

Candidate function #25

$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a7*((x0 - 1568.5) * 0.000145275))*(a5 + \tanh(a6*((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**2)**a4)))$$

$$a1 = -0.722, a2 = 0.00055,$$

$$a3 = 0.00464521^{+7.94e-05(1.71\%)}_{-7.94e-05(1.71\%)}, a4 = 0.564596^{+0.0218(3.86\%)}_{-0.0218(3.86\%)},$$

$$a5 = 0.661954^{+0.000489(0.0739\%)}_{-0.000489(0.0739\%)}, a6 = 3.72985^{+0.341(9.14\%)}_{-0.341(9.14\%)},$$

$$a7 = 2.91192^{+0.00894(0.307\%)}_{-0.00894(0.307\%)}$$

$$\chi^2/\text{NDF} = 40.49/37, \text{ p-value} = 0.3189, \text{ RMSE} = 0.02977$$

**Candidate #25**

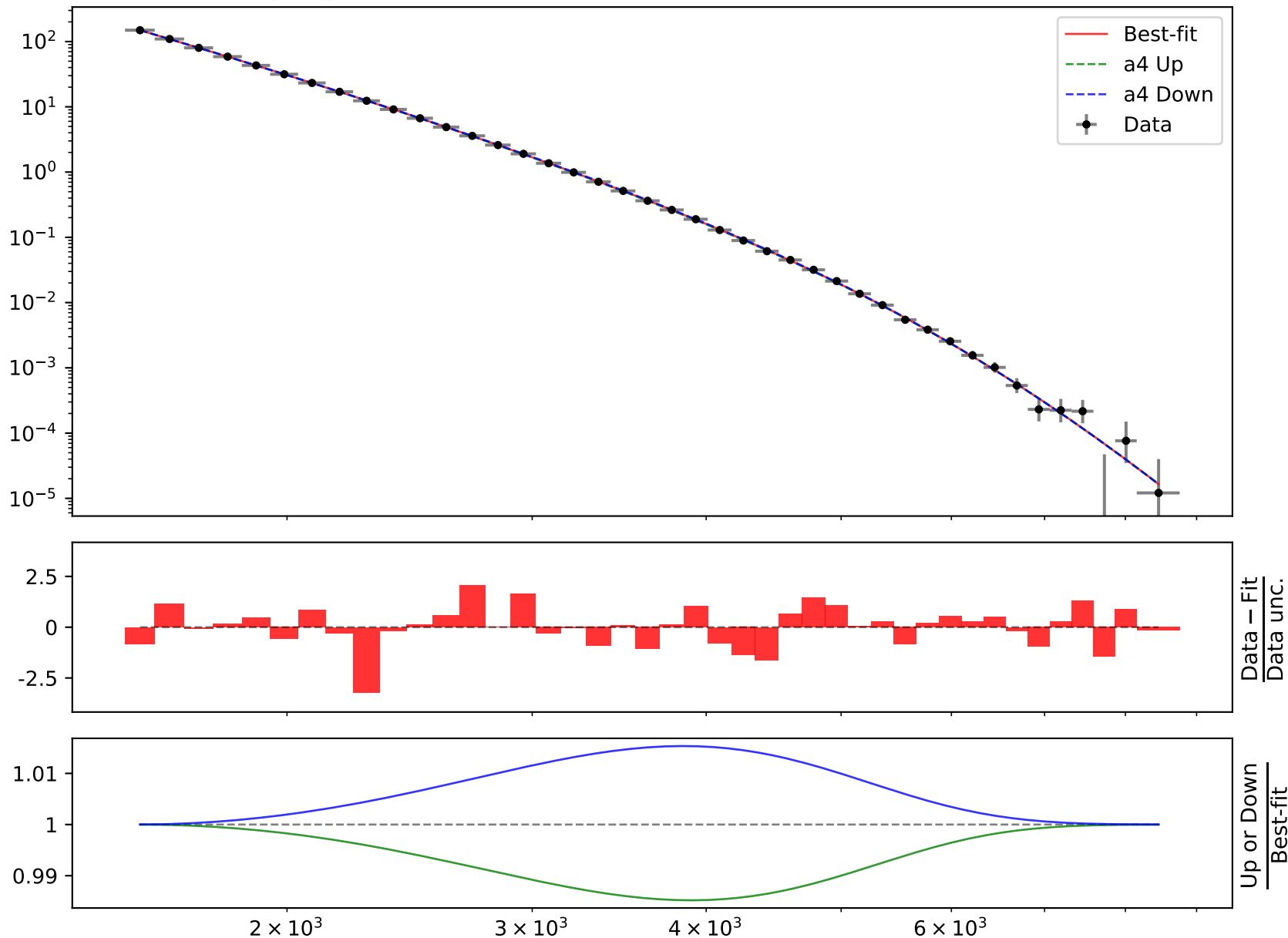

$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a7*((x0 - 1568.5) * 0.000145275))*(a5 + \tanh(a6*((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**2)**a4)))$$

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**Candidate #25** $\chi^2/\text{NDF} = 40.49/37$ , p-value = 0.3189, RMSE = 0.02977

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**Candidate #25** $\chi^2/\text{NDF} = 40.49/37$ , p-value = 0.3189, RMSE = 0.02977

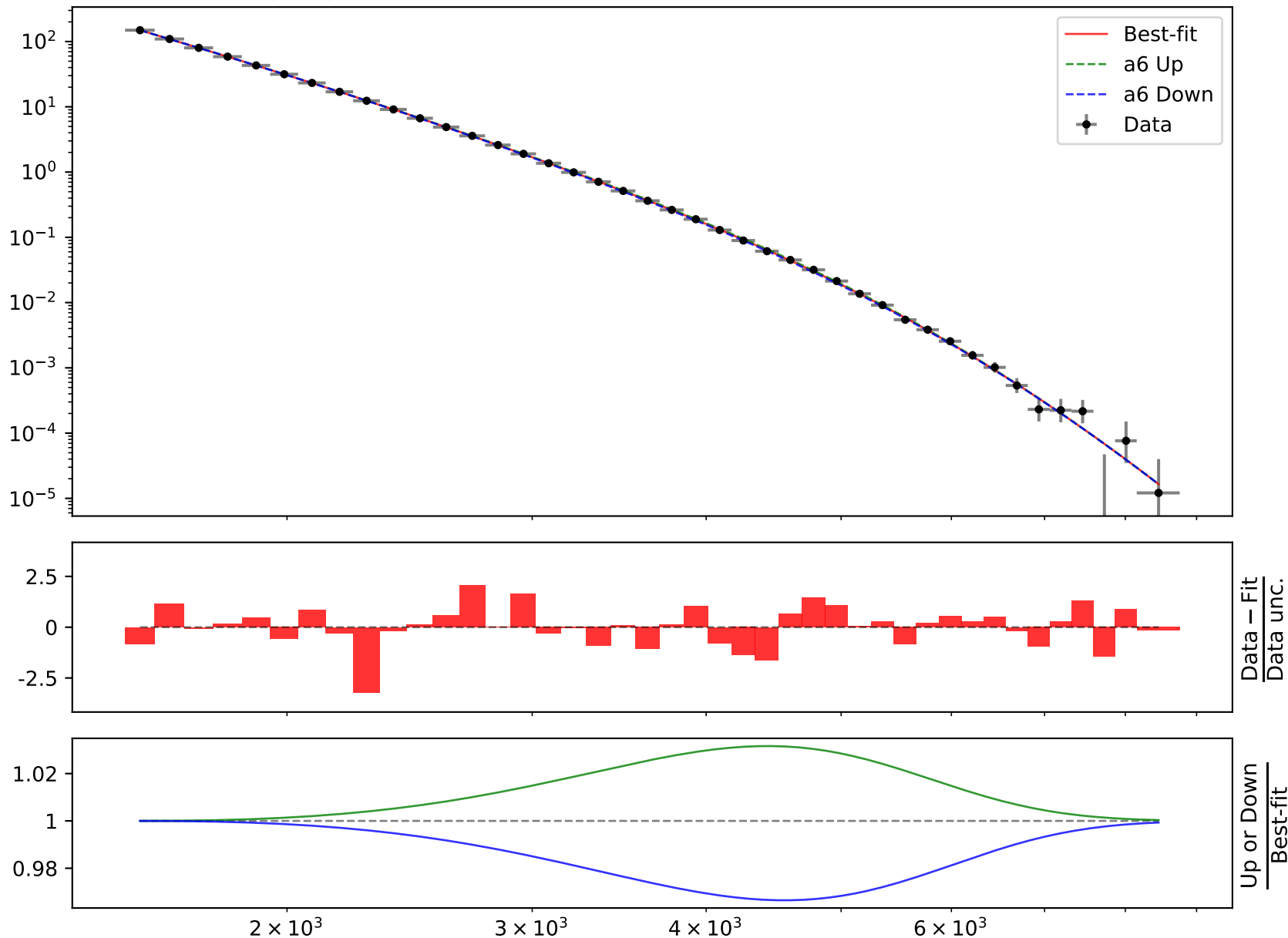
$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a7*((x0 - 1568.5) * 0.000145275))*(a5 + \tanh(a6*((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**2)**a4)))$$

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$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))^{**}(a1 + a7*((x0 - 1568.5) * 0.000145275))^{**}(a5 + \tanh(a6*((x0 - 1568.5) * 0.000145275)^{**}2)^{**}a4)))$$

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$$\chi^2/\text{NDF} = 40.49/37, \text{ p-value} = 0.3189, \text{ RMSE} = 0.02977$$

**Candidate #25**


Candidate function #24

$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a7*((x0 - 1568.5) * 0.000145275))*(a5 + a6*((x0 - 1568.5) * 0.000145275)*(((x0 - 1568.5) * 0.000145275)**2)**a4))$$

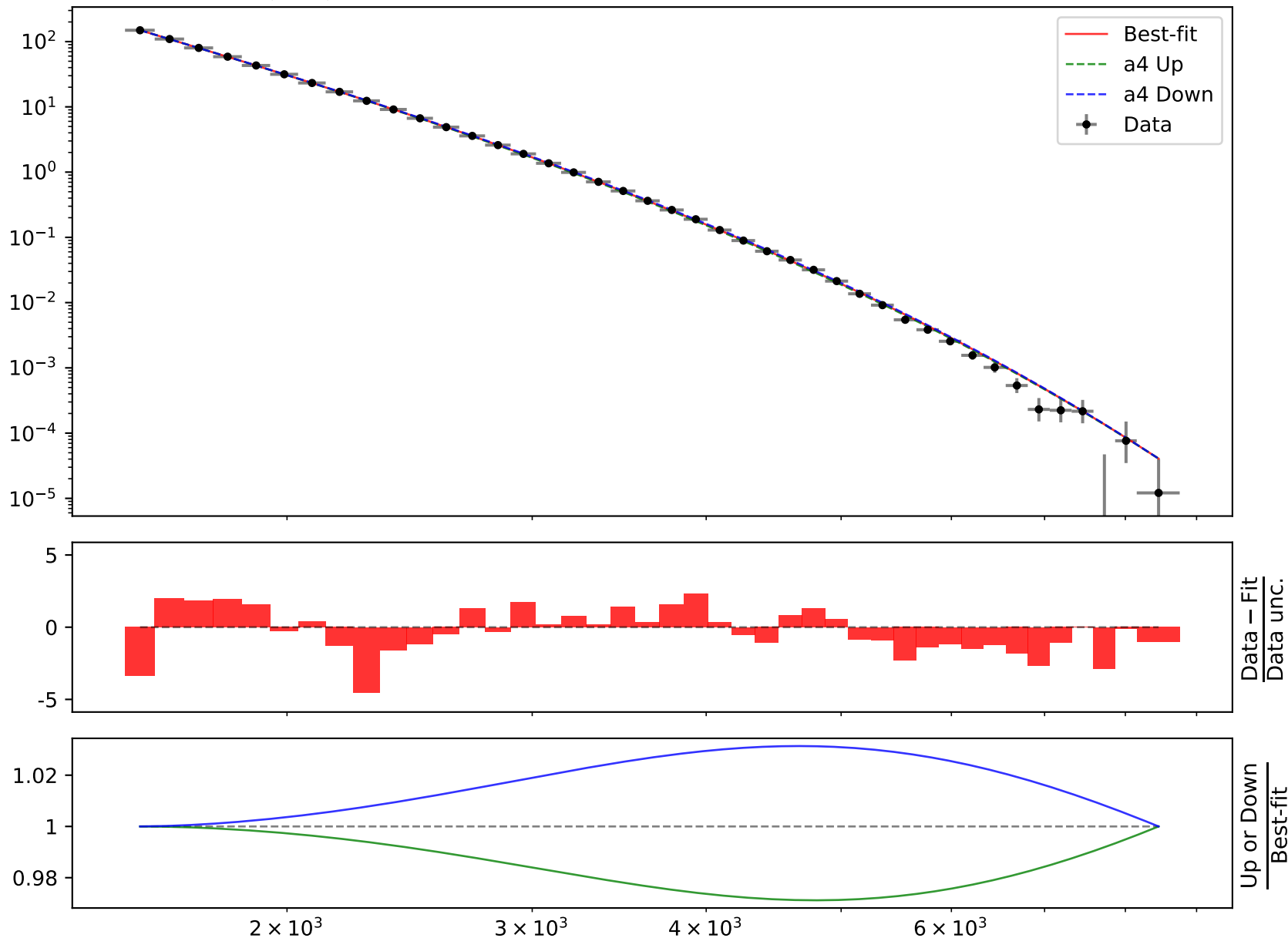
$$a1 = -0.722, \quad a2 = 0.00055,$$

$$a3 = 0.00524, \quad \mathbf{a4 = 0.495449^{+0.0544(11.0\%)}_{-0.0544(11.0\%)}}$$

$$a5 = 0.663293^{+0.000733(0.111\%)}_{-0.000733(0.111\%)}, \quad a6 = 1.71741^{+0.139(8.09\%)}_{-0.139(8.09\%)},$$

$$a7 = 2.85296^{+0.00892(0.313\%)}_{-0.00892(0.313\%)}$$

$$\chi^2/\text{NDF} = 106.1/38, \quad \text{p-value} = 2.349\text{e-}08, \quad \text{RMSE} = 0.08108$$

**Candidate #24**




$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a7*((x0 - 1568.5) * 0.000145275))*(a5 + a6*((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**2)**a4))$$

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$$a7 = 2.85296^{+0.00892(0.313\%)}_{-0.00892(0.313\%)}$$

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$$a7 = 2.85296^{+0.00892(0.313\%)}_{-0.00892(0.313\%)}$$

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$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a7*((x0 - 1568.5) * 0.000145275))*(a5 + a6*((x0 - 1568.5) * 0.000145275)*(((x0 - 1568.5) * 0.000145275)**2)**a4))$$

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$$\mathbf{a7 = 2.85296^{+0.00892(0.313\%)}_{-0.00892(0.313\%)}}$$

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**Candidate #24**

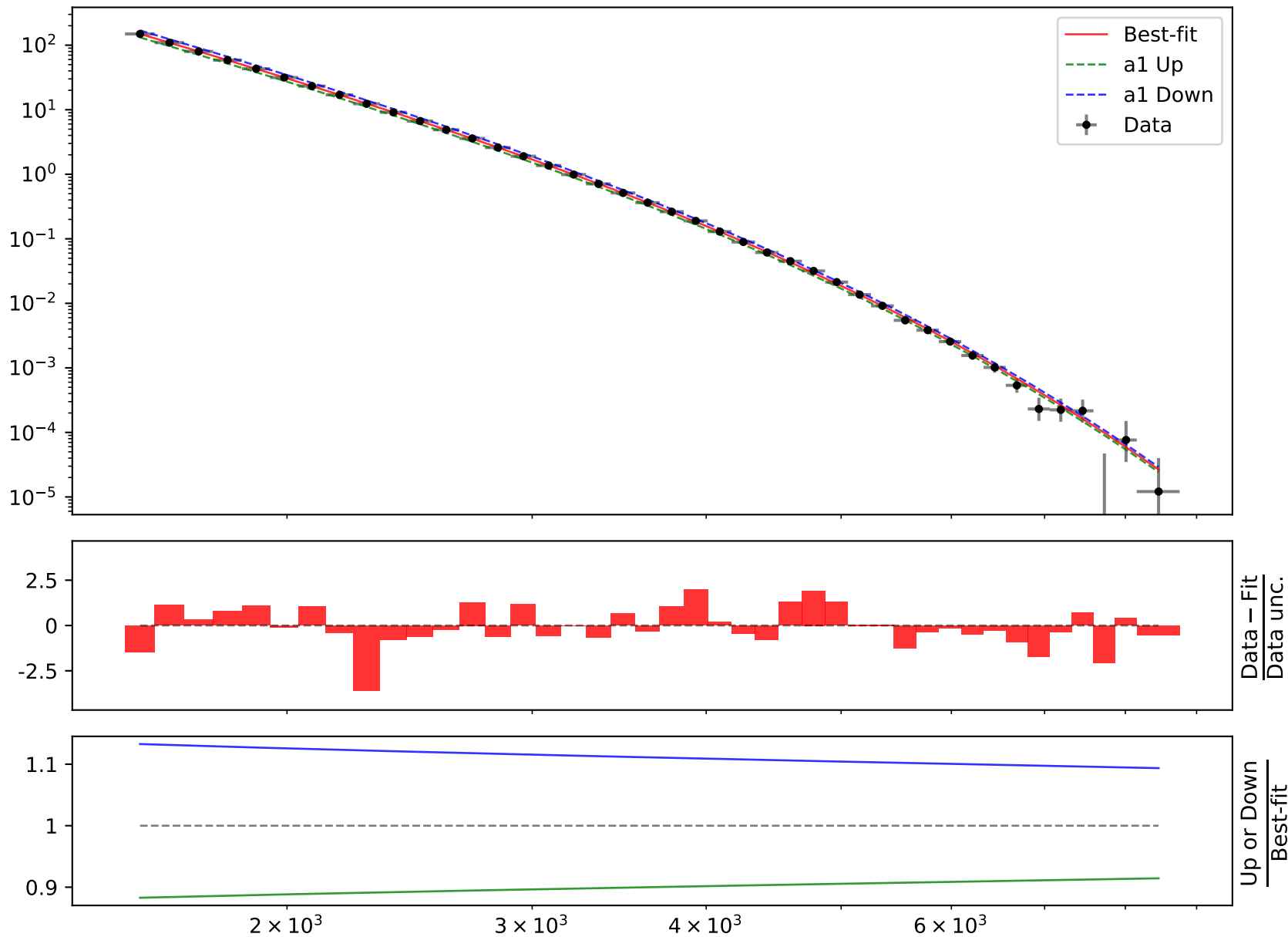

Candidate function #23

$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))* (a1 + a6*((x0 - 1568.5) * 0.000145275))*(a5 + ((x0 - 1568.5) * 0.000145275)*(a4 + ((x0 - 1568.5) * 0.000145275))))$$

$$a1 = -0.927491^{+0.0166(1.79\%)}_{-0.0166(1.79\%)}, \quad a2 = 0.000548,$$

$$a3 = 0.00401264^{+0.000113(2.82\%)}_{-0.000113(2.82\%)}, \quad a4 = 0.105,$$

$$a5 = 0.141174^{+0.0176(12.5\%)}_{-0.0176(12.5\%)}, \quad a6 = 2.9227^{+0.0205(0.701\%)}_{-0.0205(0.701\%)}$$

**Candidate #23** $\chi^2/\text{NDF} = 49.67/38$ , p-value = 0.09745, RMSE = 0.03968

$$1.0 * ((a2 + a3 * ((x0 - 1568.5) * 0.000145275)) * (a1 + a6 * ((x0 - 1568.5) * 0.000145275)) * (a5 + ((x0 - 1568.5) * 0.000145275) * (a4 + ((x0 - 1568.5) * 0.000145275))))$$

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**Candidate #23** $\chi^2/\text{NDF} = 49.67/38$ , p-value = 0.09745, RMSE = 0.03968

