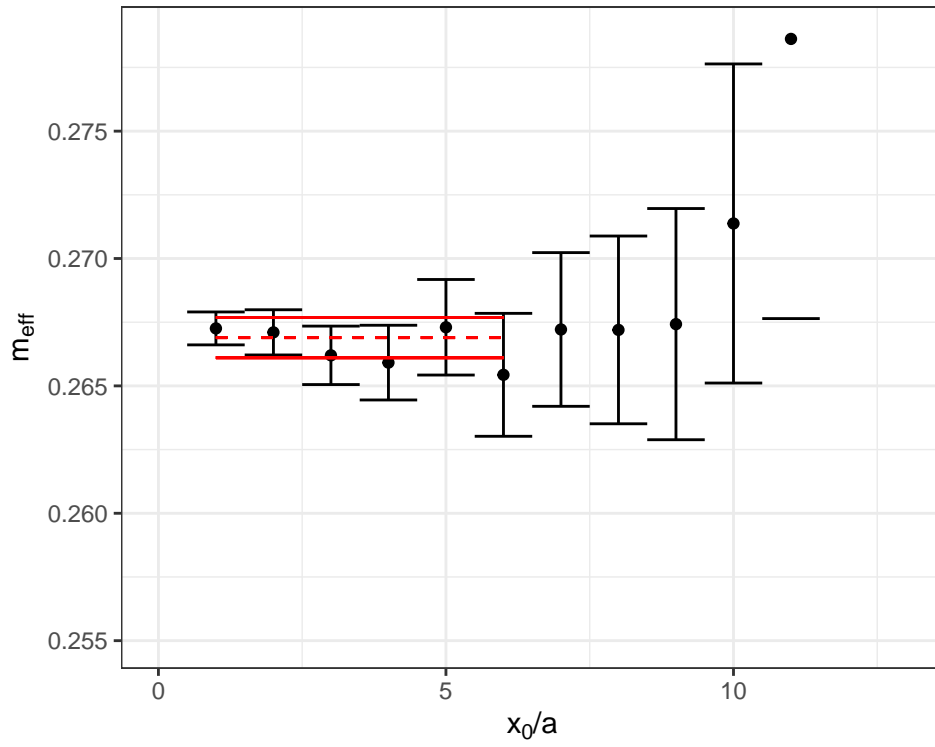# Effective mass

MG

T 24 L 6

$m_0^2 = -4.9$ $m_1^2 = -4.9$ $\lambda_0^2 = 2.5$ $\lambda_1^2 = 2.5$ $\mu^2 = 5$ $g^2 = 0$ replica $= 0$
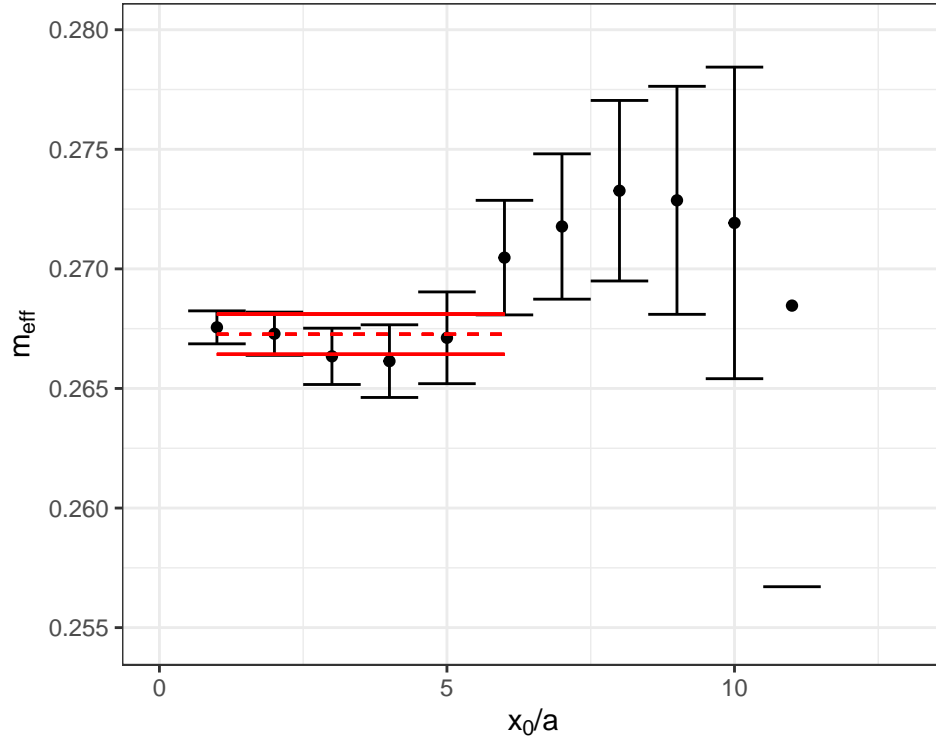
component n$= 0$

