.0018(15)	0.0098(55)	5.4(4.1)
14	48	36000	0.20724(33)	0.42461(63)	0.6530(23)	0.01014(62)	0.0313(24)	3.09(20)
24	48	100000	0.20426(55)	0.4118(11)	0.6194(58)	0.0032(10)	0.0066(59)	2.0(1.7)