$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))* (a1 + a6*((x0 - 1568.5) * 0.000145275))*(a5 + ((x0 - 1568.5) * 0.000145275)*(a4 + ((x0 - 1568.5) * 0.000145275))))$$

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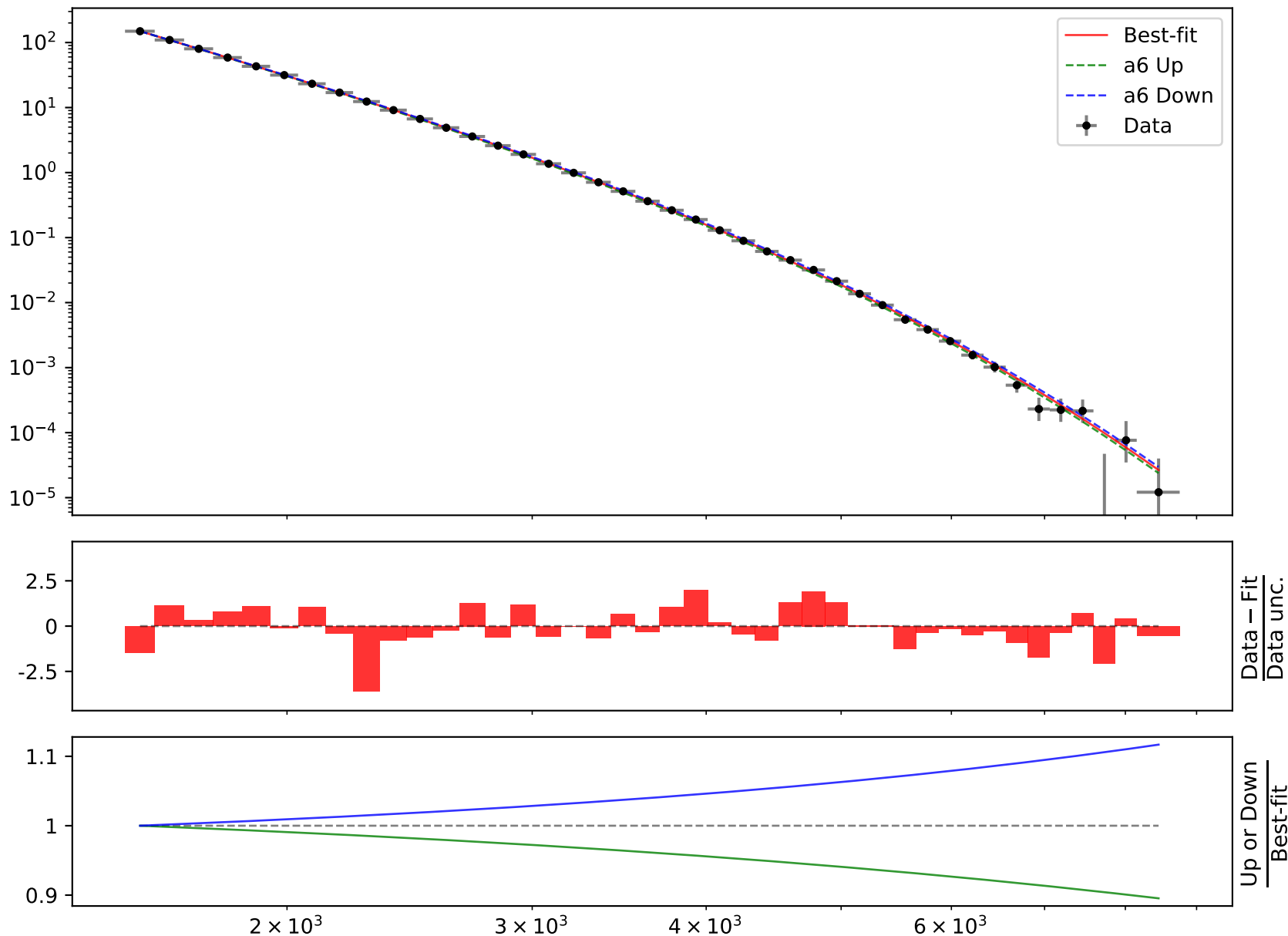
**Candidate #23** $\chi^2/\text{NDF} = 49.67/38$ , p-value = 0.09745, RMSE = 0.03968

$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))^{a1 + a6*((x0 - 1568.5) * 0.000145275)}*(a5 + ((x0 - 1568.5) * 0.000145275)^{a4 + ((x0 - 1568.5) * 0.000145275)}))$$

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**Candidate #23** $\chi^2/\text{NDF} = 49.67/38$ , p-value = 0.09745, RMSE = 0.03968



Candidate function #22

$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))* (a1 + a6*((x0 - 1568.5) * 0.000145275))*(a5 + ((x0 - 1568.5) * 0.000145275)*(a4 + ((x0 - 1568.5) * 0.000145275))))$$

$$a1 = -0.92779^{+0.0166(1.79\%)}_{-0.0166(1.79\%)}, \quad a2 = 0.000549,$$

$$a3 = 0.00401829^{+0.000113(2.81\%)}_{-0.000113(2.81\%)}, \quad a4 = 0.105,$$

$$a5 = 0.141095^{+0.0175(12.4\%)}_{-0.0175(12.4\%)}, \quad a6 = 2.92349^{+0.0205(0.701\%)}_{-0.0205(0.701\%)}$$

**Candidate #22** $\chi^2/\text{NDF} = 49.63/38$ , p-value = 0.09808, RMSE = 0.0396

$$1.0 * ((a2 + a3 * ((x0 - 1568.5) * 0.000145275)) * (a1 + a6 * ((x0 - 1568.5) * 0.000145275)) * (a5 + ((x0 - 1568.5) * 0.000145275) * (a4 + ((x0 - 1568.5) * 0.000145275))))$$

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**Candidate #22** $\chi^2/\text{NDF} = 49.63/38$ , p-value = 0.09808, RMSE = 0.0396

$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))*((a1 + a6*((x0 - 1568.5) * 0.000145275))*(a5 + ((x0 - 1568.5) * 0.000145275)*(a4 + ((x0 - 1568.5) * 0.000145275))))))$$

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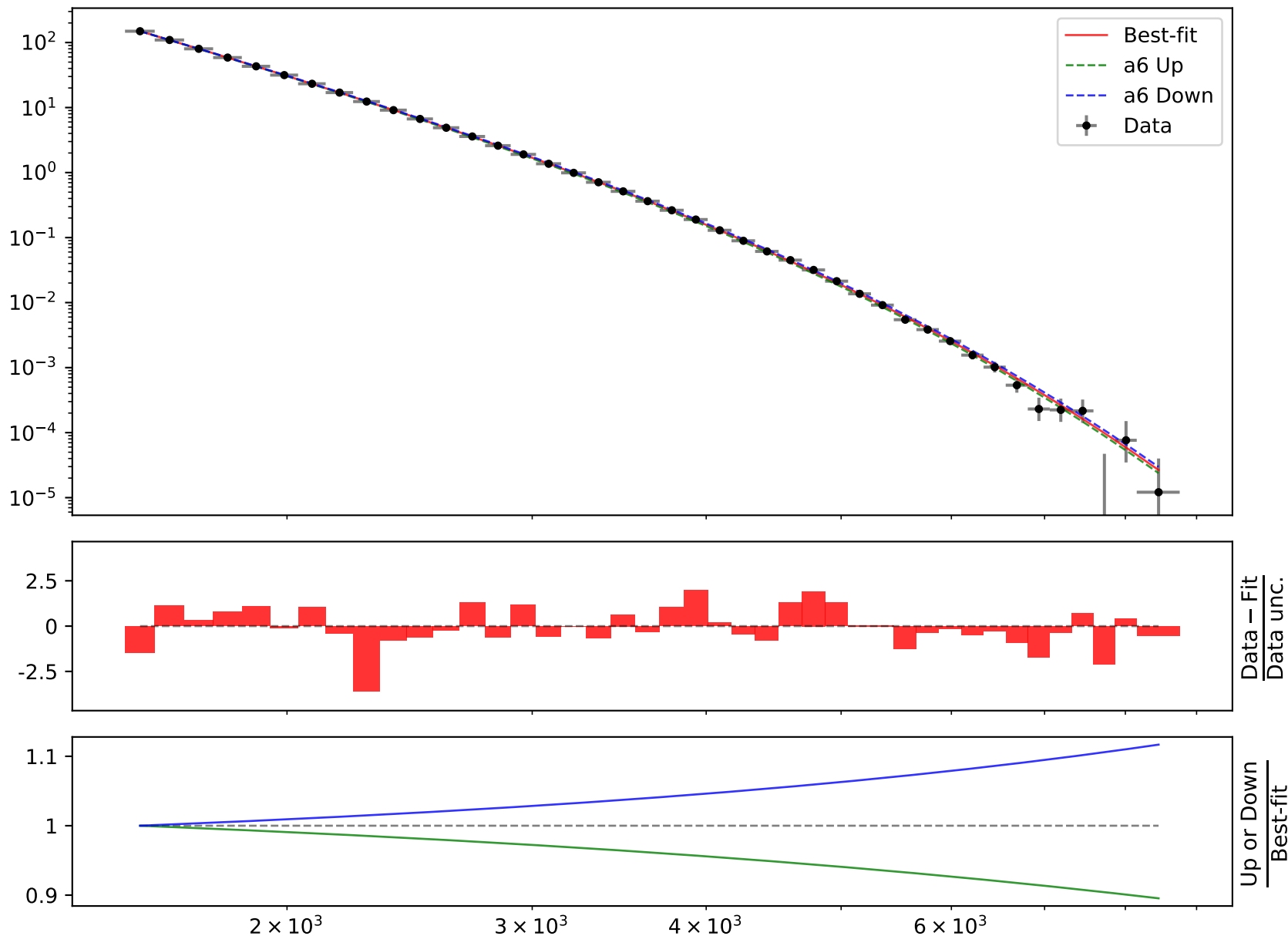
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**Candidate #22** $\chi^2/\text{NDF} = 49.63/38$ , p-value = 0.09808, RMSE = 0.0396

Candidate function #21

$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))* (a1 + a6*((x0 - 1568.5) * 0.000145275))*(a5 + ((x0 - 1568.5) * 0.000145275)*(a4 + ((x0 - 1568.5) * 0.000145275))))$$

$$a1 = -0.928088^{+0.0165(1.78\%)}_{-0.0165(1.78\%)}, \quad a2 = 0.00055,$$

$$a3 = 0.00402393^{+0.000113(2.81\%)}_{-0.000113(2.81\%)}, \quad a4 = 0.105,$$

$$a5 = 0.141017^{+0.0175(12.4\%)}_{-0.0175(12.4\%)}, \quad a6 = 2.92428^{+0.0205(0.701\%)}_{-0.0205(0.701\%)}$$

**Candidate #21** $\chi^2/\text{NDF} = 49.59/38$ , p-value = 0.09871, RMSE = 0.03953

$$1.0 * ((a2 + a3 * ((x0 - 1568.5) * 0.000145275)) * (a1 + a6 * ((x0 - 1568.5) * 0.000145275)) * (a5 + ((x0 - 1568.5) * 0.000145275) * (a4 + ((x0 - 1568.5) * 0.000145275))))$$

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**Candidate #21** $\chi^2/\text{NDF} = 49.59/38$ , p-value = 0.09871, RMSE = 0.03953



$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))* (a1 + a6*((x0 - 1568.5) * 0.000145275))*(a5 + ((x0 - 1568.5) * 0.000145275)*(a4 + ((x0 - 1568.5) * 0.000145275))))$$

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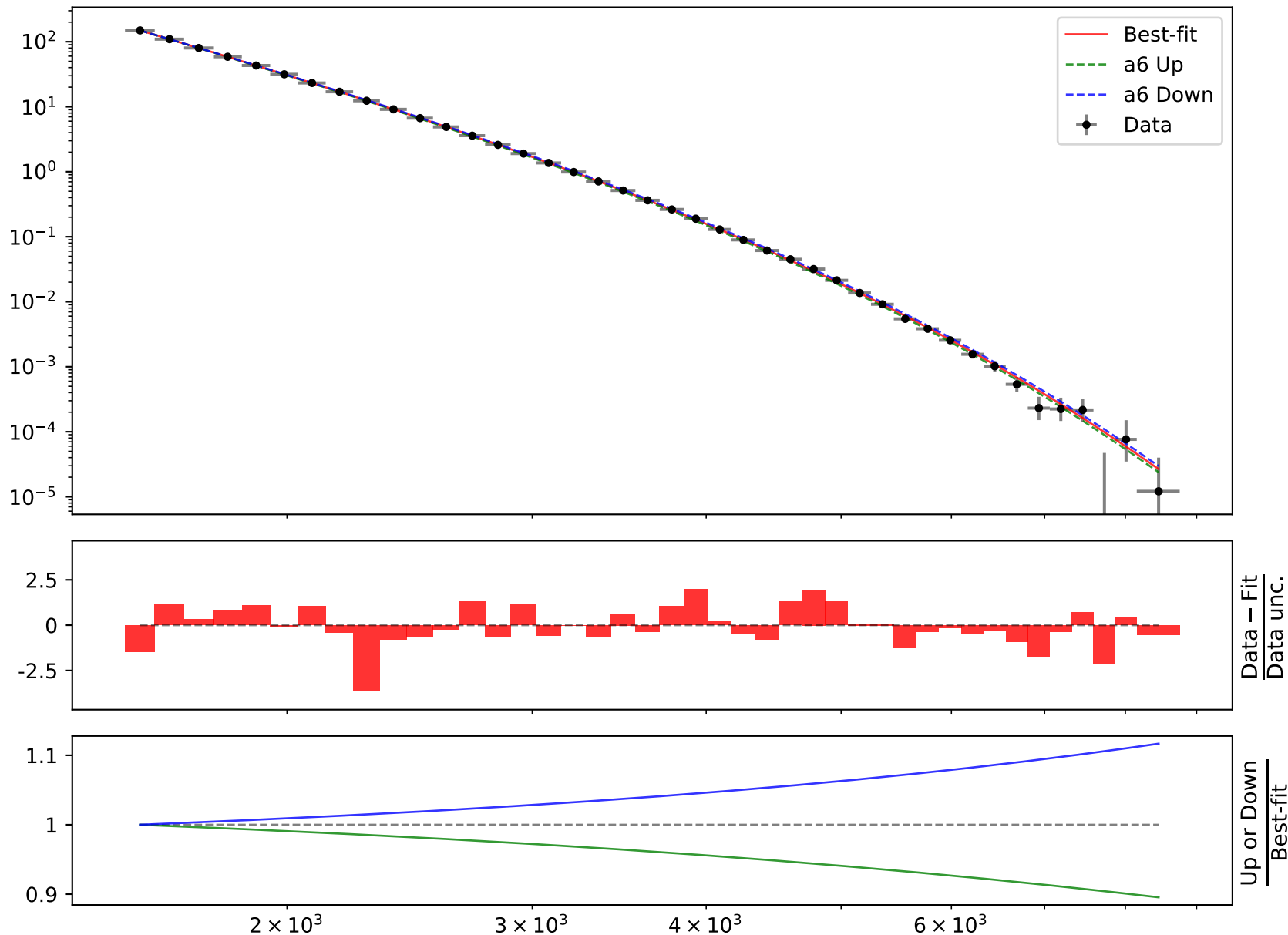
**Candidate #21** $\chi^2/\text{NDF} = 49.59/38$ , p-value = 0.09871, RMSE = 0.03953

$$1.0 * ((a2 + a3 * ((x0 - 1568.5) * 0.000145275)) * (a1 + a6 * ((x0 - 1568.5) * 0.000145275)) * (a5 + ((x0 - 1568.5) * 0.000145275) * (a4 + ((x0 - 1568.5) * 0.000145275))))$$

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**Candidate #21** $\chi^2/\text{NDF} = 49.59/38$ , p-value = 0.09871, RMSE = 0.03953

Candidate function #20

$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))* (a1 + a6*((x0 - 1568.5) * 0.000145275))*(a5 + ((x0 - 1568.5) * 0.000145275)*(a4 + ((x0 - 1568.5) * 0.000145275))))$$

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$$a5 = 0.141017^{+0.0175(12.4\%)}_{-0.0175(12.4\%)}, \quad a6 = 2.92428^{+0.0205(0.701\%)}_{-0.0205(0.701\%)}$$

**Candidate #20** $\chi^2/\text{NDF} = 49.59/38$ , p-value = 0.09871, RMSE = 0.03953

$$1.0 * ((a2 + a3 * ((x0 - 1568.5) * 0.000145275)) * (a1 + a6 * ((x0 - 1568.5) * 0.000145275)) * (a5 + ((x0 - 1568.5) * 0.000145275) * (a4 + ((x0 - 1568.5) * 0.000145275))))$$

$$a1 = -0.928088^{+0.0165(1.78\%)}_{-0.0165(1.78\%)}, \quad a2 = 0.00055,$$

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$$a5 = 0.141017^{+0.0175(12.4\%)}_{-0.0175(12.4\%)}, \quad a6 = 2.92428^{+0.0205(0.701\%)}_{-0.0205(0.701\%)}$$

**Candidate #20** $\chi^2/\text{NDF} = 49.59/38$ , p-value = 0.09871, RMSE = 0.03953

$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))* (a1 + a6*((x0 - 1568.5) * 0.000145275))*(a5 + ((x0 - 1568.5) * 0.000145275)*(a4 + ((x0 - 1568.5) * 0.000145275))))$$

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$$a3 = 0.00402393^{+0.000113(2.81\%)}_{-0.000113(2.81\%)}, \quad a4 = 0.105,$$

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$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a6*((x0 - 1568.5) * 0.000145275))*(a5 + ((x0 - 1568.5) * 0.000145275)*(a4 + ((x0 - 1568.5) * 0.000145275))))$$

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**Candidate #20** $\chi^2/\text{NDF} = 49.59/38$ , p-value = 0.09871, RMSE = 0.03953

Candidate function #19



$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275))*(a4 + ((x0 - 1568.5) * 0.000145275)**2))$$

$$a1 = -0.983474^{+0.00826(0.84\%)}_{-0.00826(0.84\%)}, a2 = 0.00055,$$

$$a3 = 0.0032196^{+7.98e-05(2.48\%)}_{-7.98e-05(2.48\%)}, a4 = 0.0928954^{+0.00575(6.19\%)}_{-0.00575(6.19\%)},$$

$$a5 = 2.92182^{+0.0122(0.418\%)}_{-0.0122(0.418\%)}$$

**Candidate #19** $\chi^2/\text{NDF} = 40.85/38$ , p-value = 0.3465, RMSE = 0.02992

$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275))*(a4 + ((x0 - 1568.5) * 0.000145275)**2))$$

$$a1 = -0.983474^{+0.00826(0.84\%)}_{-0.00826(0.84\%)}, \quad a2 = 0.00055,$$

$$a3 = 0.0032196^{+7.98e-05(2.48\%)}_{-7.98e-05(2.48\%)}, \quad a4 = 0.0928954^{+0.00575(6.19\%)}_{-0.00575(6.19\%)},$$

$$a5 = 2.92182^{+0.0122(0.418\%)}_{-0.0122(0.418\%)}$$

$$\chi^2/\text{NDF} = 40.85/38, \quad \text{p-value} = 0.3465, \quad \text{RMSE} = 0.02992$$

**Candidate #19**



$$1.0 * ((a2 + a3 * ((x0 - 1568.5) * 0.000145275)) ** (a1 + a5 * ((x0 - 1568.5) * 0.000145275))) * (a4 + ((x0 - 1568.5) * 0.000145275) ** 2))$$

$$a1 = -0.983474^{+0.00826(0.84\%)}_{-0.00826(0.84\%)}, \quad a2 = 0.00055,$$

$$a3 = 0.0032196^{+7.98e-05(2.48\%)}_{-7.98e-05(2.48\%)}, \quad \mathbf{a4 = 0.0928954^{+0.00575(6.19\%)}_{-0.00575(6.19\%)},}$$

$$a5 = 2.92182^{+0.0122(0.418\%)}_{-0.0122(0.418\%)}$$

$$\chi^2/\text{NDF} = 40.85/38, \text{ p-value} = 0.3465, \text{ RMSE} = 0.02992$$