fit: $m_{eff} = 0.266896 \pm 0.000787$

component n$= 1$

fit: $m_{eff} = 0.267266 \pm 0.000839$

Two particle energy   component n= 0

fit: $m_{eff} = 0.594487 \pm 0.001585$

component n= 1

fit: $m_{eff} = 0.631552 \pm 0.002633$

T 24 L 8

$m_0^2 = -4.9$ $m_1^2 = -4.9$ $\lambda_0^2 = 2.5$ $\lambda_1^2 = 2.5$ $\mu^2 = 5$ $g^2 = 0$ replica $= 0$
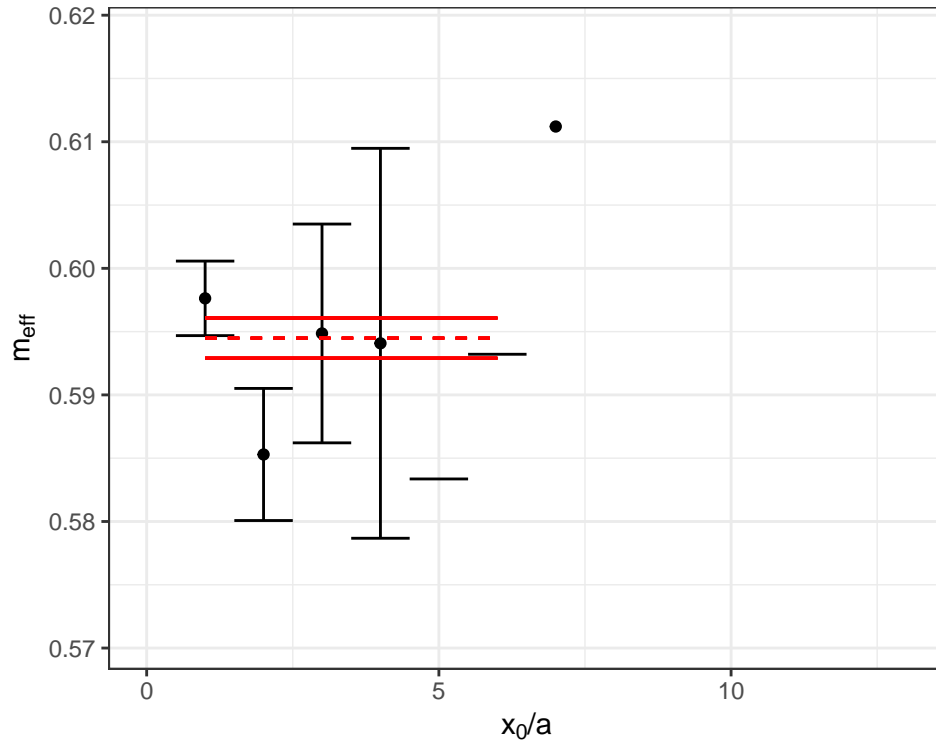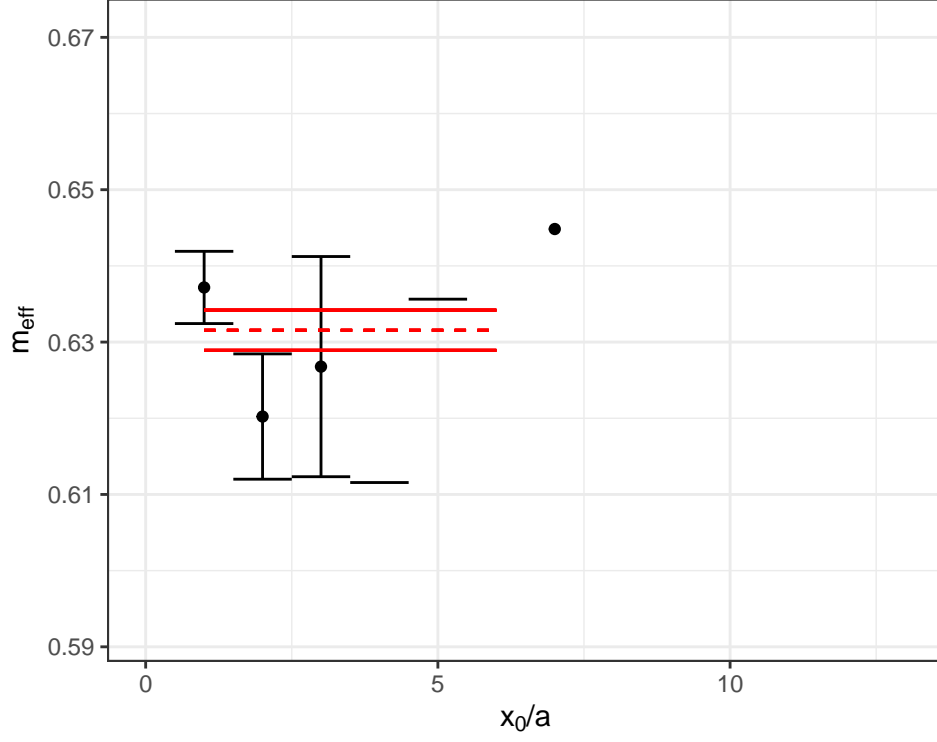
component n= 0