**Candidate #19**


$$1.0*((a2 + a3*((x0 - 1568.5) * 0.000145275))^{**}(a1 + a5*((x0 - 1568.5) * 0.000145275))^{**}(a4 + ((x0 - 1568.5) * 0.000145275)^{**2}))$$

$$a1 = -0.983474^{+0.00826(0.84\%)}_{-0.00826(0.84\%)}, a2 = 0.00055,$$

$$a3 = 0.0032196^{+7.98e-05(2.48\%)}_{-7.98e-05(2.48\%)}, a4 = 0.0928954^{+0.00575(6.19\%)}_{-0.00575(6.19\%)},$$

$$a5 = 2.92182^{+0.0122(0.418\%)}_{-0.0122(0.418\%)}$$

$$\chi^2/\text{NDF} = 40.85/38, \text{ p-value} = 0.3465, \text{ RMSE} = 0.02992$$

**Candidate #19**


Candidate function #18

$$1.0 * (a5 * (a2 + a3 * ((x0 - 1568.5) * 0.000145275) * (a4 + a6 * \exp(((x0 - 1568.5) * 0.000145275)))) * (a1 + a7 * ((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = \mathbf{0.0235286}^{+0.00428(18.2\%)}_{-0.00428(18.2\%)},$$

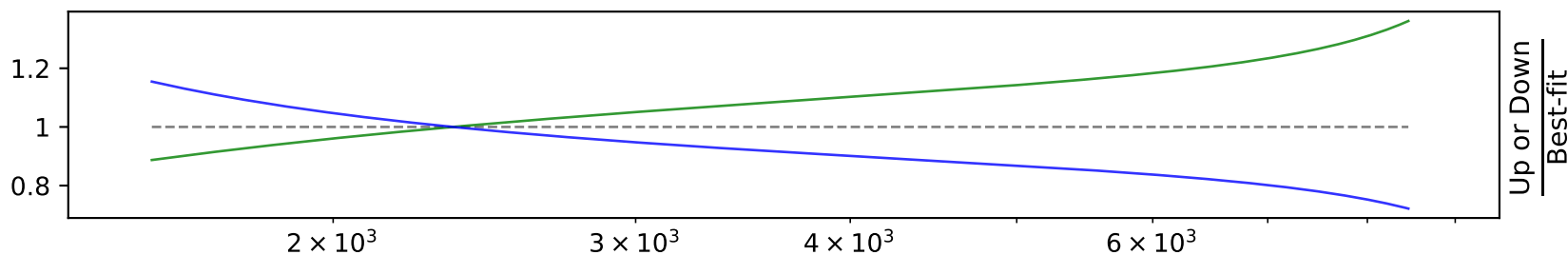
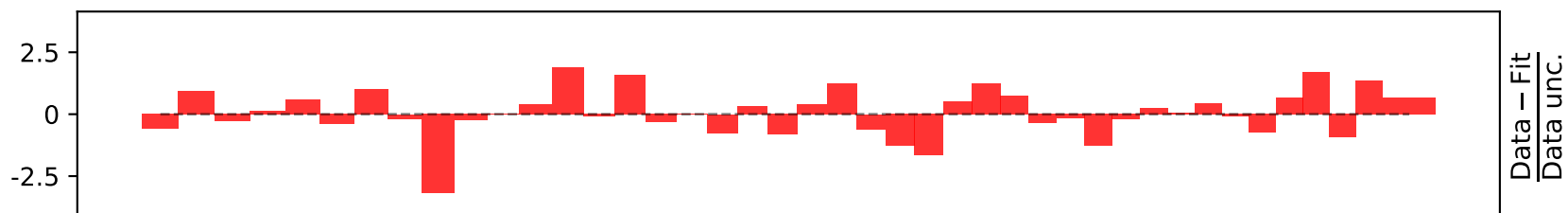
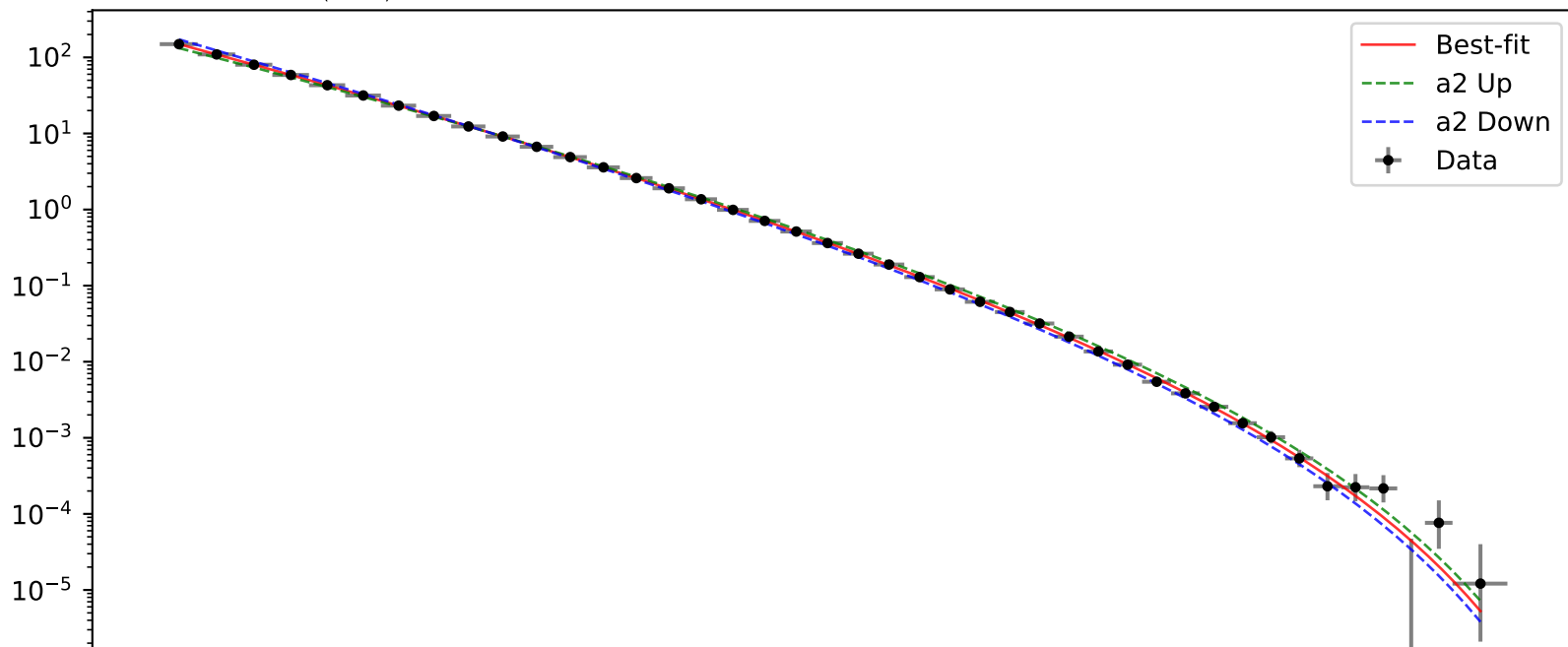
$$a3 = 0.00401, \quad a4 = 46.6776^{+6.77(14.5\%)}_{-6.77(14.5\%)},$$

$$a5 = 10.1922^{+1.32(13.0\%)}_{-1.32(13.0\%)}, \quad a6 = -12.3868^{+2.36(19.1\%)}_{-2.36(19.1\%)},$$

$$a7 = 6.32329^{+0.353(5.58\%)}_{-0.353(5.58\%)}$$

**Candidate #18**

$$\chi^2/\text{NDF} = 38.83/37, \quad \text{p-value} = 0.387, \quad \text{RMSE} = 0.02581$$



$$1.0 * (a5 * (a2 + a3 * ((x0 - 1568.5) * 0.000145275) * (a4 + a6 * \exp(((x0 - 1568.5) * 0.000145275)))) * (a1 + a7 * ((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, a2 = 0.0235286^{+0.00428(18.2\%)}_{-0.00428(18.2\%)},$$

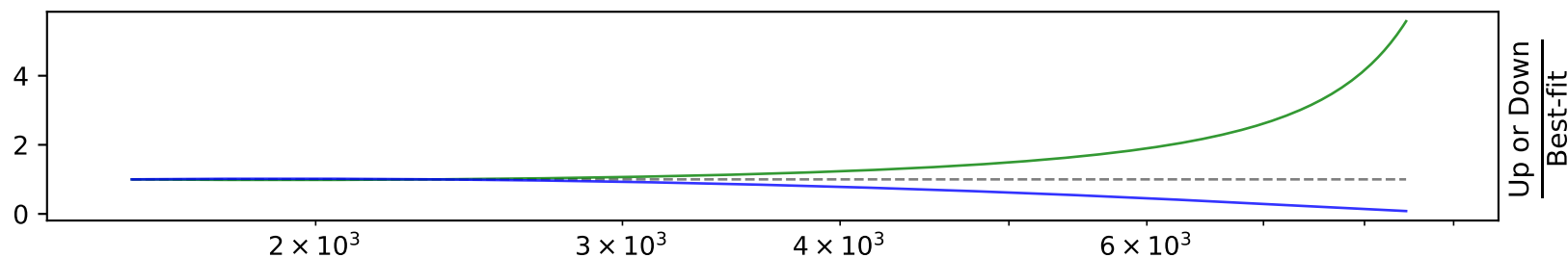
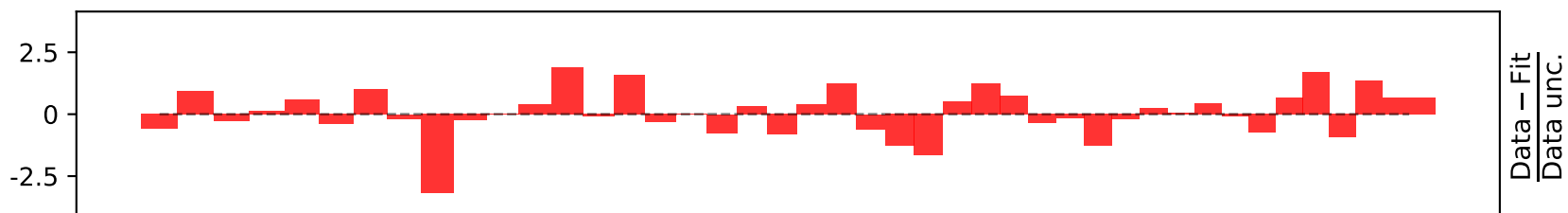
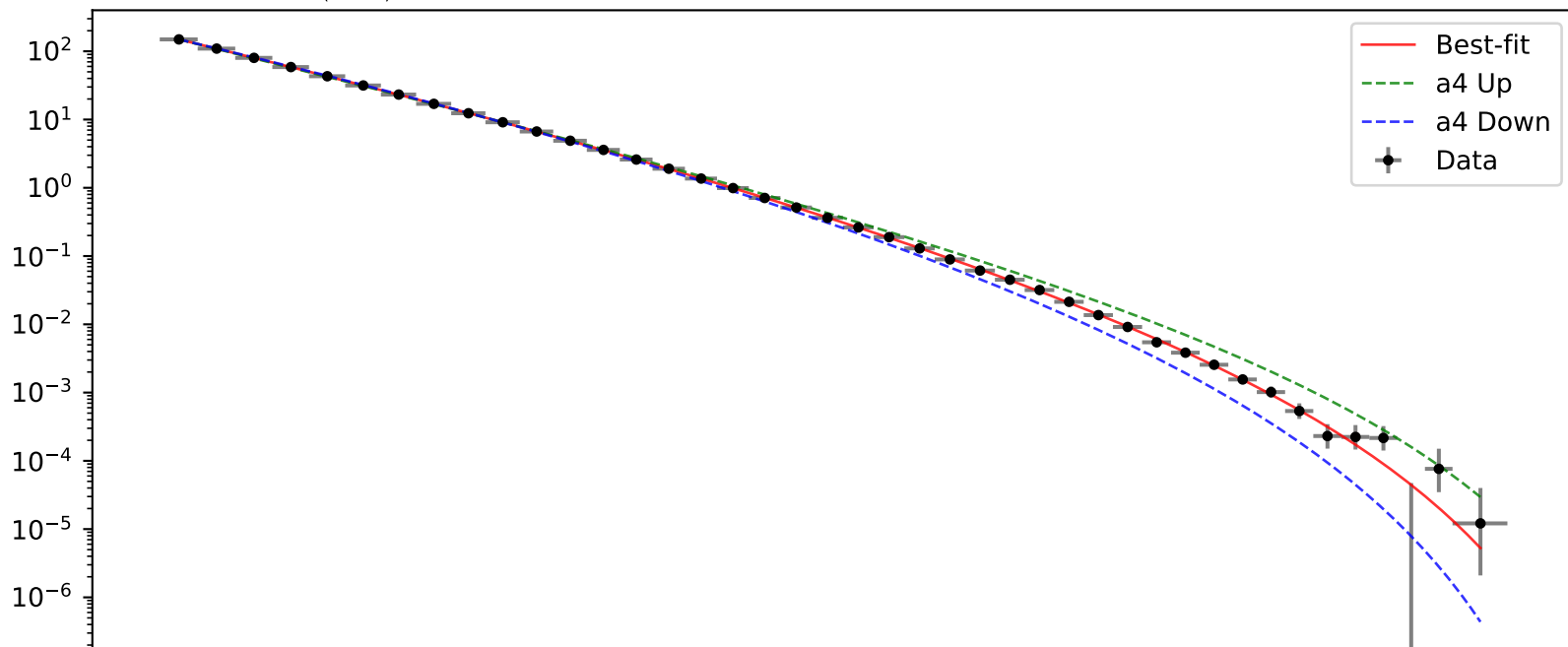
$$a3 = 0.00401, \mathbf{a4 = 46.6776^{+6.77(14.5\%)}_{-6.77(14.5\%)},}$$

$$a5 = 10.1922^{+1.32(13.0\%)}_{-1.32(13.0\%)}, a6 = -12.3868^{+2.36(19.1\%)}_{-2.36(19.1\%)},$$

$$a7 = 6.32329^{+0.353(5.58\%)}_{-0.353(5.58\%)}$$

**Candidate #18**

$$\chi^2/\text{NDF} = 38.83/37, \text{p-value} = 0.387, \text{RMSE} = 0.02581$$



$$1.0 * (a5 * (a2 + a3 * ((x0 - 1568.5) * 0.000145275) * (a4 + a6 * \exp(((x0 - 1568.5) * 0.000145275)))) * (a1 + a7 * ((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.0235286^{+0.00428(18.2\%)}_{-0.00428(18.2\%)},$$

$$a3 = 0.00401, \quad a4 = 46.6776^{+6.77(14.5\%)}_{-6.77(14.5\%)},$$

$$\mathbf{a5 = 10.1922^{+1.32(13.0\%)}_{-1.32(13.0\%)}, \quad a6 = -12.3868^{+2.36(19.1\%)}_{-2.36(19.1\%)},}$$

$$a7 = 6.32329^{+0.353(5.58\%)}_{-0.353(5.58\%)}$$

$$\chi^2/\text{NDF} = 38.83/37, \quad \text{p-value} = 0.387, \quad \text{RMSE} = 0.02581$$

**Candidate #18**




$$1.0 * (a5 * (a2 + a3 * ((x0 - 1568.5) * 0.000145275) * (a4 + a6 * \exp(((x0 - 1568.5) * 0.000145275)))) * (a1 + a7 * ((x0 - 1568.5) * 0.000145275)))$$

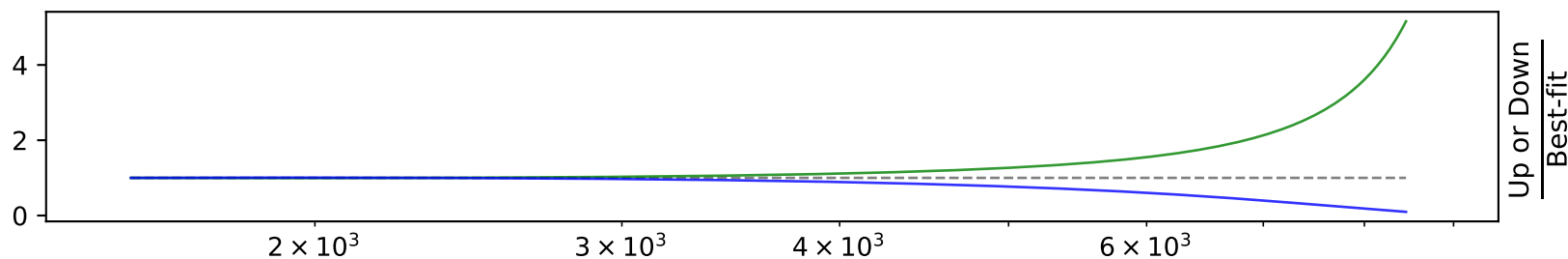
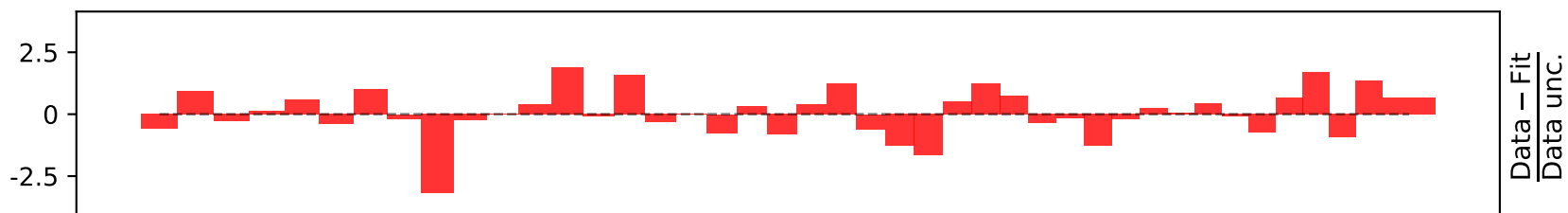
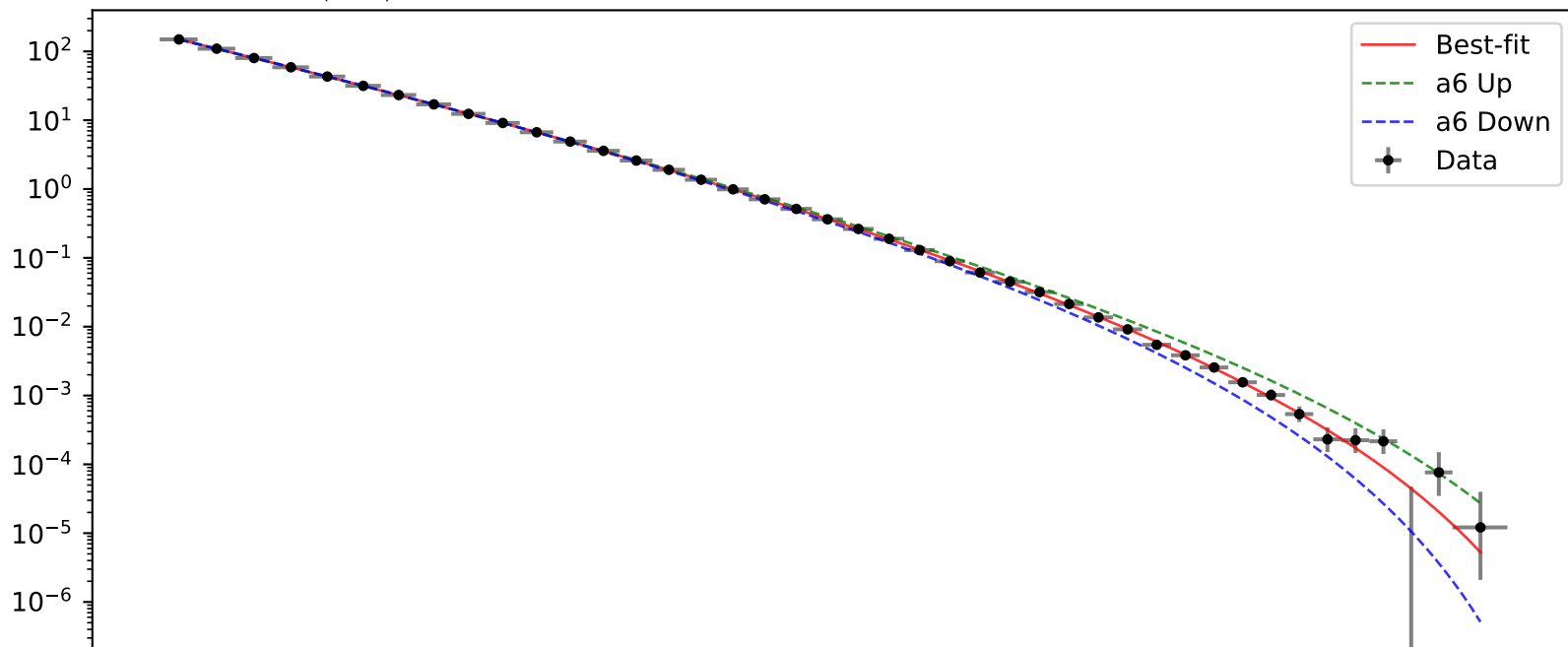
$$a1 = -0.716, \quad a2 = 0.0235286^{+0.00428(18.2\%)}_{-0.00428(18.2\%)},$$

$$a3 = 0.00401, \quad a4 = 46.6776^{+6.77(14.5\%)}_{-6.77(14.5\%)},$$

$$a5 = 10.1922^{+1.32(13.0\%)}_{-1.32(13.0\%)}, \quad a6 = -12.3868^{+2.36(19.1\%)}_{-2.36(19.1\%)},$$

$$a7 = 6.32329^{+0.353(5.58\%)}_{-0.353(5.58\%)}$$

$$\chi^2/\text{NDF} = 38.83/37, \quad \text{p-value} = 0.387, \quad \text{RMSE} = 0.02581$$

**Candidate #18**

$$1.0 * (a_5 * (a_2 + a_3 * ((x_0 - 1568.5) * 0.000145275) * (a_4 + a_6 * \exp(((x_0 - 1568.5) * 0.000145275)))) * (a_1 + a_7 * ((x_0 - 1568.5) * 0.000145275)))$$

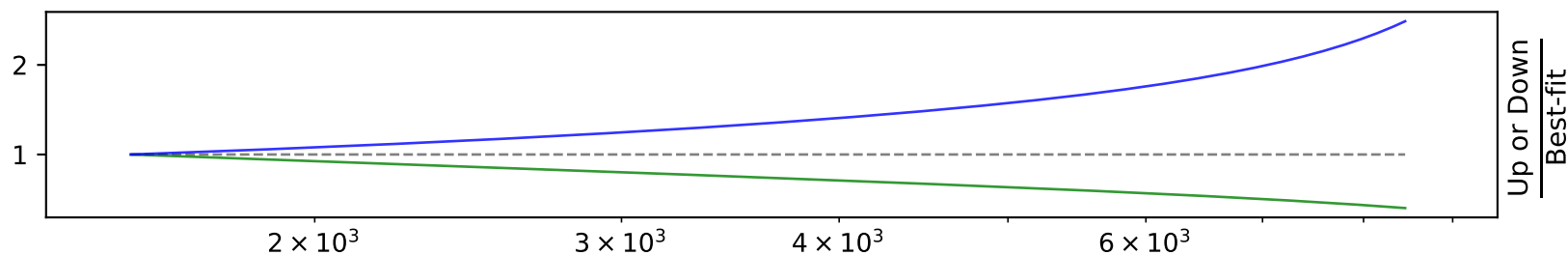
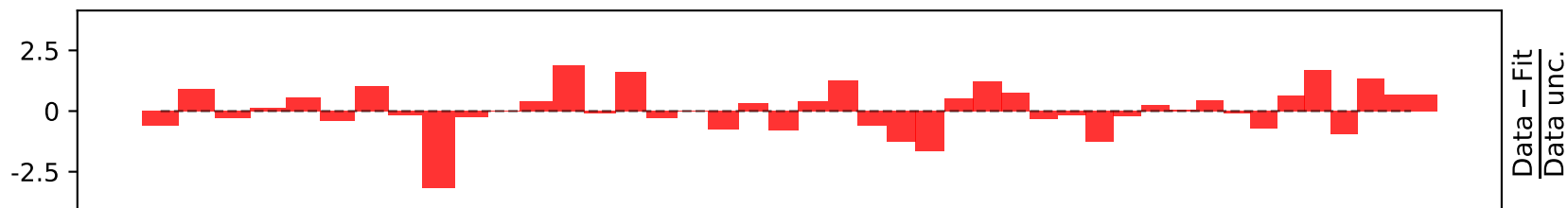
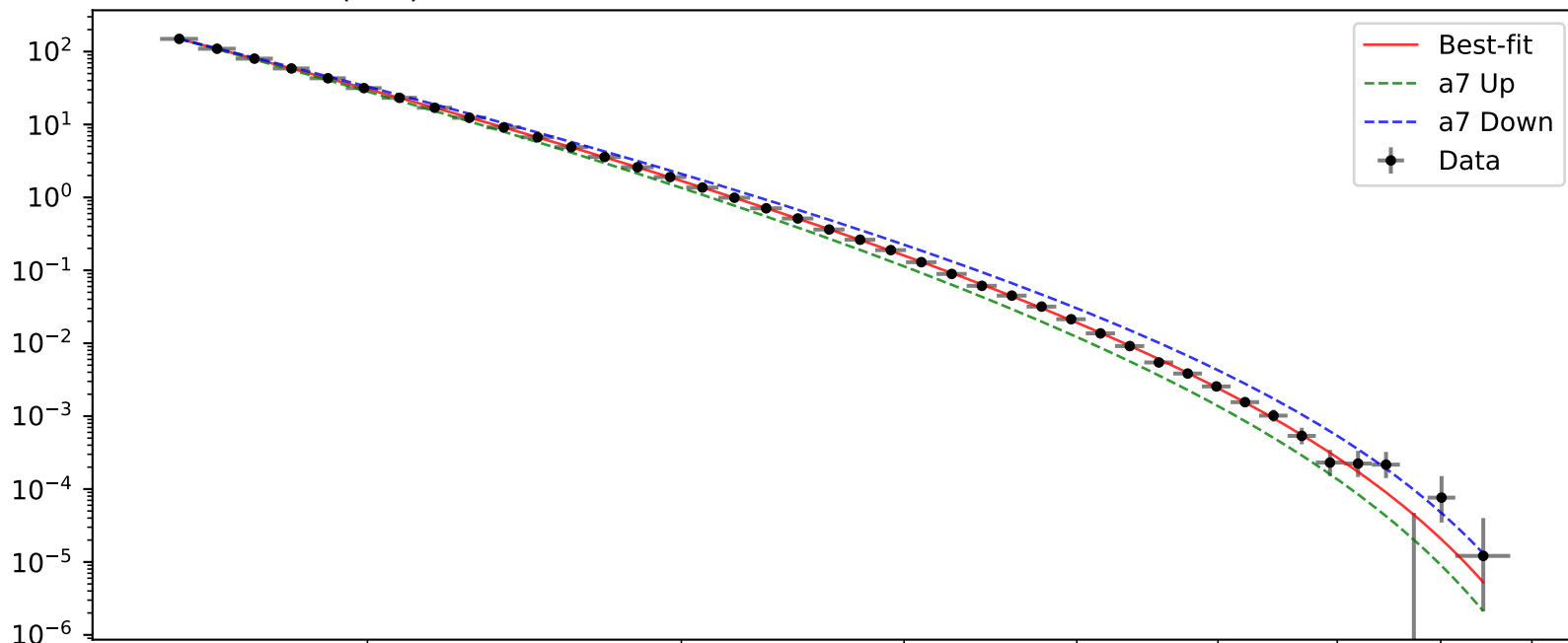
$$a_1 = -0.716, \quad a_2 = 0.0235286^{+0.00428(18.2\%)}_{-0.00428(18.2\%)},$$

$$a_3 = 0.00401, \quad a_4 = 46.6776^{+6.77(14.5\%)}_{-6.77(14.5\%)},$$

$$a_5 = 10.1922^{+1.32(13.0\%)}_{-1.32(13.0\%)}, \quad a_6 = -12.3868^{+2.36(19.1\%)}_{-2.36(19.1\%)},$$

$$a_7 = 6.32329^{+0.353(5.58\%)}_{-0.353(5.58\%)}$$

$$\chi^2/\text{NDF} = 38.83/37, \quad \text{p-value} = 0.387, \quad \text{RMSE} = 0.02581$$

**Candidate #18**

Candidate function #17

$$1.0*(a5*(a3 + (a2 + a4*\exp(((x0 - 1568.5) * 0.000145275))))*\tanh((((x0 - 1568.5) * 0.000145275)))**((a1 + a6*((x0 - 1568.5) * 0.000145275))))$$

$$\begin{aligned} a1 &= -0.696476^{+0.0173(2.48\%)}_{-0.0173(2.48\%)}, \quad a2 = 0.000341251, \\ a3 &= 0.000356694^{+7.04e-05(19.7\%)}_{-7.04e-05(19.7\%)}, \quad a4 = 0.00361974^{+0.000642(17.7\%)}_{-0.000642(17.7\%)}, \\ a5 &= 0.594, \quad a6 = 2.59306^{+0.0641(2.47\%)}_{-0.0641(2.47\%)} \end{aligned}$$

**Candidate #17**

$$\chi^2/\text{NDF} = 164.1/38, \text{ p-value} = 1.315\text{e-}17, \text{ RMSE} = 0.08033$$



$$1.0 * (a_5 * (a_3 + (a_2 + a_4 * \exp(((x_0 - 1568.5) * 0.000145275))) * \tanh(((x_0 - 1568.5) * 0.000145275))) * (a_1 + a_6 * ((x_0 - 1568.5) * 0.000145275)))$$

$$a_1 = -0.696476^{+0.0173(2.48\%)}_{-0.0173(2.48\%)}, \quad a_2 = 0.000341251,$$

$$a_3 = 0.000356694^{+7.04e-05(19.7\%)}_{-7.04e-05(19.7\%)}, \quad a_4 = 0.00361974^{+0.000642(17.7\%)}_{-0.000642(17.7\%)},$$

$$a_5 = 0.594, \quad a_6 = 2.59306^{+0.0641(2.47\%)}_{-0.0641(2.47\%)}$$

**Candidate #17**

$$\chi^2/\text{NDF} = 164.1/38, \text{ p-value} = 1.315e-17, \text{ RMSE} = 0.08033$$



$$1.0 * (a_5 * (a_3 + (a_2 + a_4 * \exp(((x_0 - 1568.5) * 0.000145275))) * \tanh(((x_0 - 1568.5) * 0.000145275))) * (a_1 + a_6 * ((x_0 - 1568.5) * 0.000145275)))$$

$$a_1 = -0.696476^{+0.0173(2.48\%)}_{-0.0173(2.48\%)}, \quad a_2 = 0.000341251,$$

$$a_3 = 0.000356694^{+7.04e-05(19.7\%)}_{-7.04e-05(19.7\%)}, \quad \mathbf{a_4 = 0.00361974^{+0.000642(17.7\%)}_{-0.000642(17.7\%)},}$$

$$a_5 = 0.594, \quad a_6 = 2.59306^{+0.0641(2.47\%)}_{-0.0641(2.47\%)}$$

**Candidate #17**

$$\chi^2/\text{NDF} = 164.1/38, \text{ p-value} = 1.315e-17, \text{ RMSE} = 0.08033$$



$$1.0 * (a_5 * (a_3 + (a_2 + a_4 * \exp(((x_0 - 1568.5) * 0.000145275))) * \tanh(((x_0 - 1568.5) * 0.000145275))) * (a_1 + a_6 * ((x_0 - 1568.5) * 0.000145275)))$$

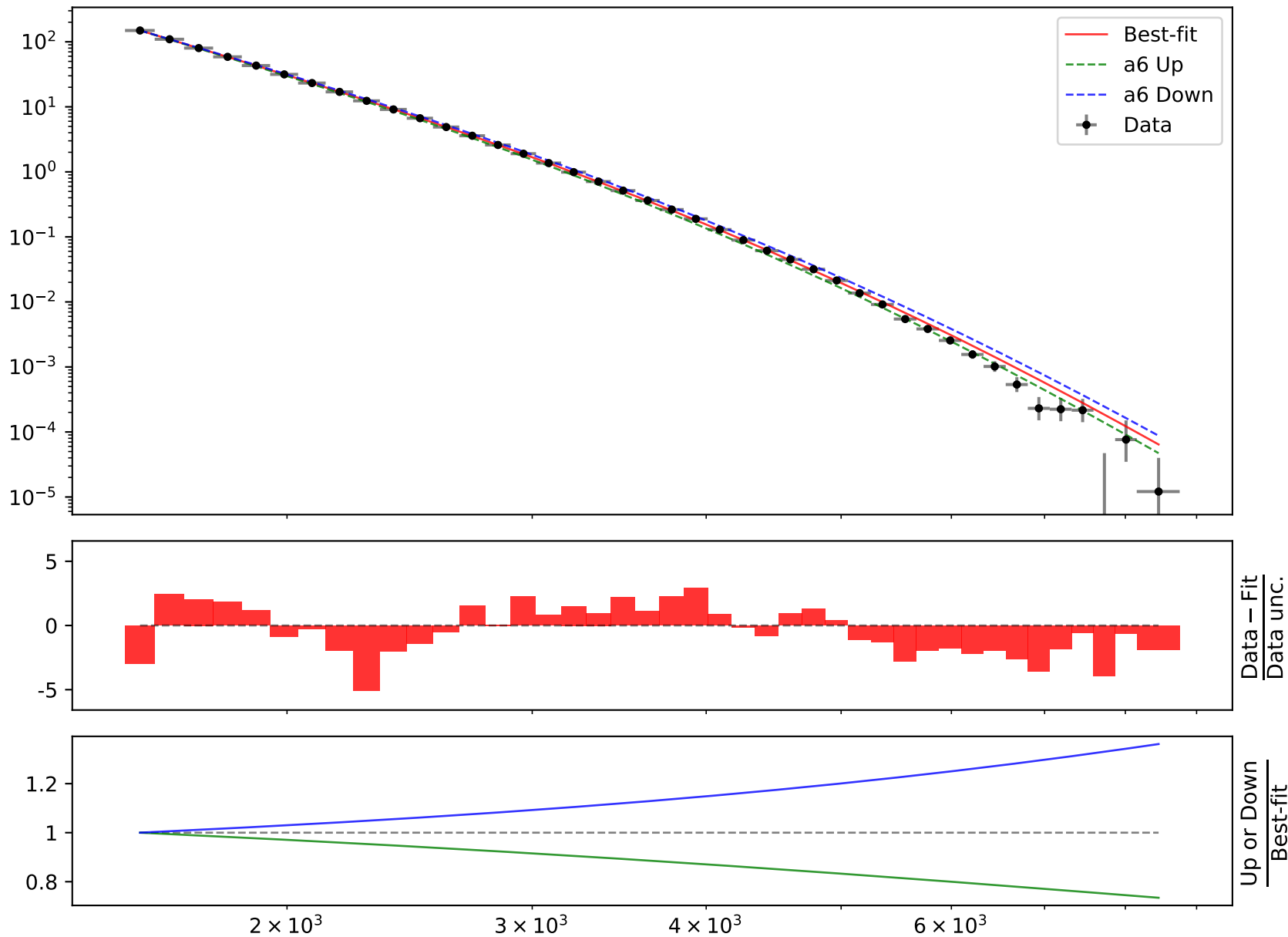
$$a_1 = -0.696476^{+0.0173(2.48\%)}_{-0.0173(2.48\%)}, \quad a_2 = 0.000341251,$$

$$a_3 = 0.000356694^{+7.04e-05(19.7\%)}_{-7.04e-05(19.7\%)}, \quad a_4 = 0.00361974^{+0.000642(17.7\%)}_{-0.000642(17.7\%)},$$

$$a_5 = 0.594, \quad a_6 = 2.59306^{+0.0641(2.47\%)}_{-0.0641(2.47\%)}$$

**Candidate #17**

$$\chi^2/\text{NDF} = 164.1/38, \text{ p-value} = 1.315e-17, \text{ RMSE} = 0.08033$$



Candidate function #16



$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = \mathbf{0.00341192}^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$a3 = 0.0294527^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad a4 = 2.56138^{+0.329(12.8\%)}_{-0.329(12.8\%)},$$

$$a5 = 3.8767^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

**Candidate #16** $\chi^2/\text{NDF} = 119.8/38$ , p-value = 2.077e-10, RMSE = 0.06574

$$1.0 \cdot (a_4 \cdot (a_2 + a_3 \cdot ((x_0 - 1568.5) \cdot 0.000145275)) \cdot (a_1 + a_5 \cdot ((x_0 - 1568.5) \cdot 0.000145275)))$$

$$a_1 = -0.716, \quad a_2 = 0.00341192^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$\mathbf{a_3 = 0.0294527^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad a_4 = 2.56138^{+0.329(12.8\%)}_{-0.329(12.8\%)},$$

$$a_5 = 3.8767^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

**Candidate #16**

$$\chi^2/\text{NDF} = 119.8/38, \quad \text{p-value} = 2.077\text{e-}10, \quad \text{RMSE} = 0.06574$$



$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.00341192^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$a3 = 0.0294527^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad \mathbf{a4 = 2.56138^{+0.329(12.8\%)}_{-0.329(12.8\%)},}$$

$$a5 = 3.8767^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

$$\chi^2/\text{NDF} = 119.8/38, \text{ p-value} = 2.077\text{e-}10, \text{ RMSE} = 0.06574$$