fit: $m_{eff} = 0.233247 \pm 0.000704$

component n= 1

fit: $m_{eff} = 0.233833 \pm 0.000728$

Two particle energy component n= 0

fit: $m_{eff} = 0.505590 \pm 0.001560$

component n= 1
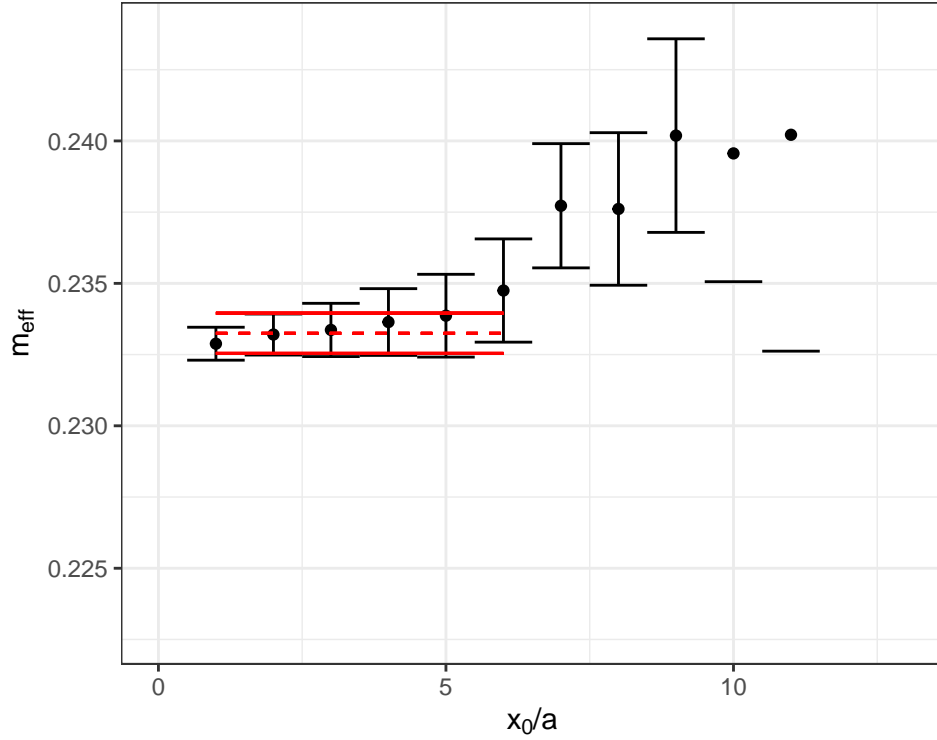
fit: $m_{eff} = 0.524375 \pm 0.002457$