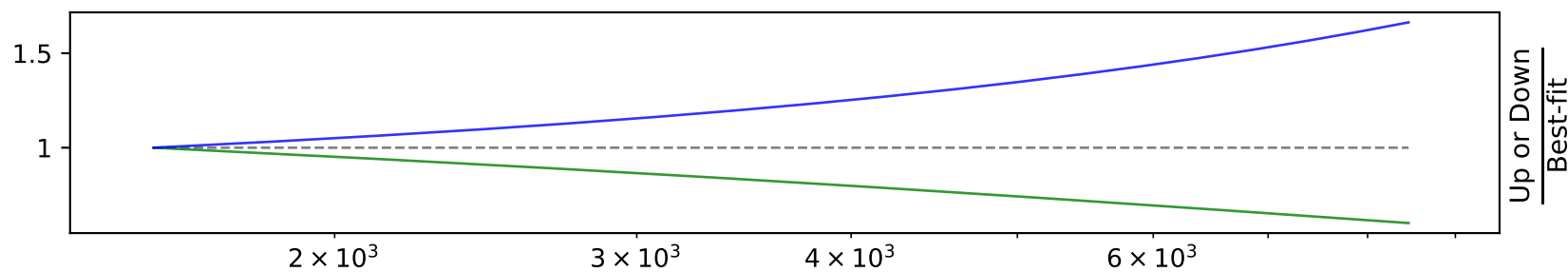
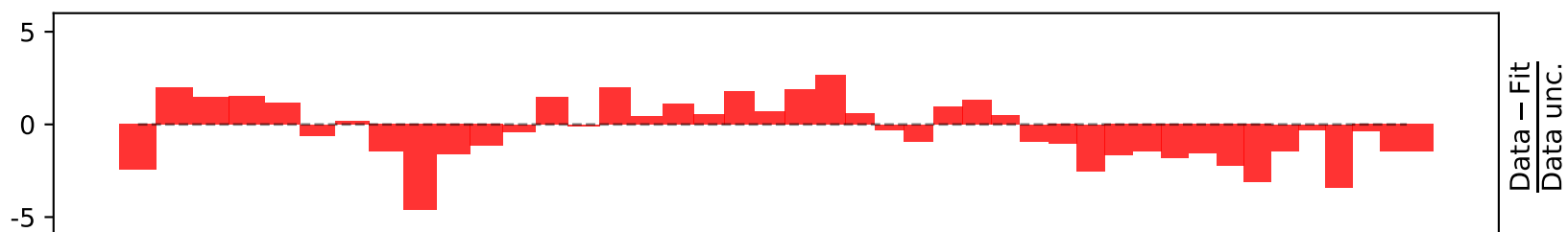
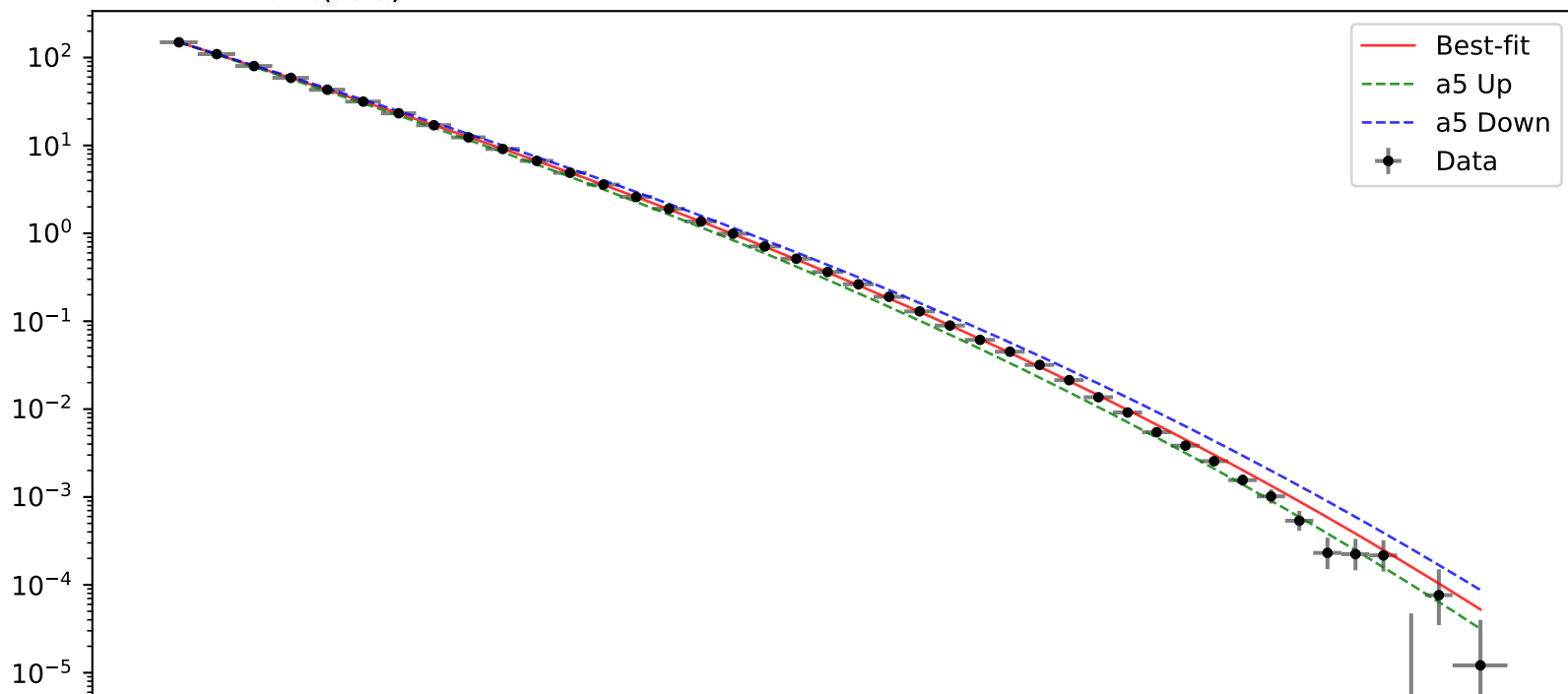
**Candidate #16**


$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.00341192^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$a3 = 0.0294527^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad a4 = 2.56138^{+0.329(12.8\%)}_{-0.329(12.8\%)},$$

$$a5 = 3.8767^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

**Candidate #16** $\chi^2/\text{NDF} = 119.8/38$ , p-value = 2.077e-10, RMSE = 0.06574

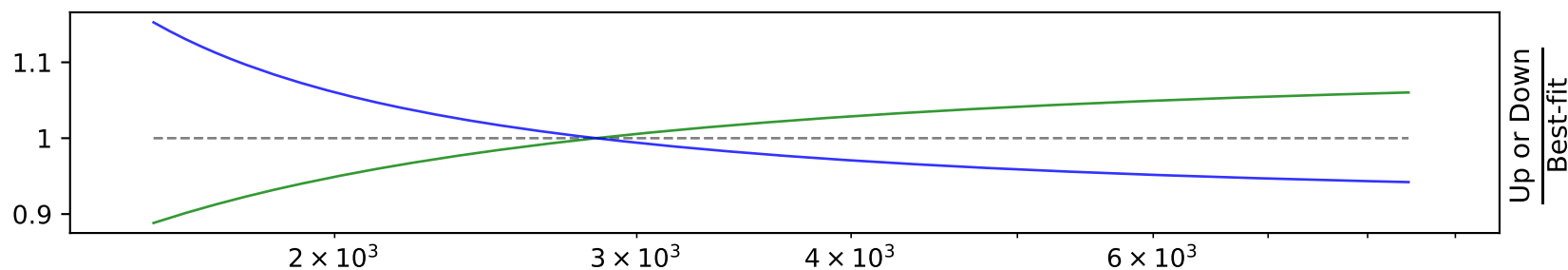
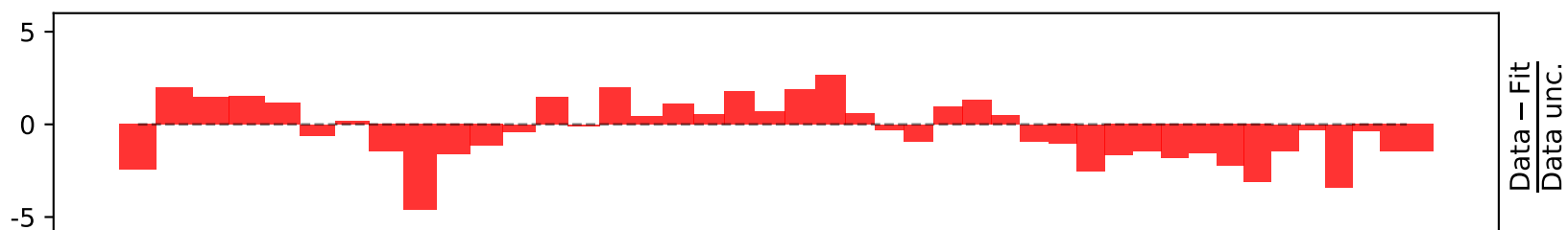
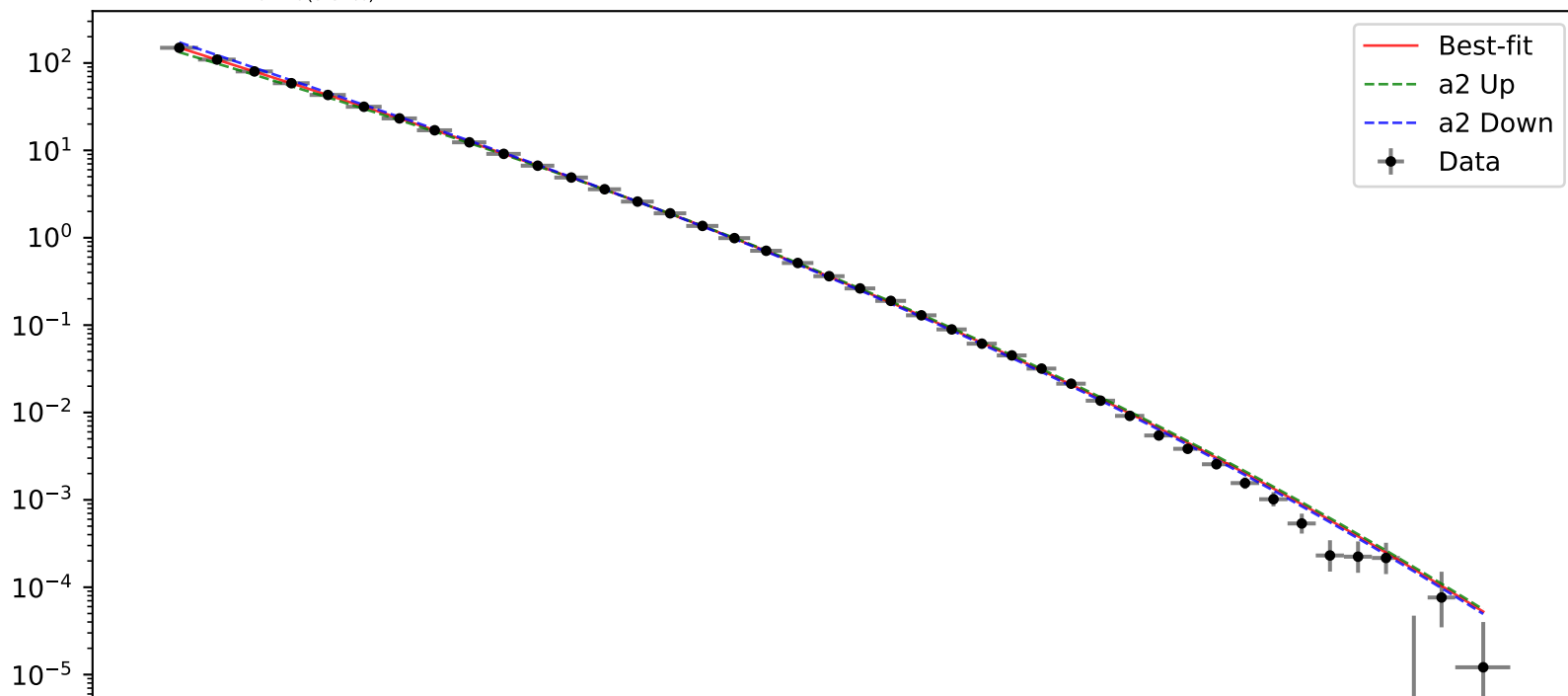
Candidate function #15

$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = \mathbf{0.0034119}^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$a3 = 0.0294526^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad a4 = 2.56137^{+0.329(12.8\%)}_{-0.329(12.8\%)},$$

$$a5 = 3.8767^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

**Candidate #15** $\chi^2/\text{NDF} = 119.8/38$ , p-value = 2.077e-10, RMSE = 0.06575

$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.0034119^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$\mathbf{a3 = 0.0294526^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad a4 = 2.56137^{+0.329(12.8\%)}_{-0.329(12.8\%)},$$

$$a5 = 3.8767^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

**Candidate #15**

$$\chi^2/\text{NDF} = 119.8/38, \text{ p-value} = 2.077\text{e-}10, \text{ RMSE} = 0.06575$$



$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.0034119^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$a3 = 0.0294526^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad \mathbf{a4 = 2.56137^{+0.329(12.8\%)}_{-0.329(12.8\%)},}$$

$$a5 = 3.8767^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

$$\chi^2/\text{NDF} = 119.8/38, \text{ p-value} = 2.077\text{e-}10, \text{ RMSE} = 0.06575$$

**Candidate #15**

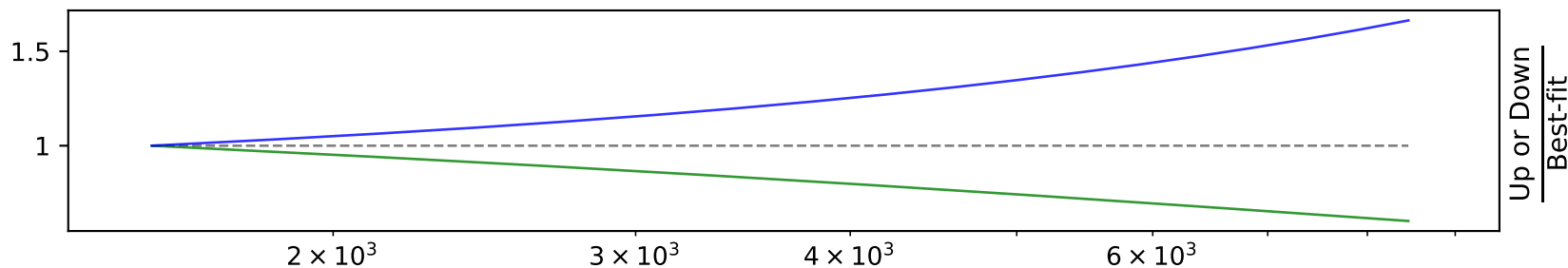
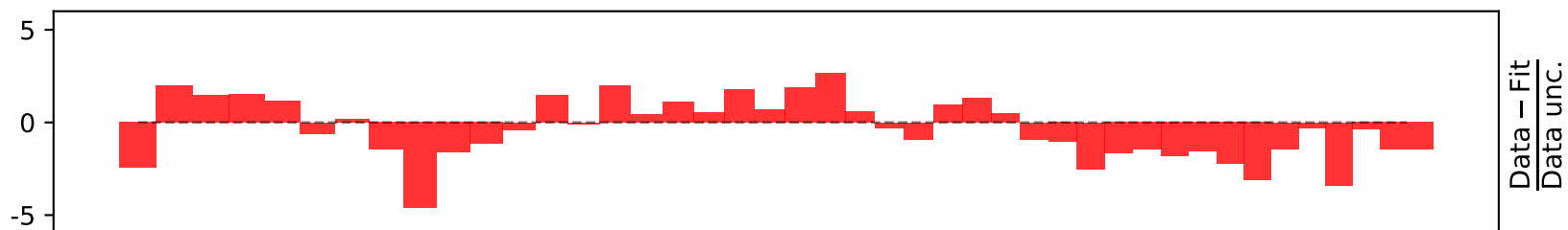
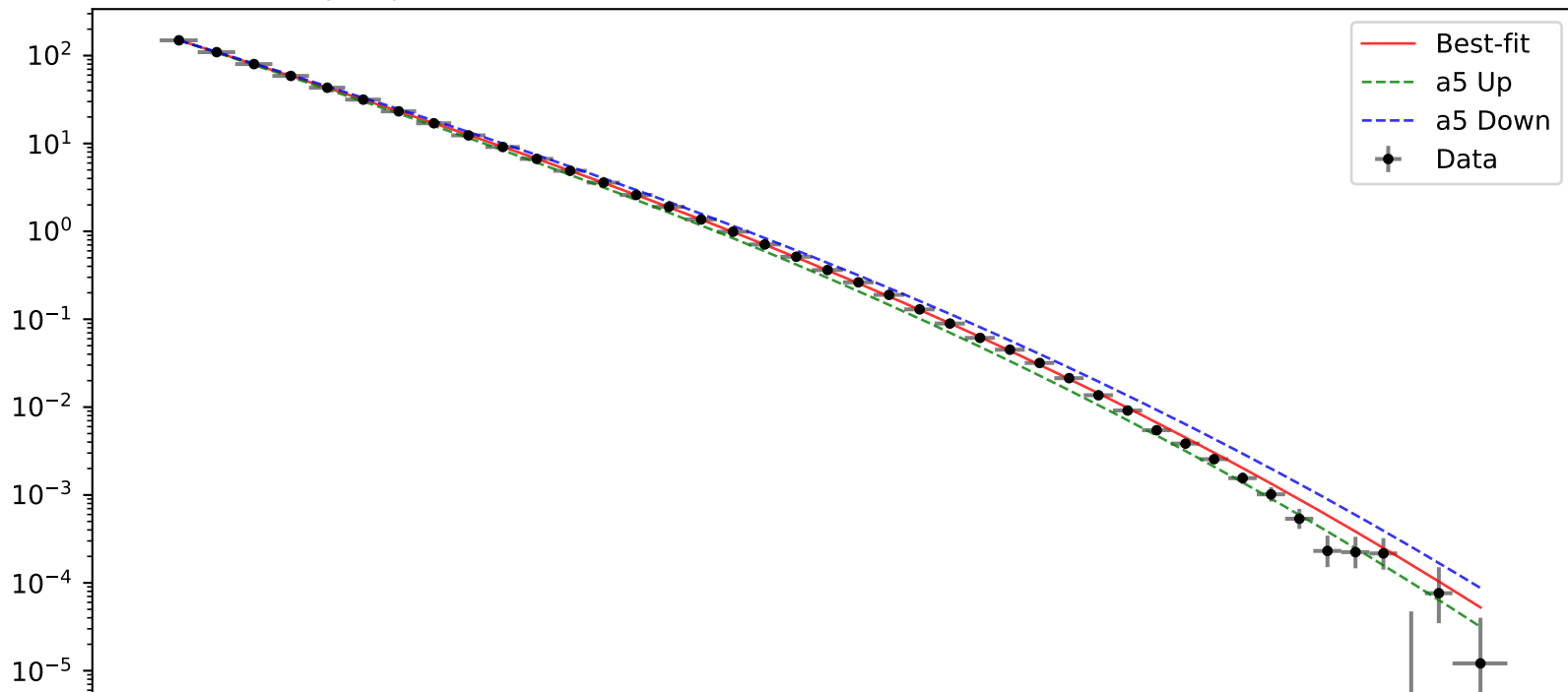



$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.0034119^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$a3 = 0.0294526^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad a4 = 2.56137^{+0.329(12.8\%)}_{-0.329(12.8\%)},$$

$$a5 = 3.8767^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

**Candidate #15** $\chi^2/\text{NDF} = 119.8/38$ , p-value = 2.077e-10, RMSE = 0.06575

Candidate function #14

$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = \mathbf{0.00341188}^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$a3 = 0.0294524^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad a4 = 2.56135^{+0.329(12.8\%)}_{-0.329(12.8\%)},$$

$$a5 = 3.87669^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

**Candidate #14** $\chi^2/\text{NDF} = 119.8/38$ , p-value = 2.077e-10, RMSE = 0.06573

$$1.0 \cdot (a_4 \cdot (a_2 + a_3 \cdot ((x_0 - 1568.5) \cdot 0.000145275)) \cdot (a_1 + a_5 \cdot ((x_0 - 1568.5) \cdot 0.000145275)))$$

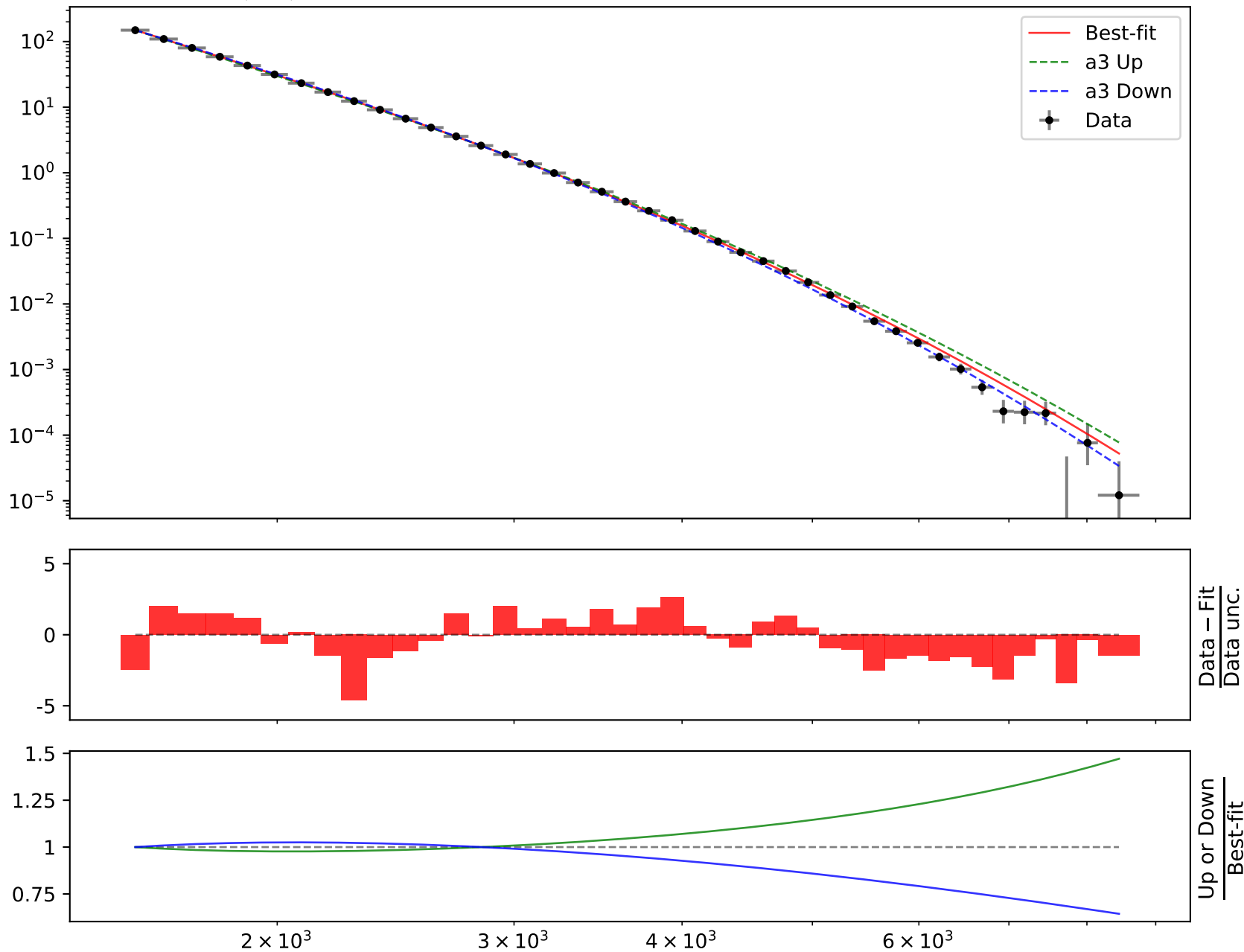
$$a_1 = -0.716, \quad a_2 = 0.00341188^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$\mathbf{a_3 = 0.0294524^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad a_4 = 2.56135^{+0.329(12.8\%)}_{-0.329(12.8\%)},$$

$$a_5 = 3.87669^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

**Candidate #14**

$$\chi^2/\text{NDF} = 119.8/38, \text{ p-value} = 2.077\text{e-}10, \text{ RMSE} = 0.06573$$



$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.00341188^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$a3 = 0.0294524^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad \mathbf{a4 = 2.56135^{+0.329(12.8\%)}_{-0.329(12.8\%)},}$$

$$a5 = 3.87669^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

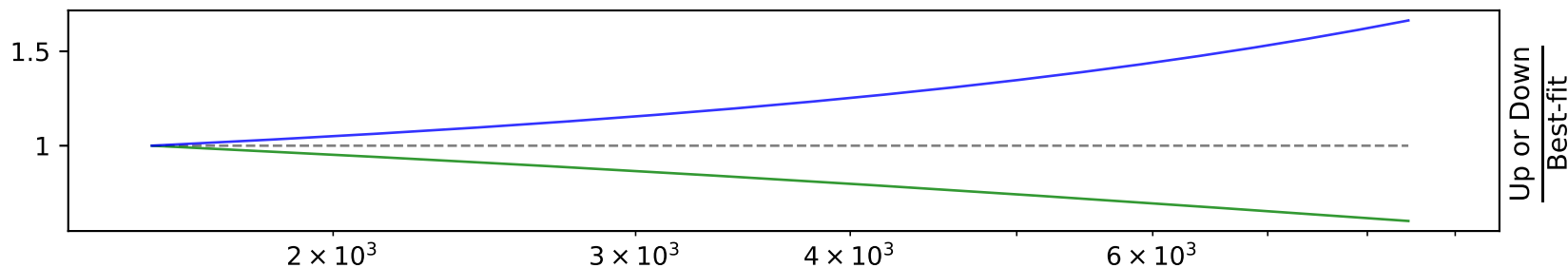
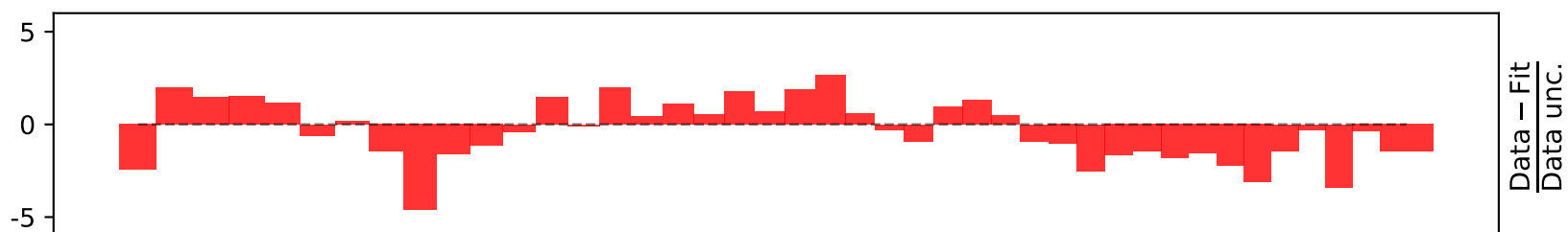
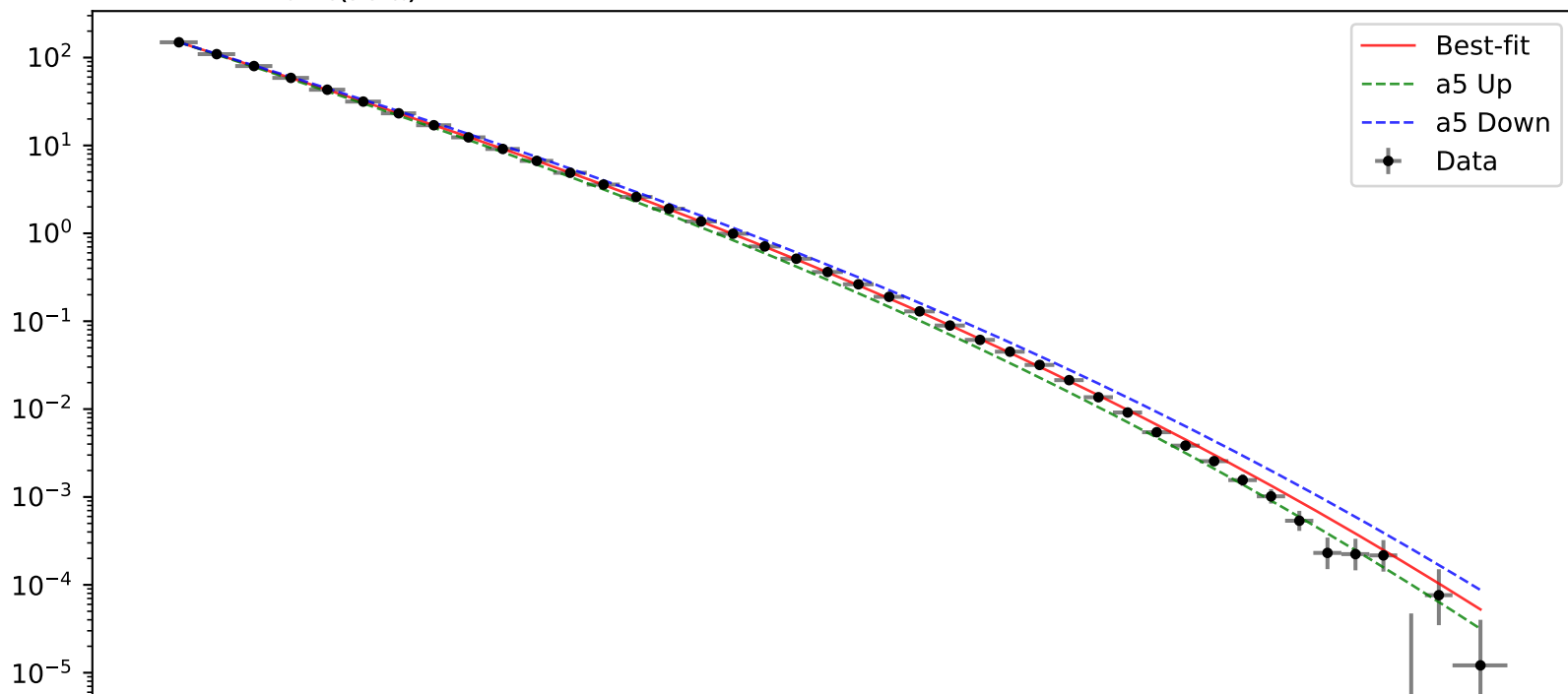
**Candidate #14** $\chi^2/\text{NDF} = 119.8/38$ , p-value = 2.077e-10, RMSE = 0.06573

$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.00341188^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$a3 = 0.0294524^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad a4 = 2.56135^{+0.329(12.8\%)}_{-0.329(12.8\%)},$$

$$a5 = 3.87669^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

**Candidate #14** $\chi^2/\text{NDF} = 119.8/38$ , p-value = 2.077e-10, RMSE = 0.06573

Candidate function #13

$$1.0*(a4*(a2*\tanh(a3 + ((x0 - 1568.5) * 0.000145275)))*(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.0687374^{+0.00739(10.8\%)}_{-0.00739(10.8\%)},$$

$$a3 = 0.136738^{+0.00481(3.52\%)}_{-0.00481(3.52\%)}, \quad a4 = 5.26359^{+0.532(10.1\%)}_{-0.532(10.1\%)},$$

$$a5 = 4.89074^{+0.176(3.6\%)}_{-0.176(3.6\%)}$$

**Candidate #13** $\chi^2/\text{NDF} = 63.91/38$ , p-value = 0.005331, RMSE = 0.0411



$$1.0*(a4*(a2*\tanh(a3 + ((x0 - 1568.5) * 0.000145275)))*(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.0687374^{+0.00739(10.8\%)}_{-0.00739(10.8\%)},$$

$$a3 = 0.136738^{+0.00481(3.52\%)}_{-0.00481(3.52\%)}, \quad a4 = 5.26359^{+0.532(10.1\%)}_{-0.532(10.1\%)},$$

$$a5 = 4.89074^{+0.176(3.6\%)}_{-0.176(3.6\%)}$$

**Candidate #13** $\chi^2/\text{NDF} = 63.91/38$ , p-value = 0.005331, RMSE = 0.0411

$$1.0*(a4*(a2*\tanh(a3 + ((x0 - 1568.5) * 0.000145275)))*(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.0687374^{+0.00739(10.8\%)}_{-0.00739(10.8\%)},$$

$$a3 = 0.136738^{+0.00481(3.52\%)}_{-0.00481(3.52\%)}, \quad a4 = 5.26359^{+0.532(10.1\%)}_{-0.532(10.1\%)},$$

$$a5 = 4.89074^{+0.176(3.6\%)}_{-0.176(3.6\%)}$$

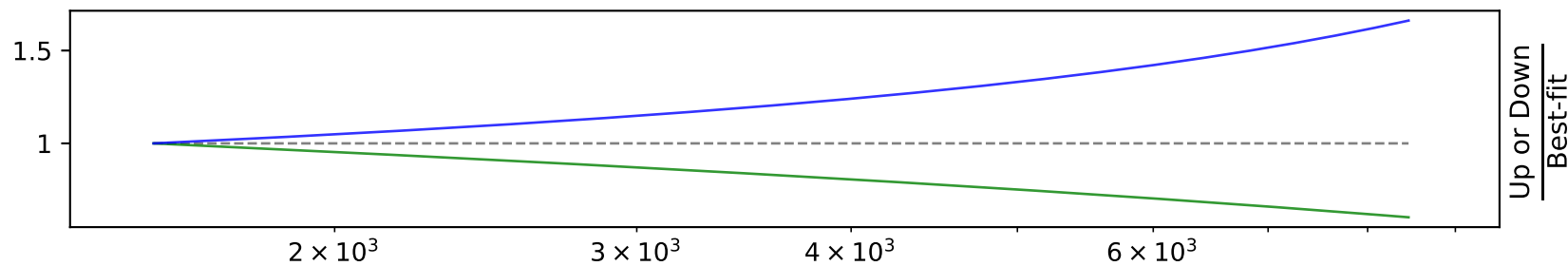
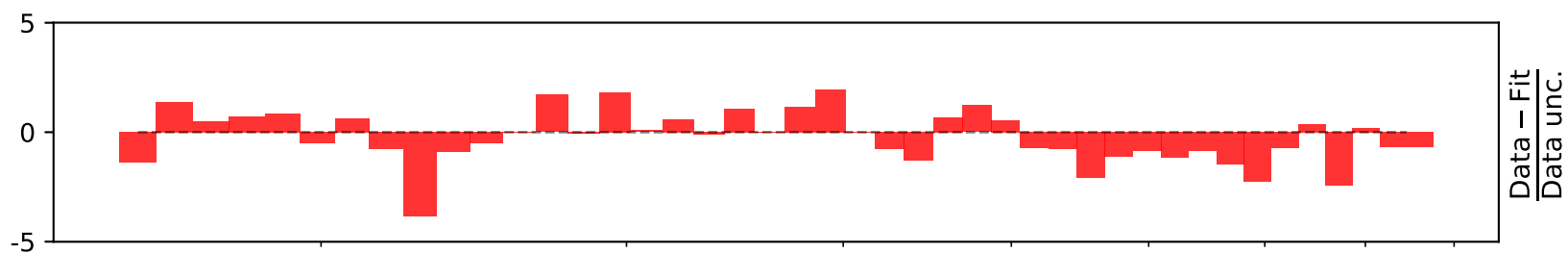
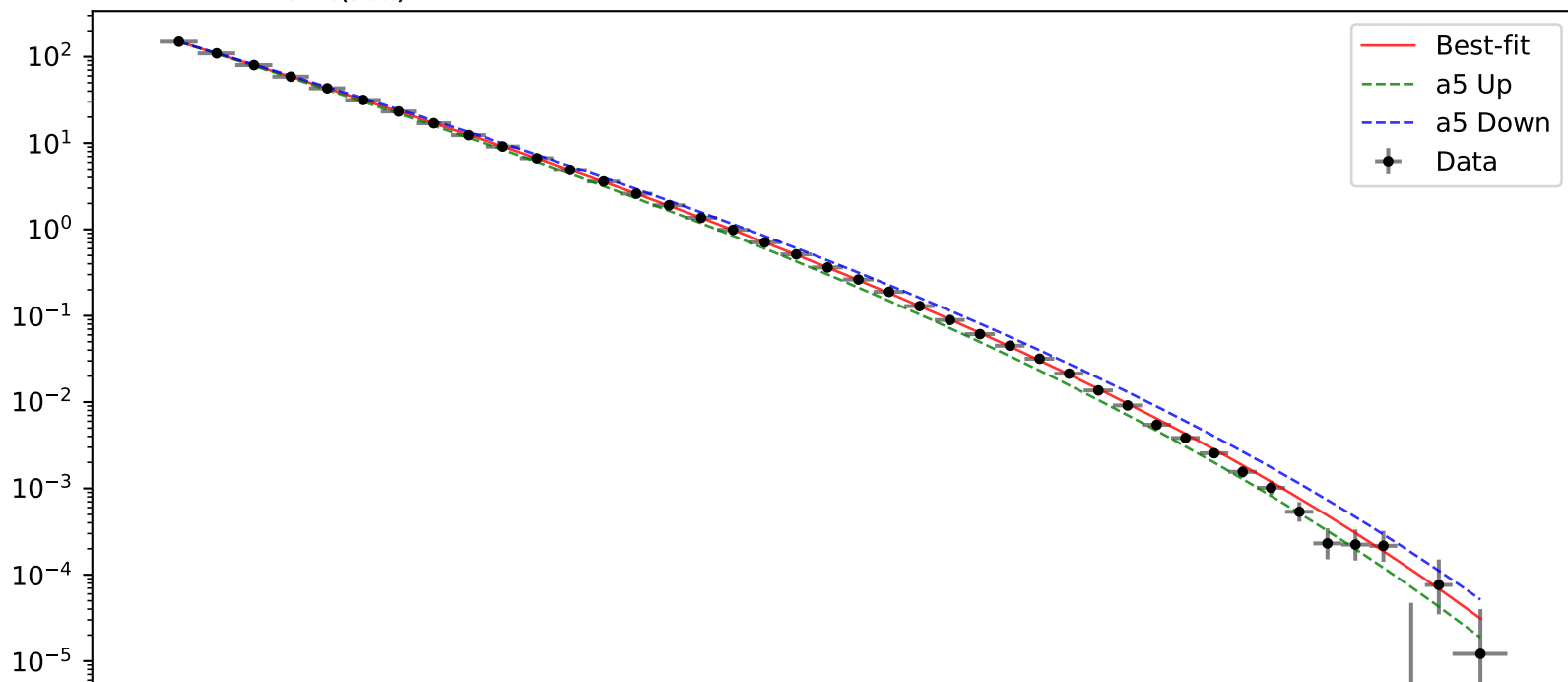
**Candidate #13** $\chi^2/\text{NDF} = 63.91/38$ , p-value = 0.005331, RMSE = 0.0411

$$1.0*(a4*(a2*\tanh(a3 + ((x0 - 1568.5) * 0.000145275)))*(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.0687374^{+0.00739(10.8\%)}_{-0.00739(10.8\%)},$$

$$a3 = 0.136738^{+0.00481(3.52\%)}_{-0.00481(3.52\%)}, \quad a4 = 5.26359^{+0.532(10.1\%)}_{-0.532(10.1\%)},$$

$$a5 = 4.89074^{+0.176(3.6\%)}_{-0.176(3.6\%)}$$

**Candidate #13** $\chi^2/\text{NDF} = 63.91/38$ , p-value = 0.005331, RMSE = 0.0411

Candidate function #12

$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = \mathbf{0.00341192}^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$a3 = 0.0294526^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad a4 = 2.56137^{+0.329(12.8\%)}_{-0.329(12.8\%)},$$

$$a5 = 3.8767^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

**Candidate #12** $\chi^2/\text{NDF} = 119.8/38$ , p-value = 2.077e-10, RMSE = 0.06573

$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.00341192^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$\mathbf{a3 = 0.0294526^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad a4 = 2.56137^{+0.329(12.8\%)}_{-0.329(12.8\%)},$$

$$a5 = 3.8767^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

**Candidate #12**

$$\chi^2/\text{NDF} = 119.8/38, \quad \text{p-value} = 2.077\text{e-}10, \quad \text{RMSE} = 0.06573$$



$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.00341192^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$a3 = 0.0294526^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad \mathbf{a4 = 2.56137^{+0.329(12.8\%)}_{-0.329(12.8\%)},}$$

$$a5 = 3.8767^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

$$\chi^2/\text{NDF} = 119.8/38, \text{ p-value} = 2.077\text{e-}10, \text{ RMSE} = 0.06573$$