T 24 L 10

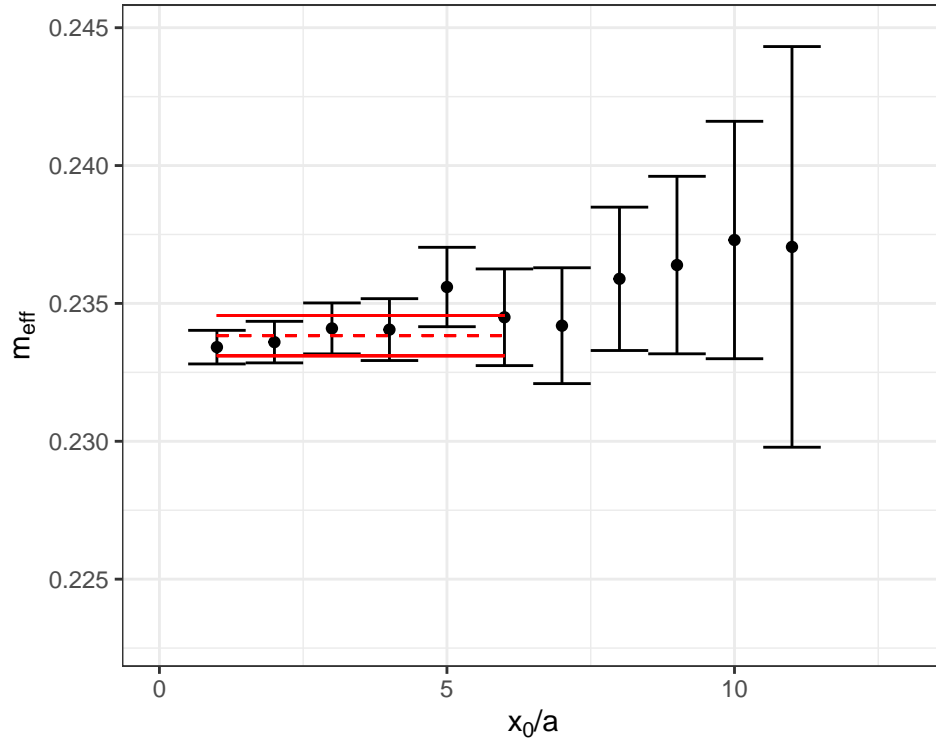$m_0^2 = -4.9$ $m_1^2 = -4.9$ $\lambda_0^2 = 2.5$ $\lambda_1^2 = 2.5$ $\mu^2 = 5$ $g^2 = 0$ replica $= 0$
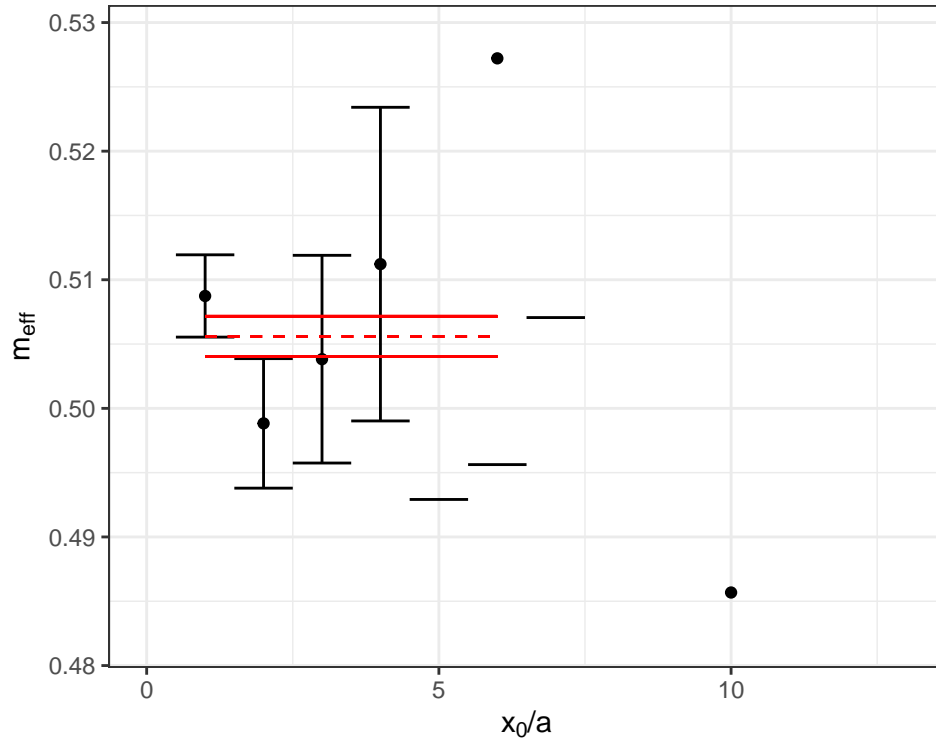
component n= 0