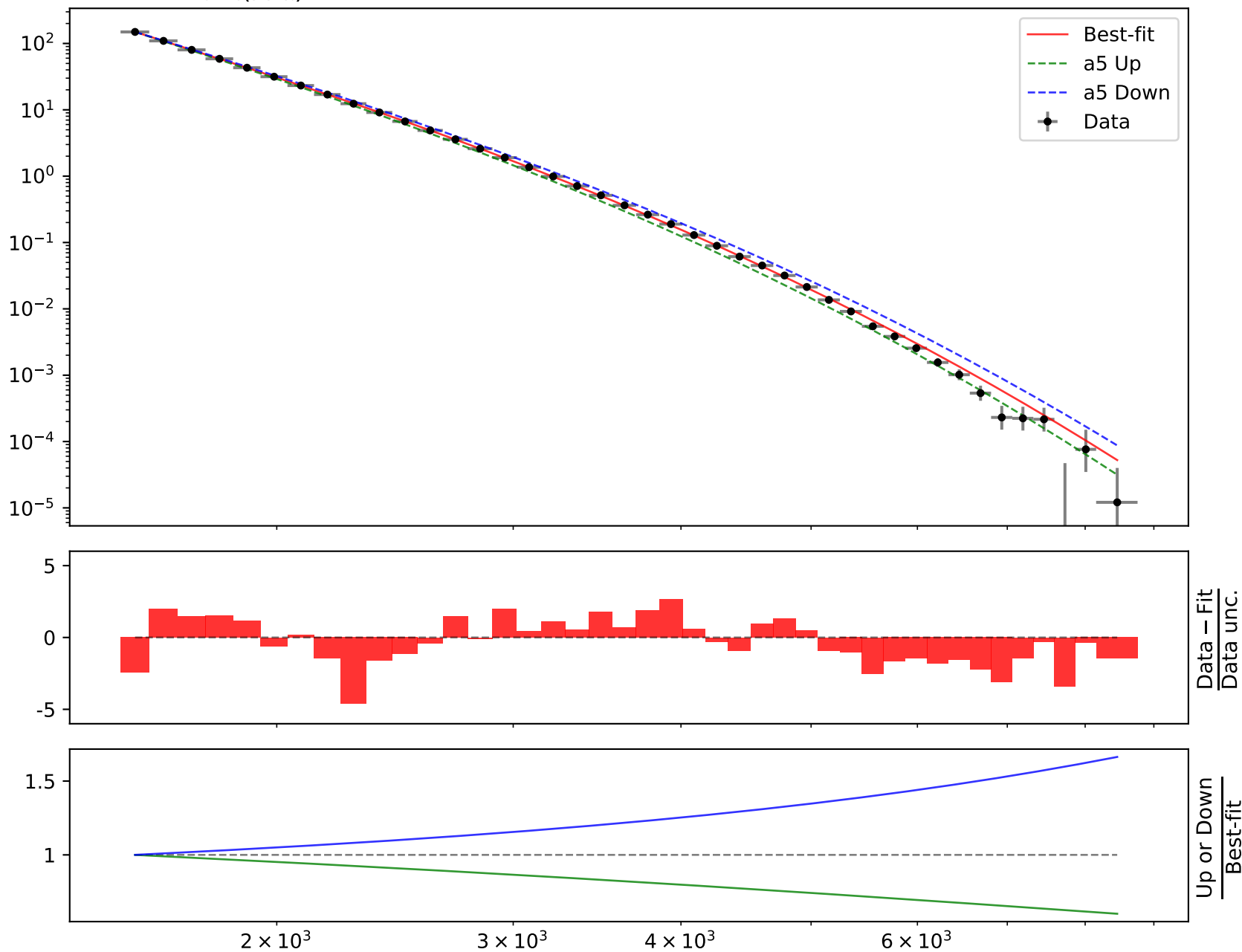
**Candidate #12**

$$1.0*(a4*(a2 + a3*((x0 - 1568.5) * 0.000145275))**(a1 + a5*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = -0.716, \quad a2 = 0.00341192^{+0.000614(18.0\%)}_{-0.000614(18.0\%)},$$

$$a3 = 0.0294526^{+0.00427(14.5\%)}_{-0.00427(14.5\%)}, \quad a4 = 2.56137^{+0.329(12.8\%)}_{-0.329(12.8\%)},$$

$$a5 = 3.8767^{+0.149(3.84\%)}_{-0.149(3.84\%)}$$

**Candidate #12** $\chi^2/\text{NDF} = 119.8/38$ , p-value = 2.077e-10, RMSE = 0.06573



Candidate function #11

$$1.0 * (a2 * (a1 * ((x0 - 1568.5) * 0.000145275) * \exp(2 * ((x0 - 1568.5) * 0.000145275))) * (((x0 - 1568.5) * 0.000145275) + \tanh(((x0 - 1568.5) * 0.000145275))))$$

$$a1 = 5.47913e - 05^{+1.83e - 06(3.34\%)}_{-1.83e - 06(3.34\%)}, \quad a2 = 148.994^{+0.616(0.413\%)}_{-0.616(0.413\%)}$$

**Candidate #11** $\chi^2/\text{NDF} = 2666.0/40$ , p-value = 0.0, RMSE = 0.3562

$$1.0 * (a2 * (a1 * ((x0 - 1568.5) * 0.000145275) * \exp(2 * ((x0 - 1568.5) * 0.000145275))) * (((x0 - 1568.5) * 0.000145275) + \tanh(((x0 - 1568.5) * 0.000145275))))$$

$$a1 = 5.47913e-05^{+1.83e-06(3.34\%)}_{-1.83e-06(3.34\%)}, \quad a2 = 148.994^{+0.616(0.413\%)}_{-0.616(0.413\%)}$$

**Candidate #11** $\chi^2/\text{NDF} = 2666.0/40$ , p-value = 0.0, RMSE = 0.3562

Candidate function #10

$$1.0*(a2*(a1*((x0 - 1568.5) * 0.000145275)*\exp(((x0 - 1568.5) * 0.000145275)))*(2*\tanh(((x0 - 1568.5) * 0.000145275))))$$

$$a1 = 6.08442e - 05^{+2.37e - 06(3.9\%)}_{-2.37e - 06(3.9\%)}, \quad a2 = 148.569^{+0.713(0.48\%)}_{-0.713(0.48\%)}$$

**Candidate #10** $\chi^2/\text{NDF} = 3564.0/40$ , p-value = 0.0, RMSE = 0.3934

$$1.0 * (a2 * (a1 * ((x0 - 1568.5) * 0.000145275) * \exp(((x0 - 1568.5) * 0.000145275))) * (2 * \tanh(((x0 - 1568.5) * 0.000145275))))$$

$$a1 = 6.08442e-05^{+2.37e-06(3.9\%)}_{-2.37e-06(3.9\%)}, \quad a2 = 148.569^{+0.713(0.48\%)}_{-0.713(0.48\%)}$$

**Candidate #10** $\chi^2/\text{NDF} = 3564.0/40$ , p-value = 0.0, RMSE = 0.3934

Candidate function #9

$$1.0 * (a2 * (a1 * ((x0 - 1568.5) * 0.000145275) * \exp(((x0 - 1568.5) * 0.000145275))) * ((x0 - 1568.5) * 0.000145275) + \tanh(((x0 - 1568.5) * 0.000145275)))$$

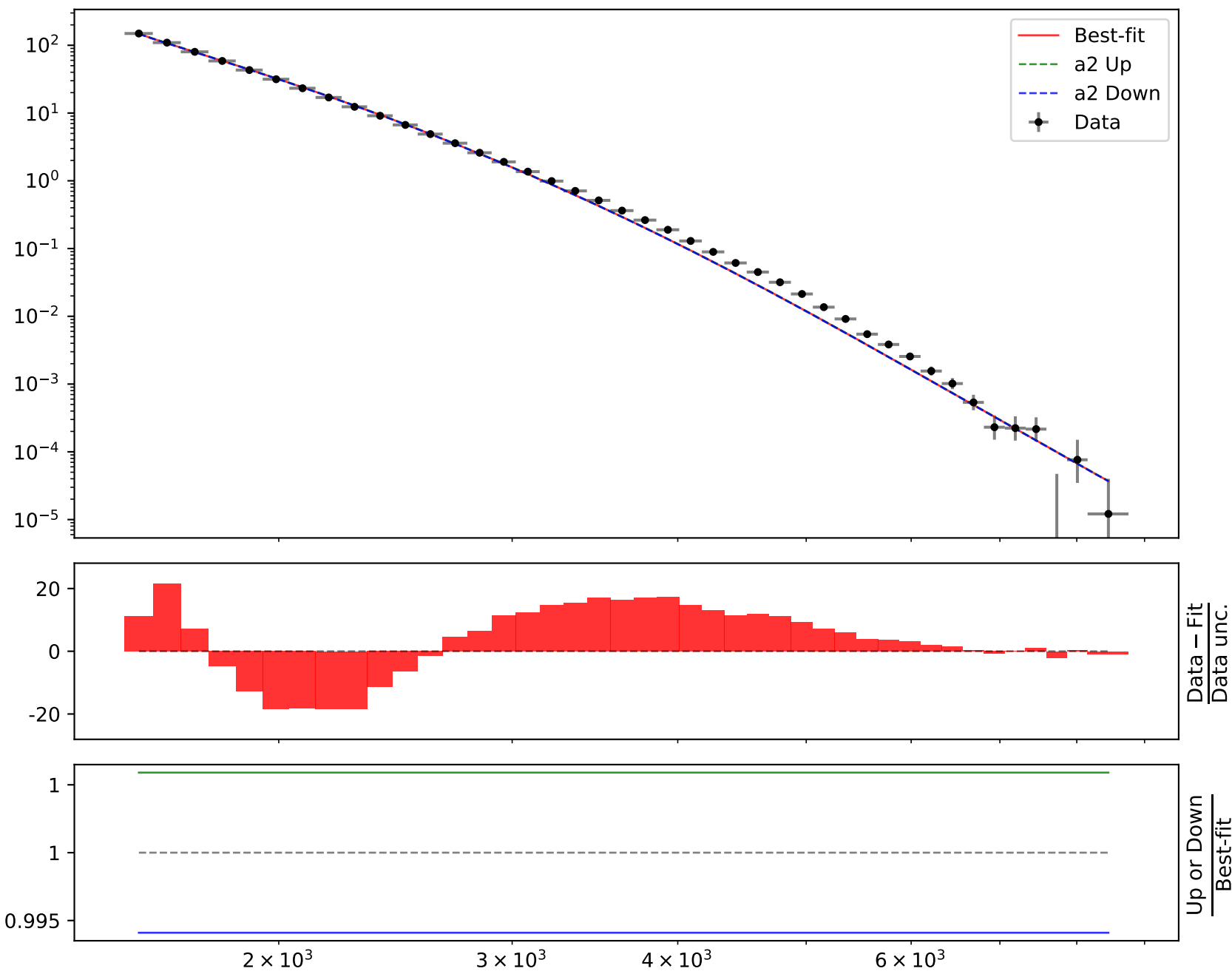
$$a1 = 6.57839e-05^{+3.18e-06(4.83\%)}_{-3.18e-06(4.83\%)}, a2 = 147.952^{+0.873(0.59\%)}_{-0.873(0.59\%)}$$

**Candidate #9** $\chi^2/\text{NDF} = 5316.0/40$ , p-value = 0.0, RMSE = 0.4835



$$1.0 * (a2 * (a1 * ((x0 - 1568.5) * 0.000145275) * \exp(((x0 - 1568.5) * 0.000145275))) * (((x0 - 1568.5) * 0.000145275) + \tanh(((x0 - 1568.5) * 0.000145275))))$$

$$a1 = 6.57839e-05^{+3.18e-06(4.83\%)}_{-3.18e-06(4.83\%)}, \quad a2 = 147.952^{+0.873(0.59\%)}_{-0.873(0.59\%)}$$

**Candidate #9** $\chi^2/\text{NDF} = 5316.0/40$ , p-value = 0.0, RMSE = 0.4835

Candidate function #8

$$1.0*(a2*(a1*((x0 - 1568.5) * 0.000145275))*((2*\tanh(((x0 - 1568.5) * 0.000145275))))$$

$$a1 = 7.30493e - 05^{+3.9e-06(5.34\%)}_{-3.9e-06(5.34\%)}, \quad a2 = 147.523^{+0.953(0.646\%)}_{-0.953(0.646\%)}$$

**Candidate #8** $\chi^2/\text{NDF} = 6322.0/40$ , p-value = 0.0, RMSE = 0.539

$$1.0*(a2*(a1*((x0 - 1568.5) * 0.000145275))**(2*\tanh(((x0 - 1568.5) * 0.000145275))))$$

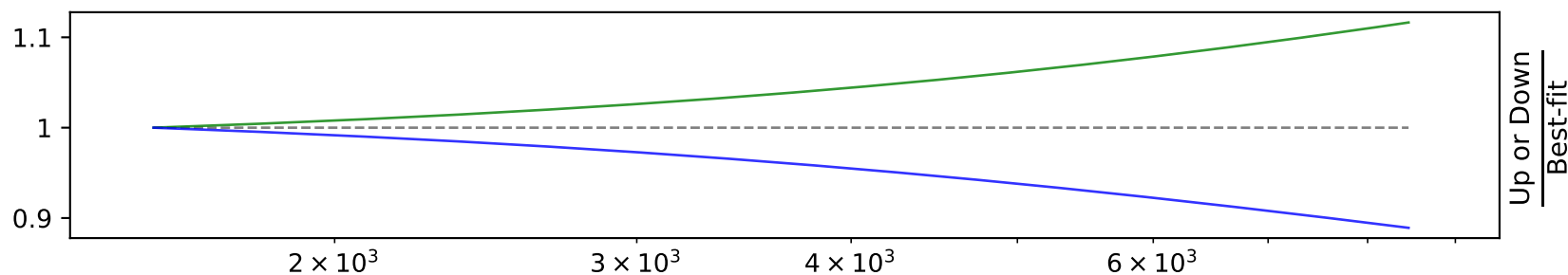
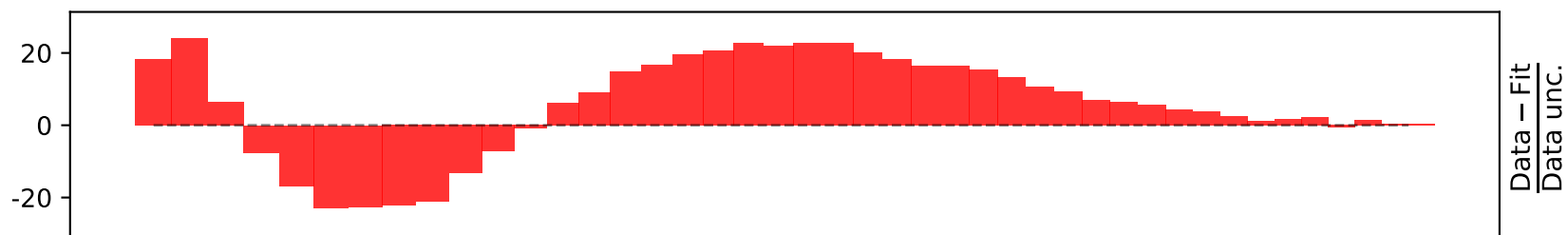
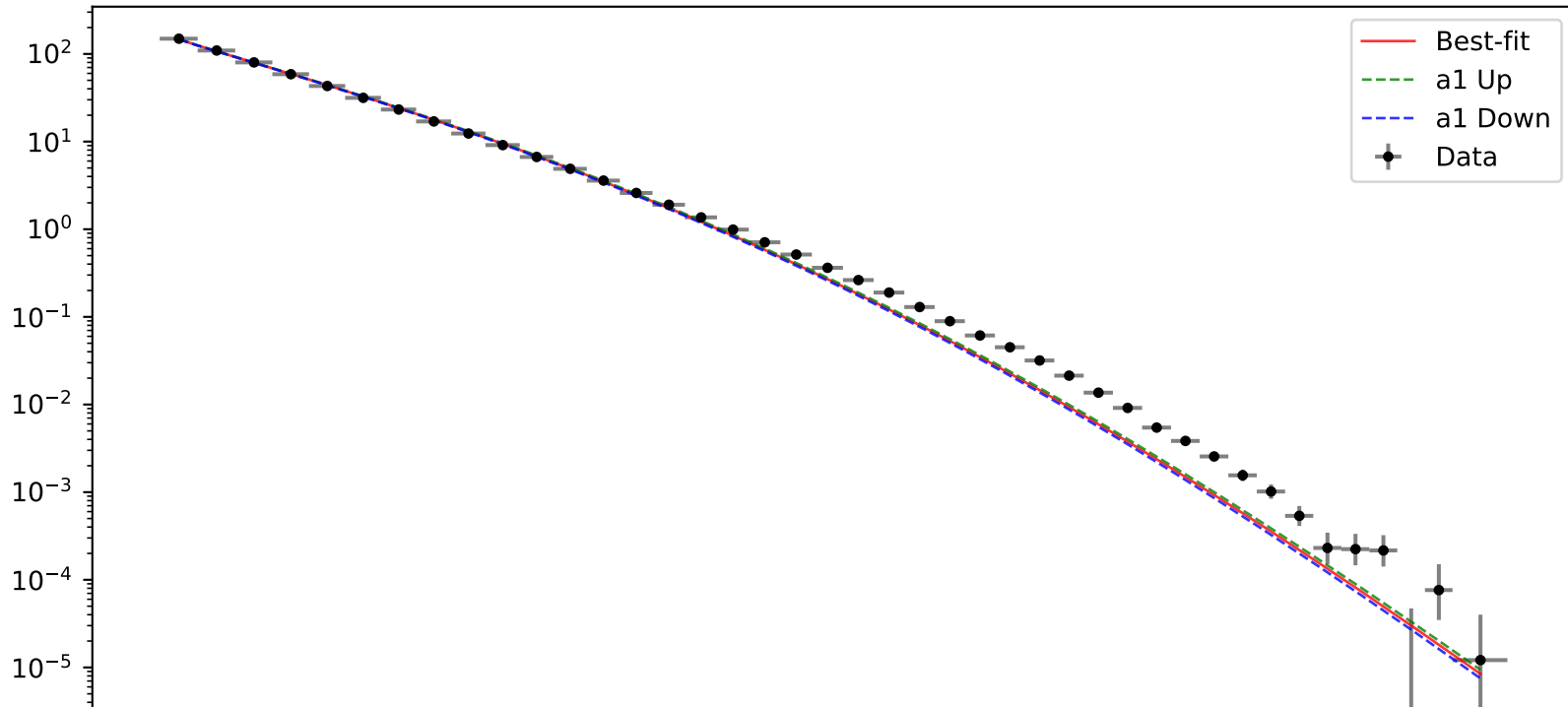
$$a1 = 7.30493e-05^{+3.9e-06(5.34\%)}_{-3.9e-06(5.34\%)}, \quad a2 = 147.523^{+0.953(0.646\%)}_{-0.953(0.646\%)}$$

**Candidate #8** $\chi^2/\text{NDF} = 6322.0/40$ , p-value = 0.0, RMSE = 0.539

Candidate function #7

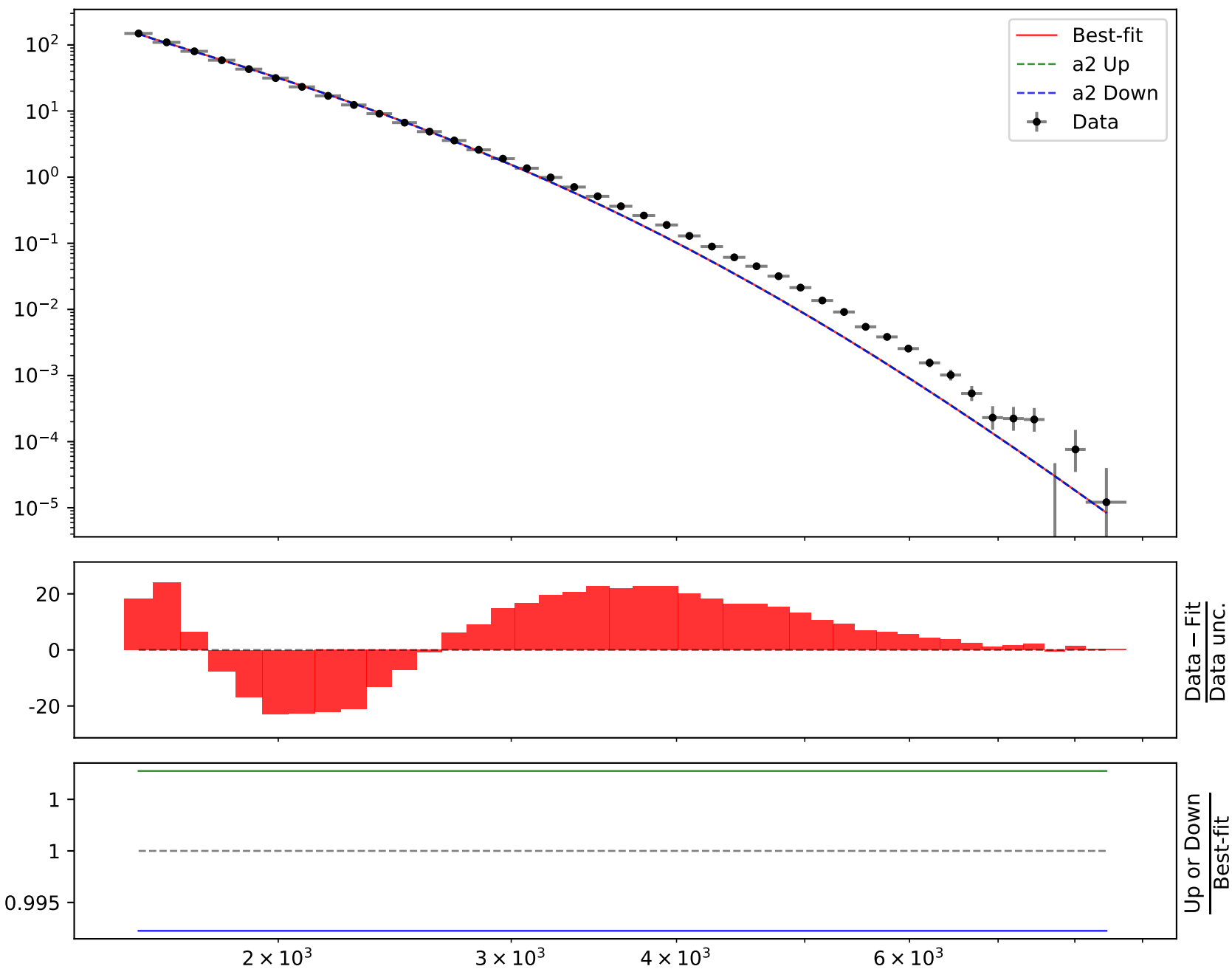
$$1.0 * (a2 * (a1 * ((x0 - 1568.5) * 0.000145275)) * (((x0 - 1568.5) * 0.000145275) + \tanh(((x0 - 1568.5) * 0.000145275))))$$

$$a1 = 7.75121e-05^{+5e-06(6.45\%)}_{-5e-06(6.45\%)}, a2 = 147.093^{+1.14(0.775\%)}_{-1.14(0.775\%)}$$