fit: $m_{eff} = 0.218105 \pm 0.000715$
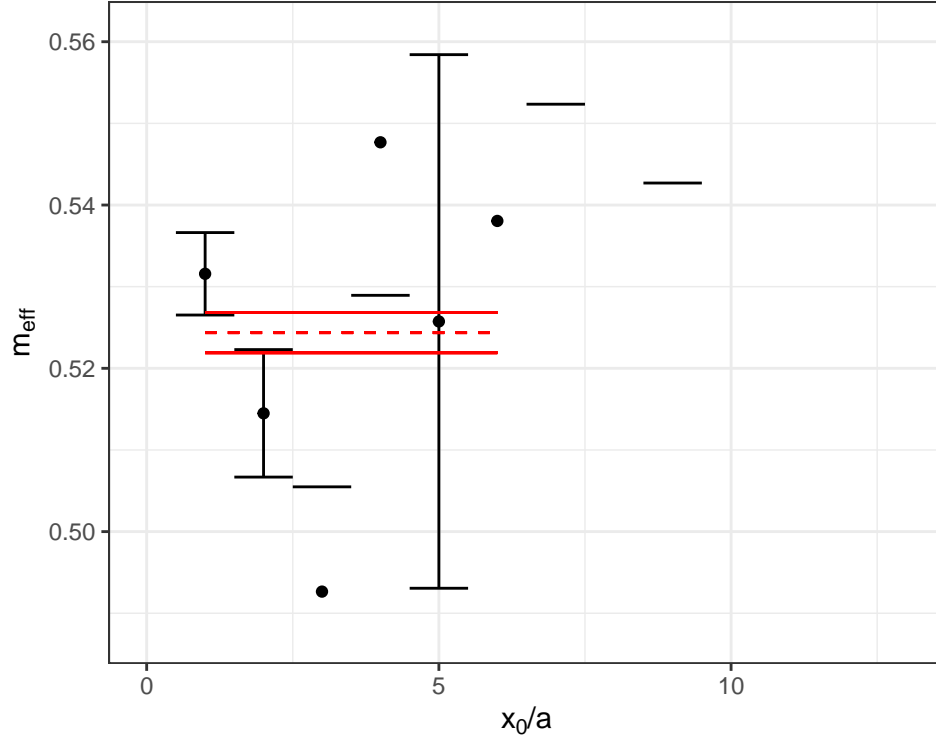
component n= 1

fit: $m_{eff} = 0.218597 \pm 0.000702$
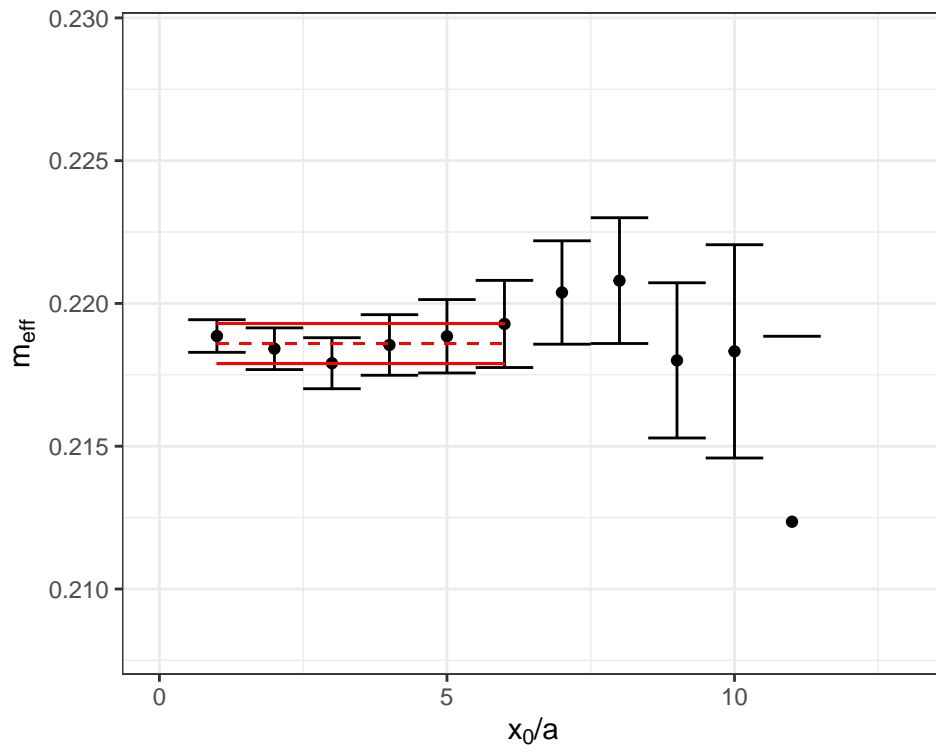
Two particle energy   component n= 0

fit: $m_{eff} = 0.461023 \pm 0.001512$
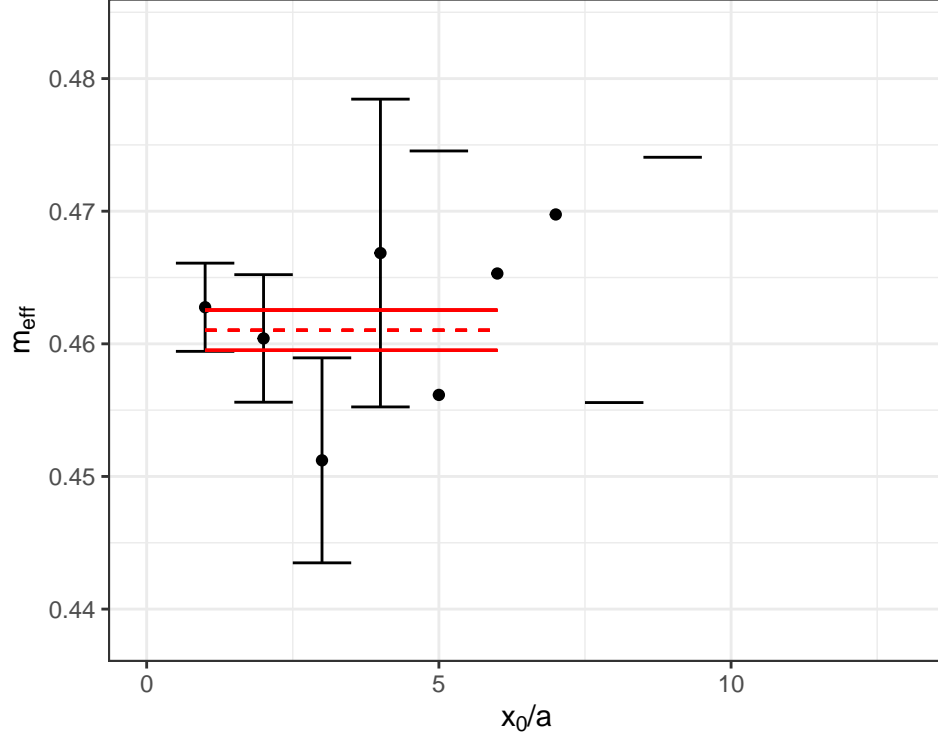
component n= 1

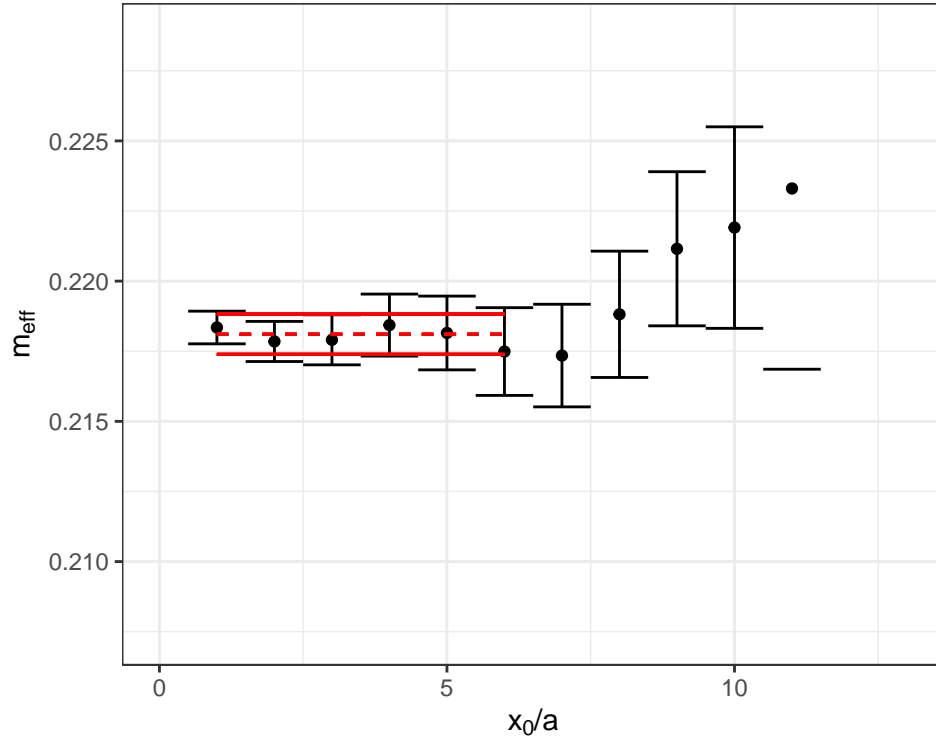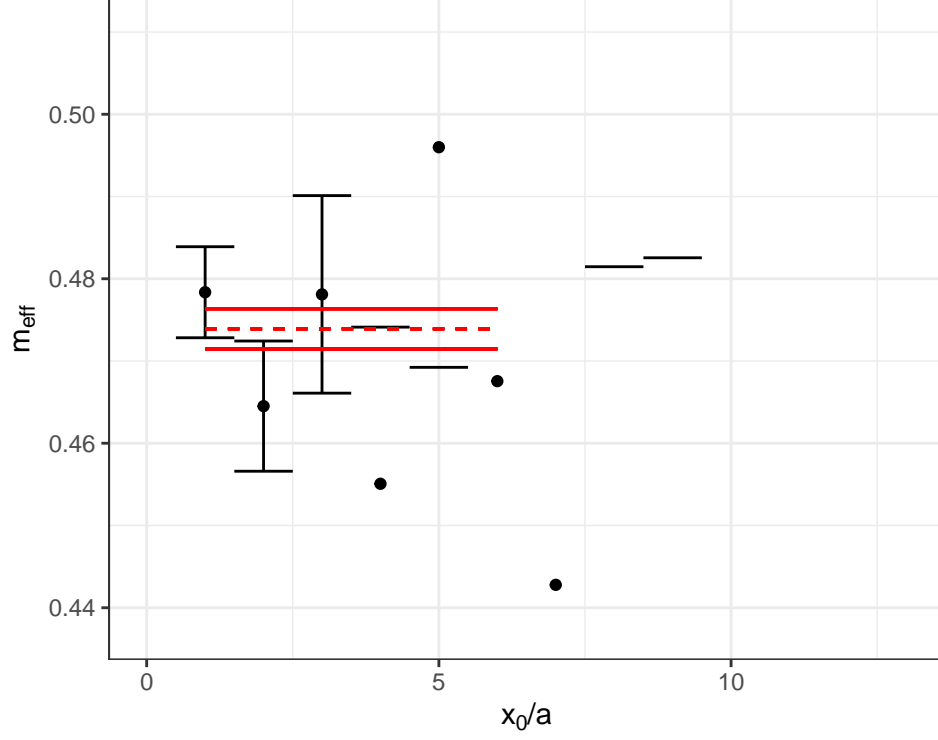fit: $m_{eff} = 0.473909 \pm 0.002439$

L	T	meff0	Emeff0	meff1	Emeff1	E2	E2err	E2.1	E2err.1
6	24	0.2668961	0.0007874	0.2672665	0.0008387	0.5944866	0.0015848	0.6315522	0.0026331

L	T	meff0	Emeff0	meff1	Emeff1	E2	E2err	E2.1	E2err.1
8	24	0.2332467	0.0007041	0.2338333	0.0007275	0.5055902	0.0015598	0.5243747	0.0024569
10	24	0.2181055	0.0007153	0.2185968	0.0007025	0.4610234	0.0015125	0.4739089	0.0024390

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)