**Candidate #7** $\chi^2/\text{NDF} = 9040.0/40$ , p-value = 0.0, RMSE = 0.6106

$$1.0*(a2*(a1*((x0 - 1568.5) * 0.000145275))**(((x0 - 1568.5) * 0.000145275) + \tanh(((x0 - 1568.5) * 0.000145275))))$$

$$a1 = 7.75121e-05^{+5e-06(6.45\%)}_{-5e-06(6.45\%)}, \quad a2 = 147.093^{+1.14(0.775\%)}_{-1.14(0.775\%)}$$

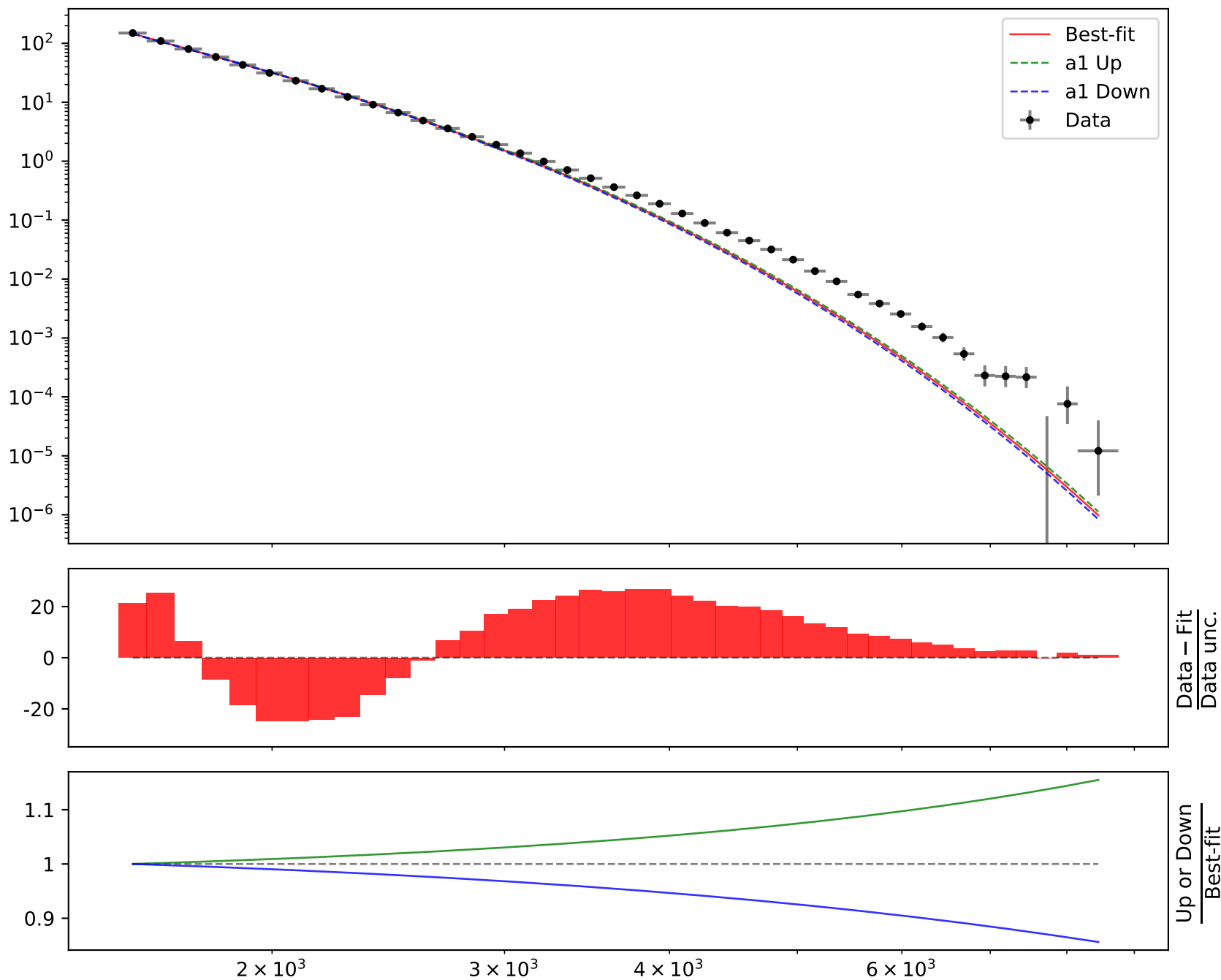
**Candidate #7** $\chi^2/\text{NDF} = 9040.0/40$ , p-value = 0.0, RMSE = 0.6106

Candidate function #6



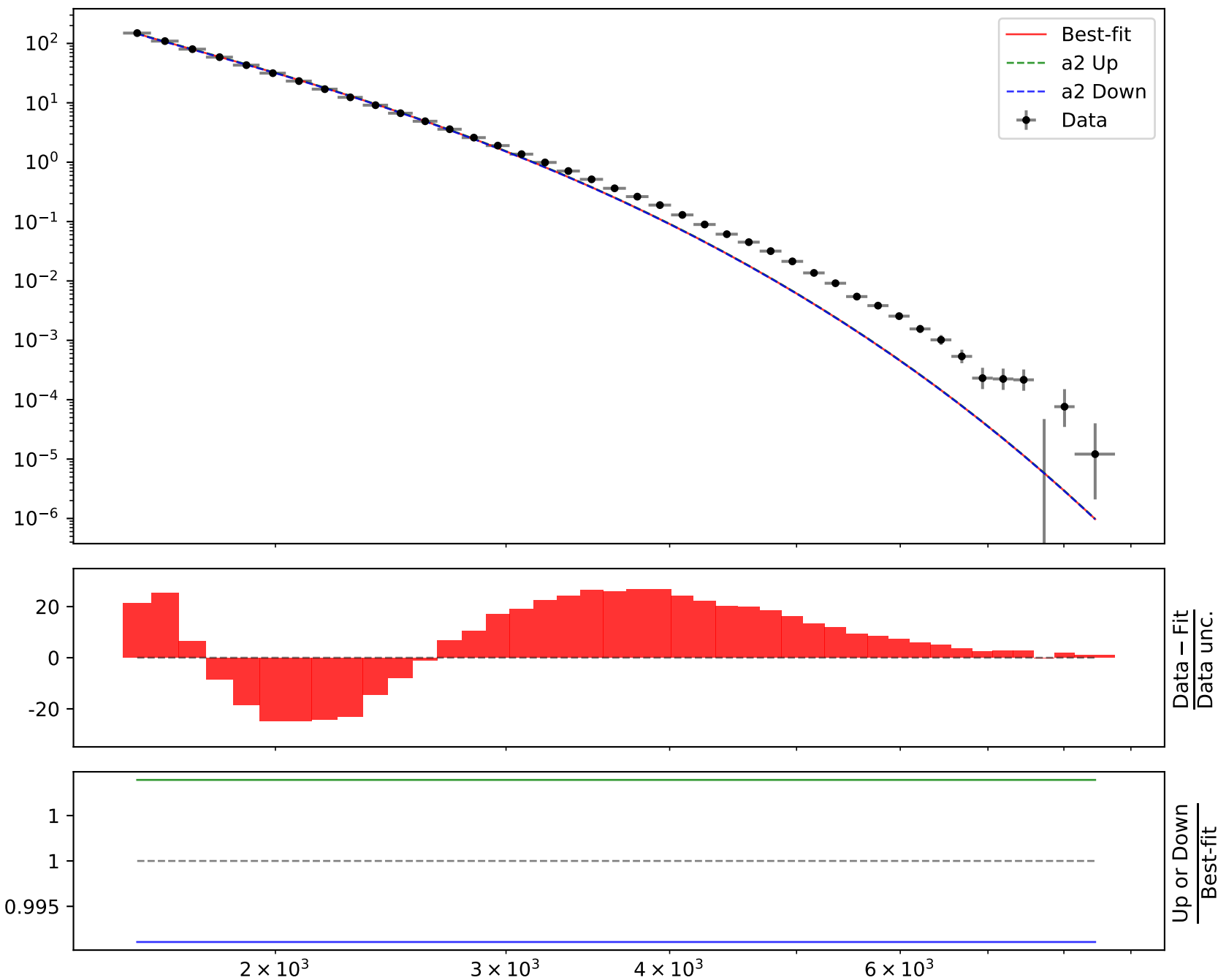
$$1.0*(a2*(a1*((x0 - 1568.5) * 0.000145275))**(2*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = 8.15668e - 05^{+6.09e - 06(7.47\%)}_{-6.09e - 06(7.47\%)}, \quad a2 = 146.743^{+1.31(0.893\%)}_{-1.31(0.893\%)}$$

**Candidate #6** $\chi^2/\text{NDF} = 11950.0/40$ , p-value = 0.0, RMSE = 0.6705

$$1.0*(a2*(a1*((x0 - 1568.5) * 0.000145275))**(2*((x0 - 1568.5) * 0.000145275)))$$

$$a1 = 8.15668e-05^{+6.09e-06(7.47\%)}_{-6.09e-06(7.47\%)}, \quad a2 = 146.743^{+1.31(0.893\%)}_{-1.31(0.893\%)}$$

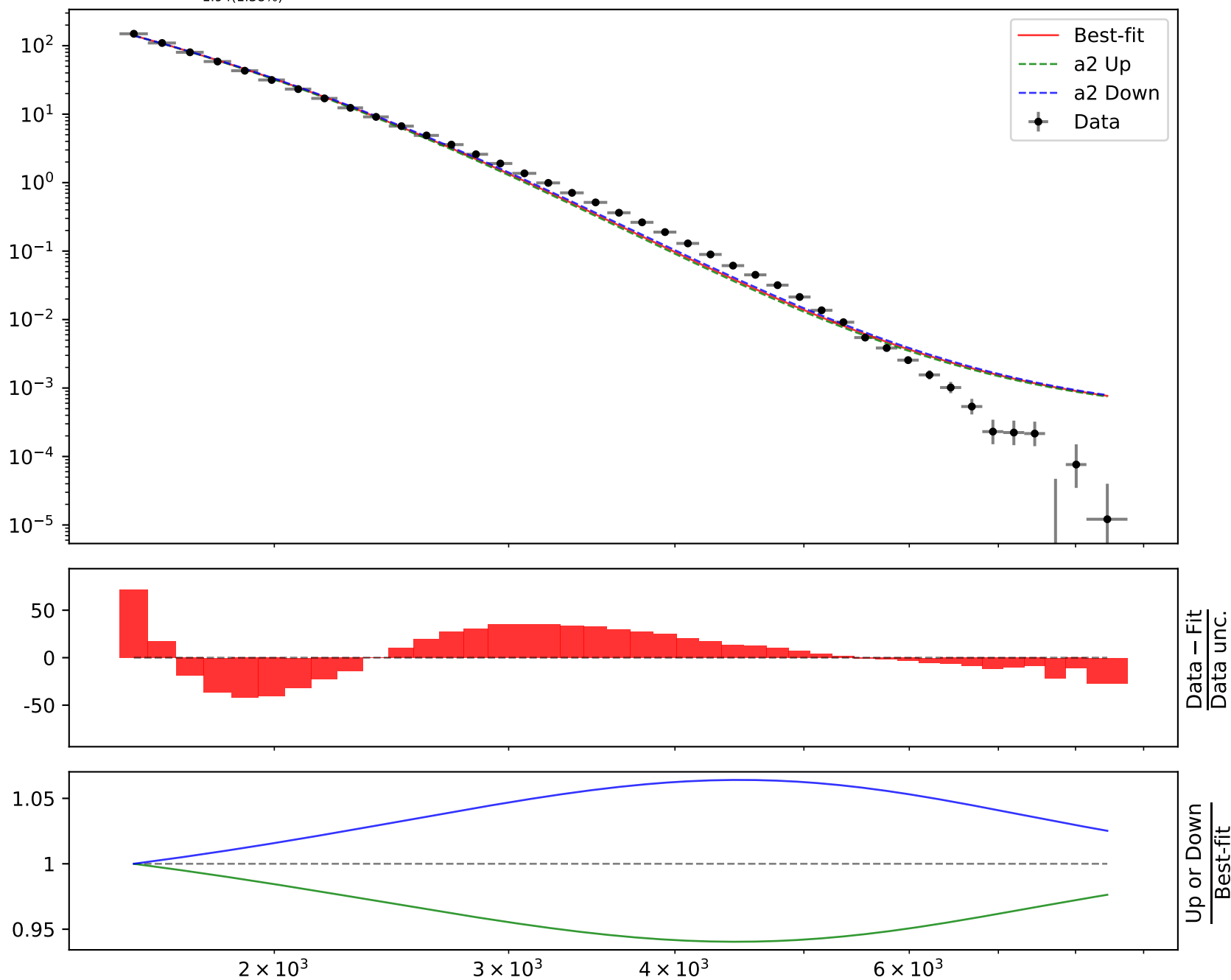
**Candidate #6** $\chi^2/\text{NDF} = 11950.0/40$ , p-value = 0.0, RMSE = 0.6705

Candidate function #5

$$1.0*(a1**\tanh(a2*((x0 - 1568.5) * 0.000145275))*a3)$$

$$a1 = 2.91e-06, \quad a2 = 1.83834^{+0.0199(1.08\%)}_{-0.0199(1.08\%)},$$

$$a3 = 140.718^{+1.94(1.38\%)}_{-1.94(1.38\%)}$$

**Candidate #5** $\chi^2/\text{NDF} = 25930.0/40$ , p-value = 0.0, RMSE = 1.537

$$1.0*(a1**\tanh(a2*((x0 - 1568.5) * 0.000145275))*a3)$$

$$a1 = 2.91e-06, \quad a2 = 1.83834^{+0.0199(1.08\%)}_{-0.0199(1.08\%)},$$

$$a3 = 140.718^{+1.94(1.38\%)}_{-1.94(1.38\%)}$$

**Candidate #5**

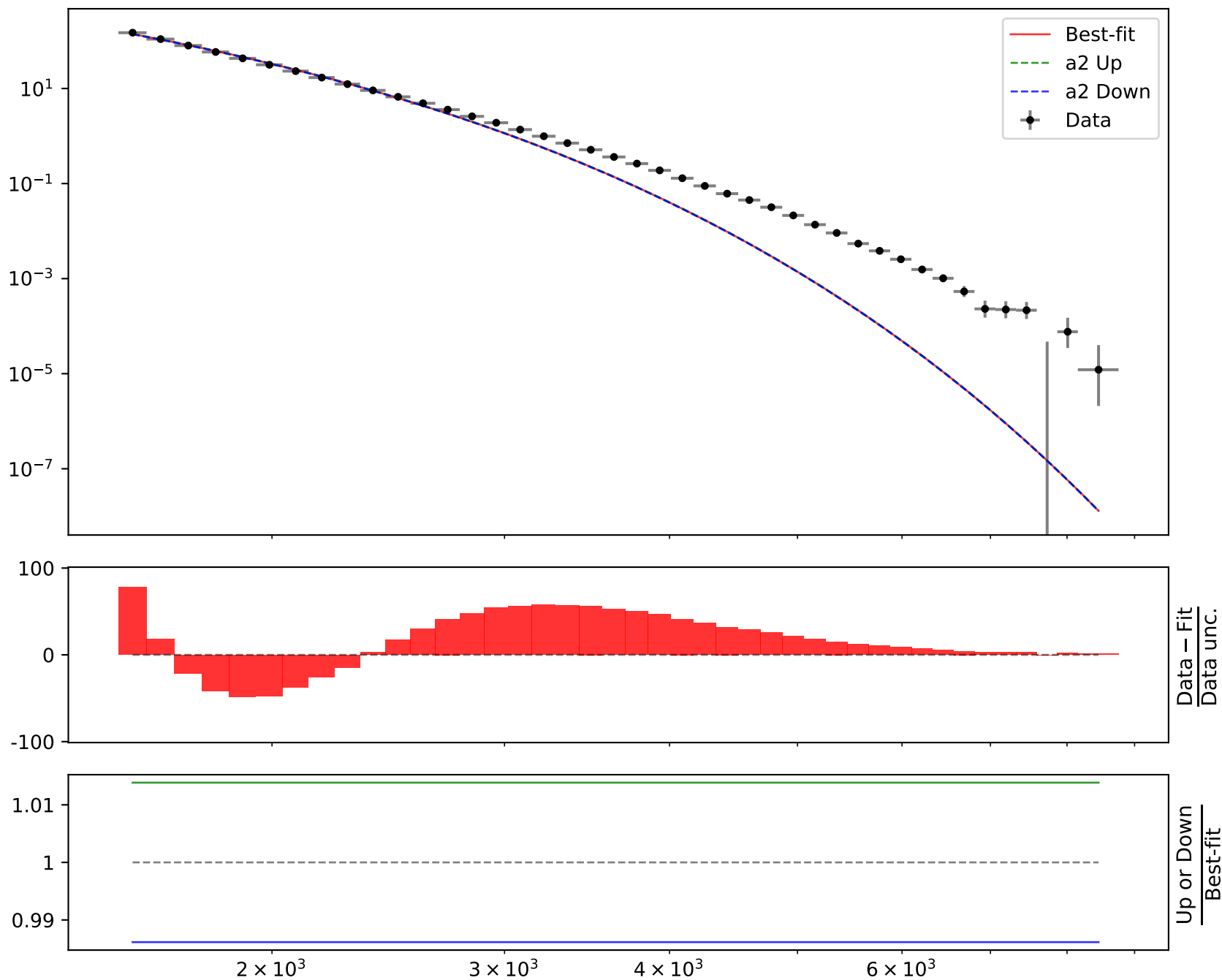
$$\chi^2/\text{NDF} = 25930.0/40, \quad p\text{-value} = 0.0, \quad \text{RMSE} = 1.537$$



Candidate function #4

$$1.0 * (a1 * ((x0 - 1568.5) * 0.000145275) * a2)$$

$$a1 = 9.31e-11, \quad a2 = 140.048^{+1.94(1.39\%)}_{-1.94(1.39\%)}$$

**Candidate #4** $\chi^2/\text{NDF} = 51140.0/41$ , p-value = 0.0, RMSE = 1.691

Candidate function #3

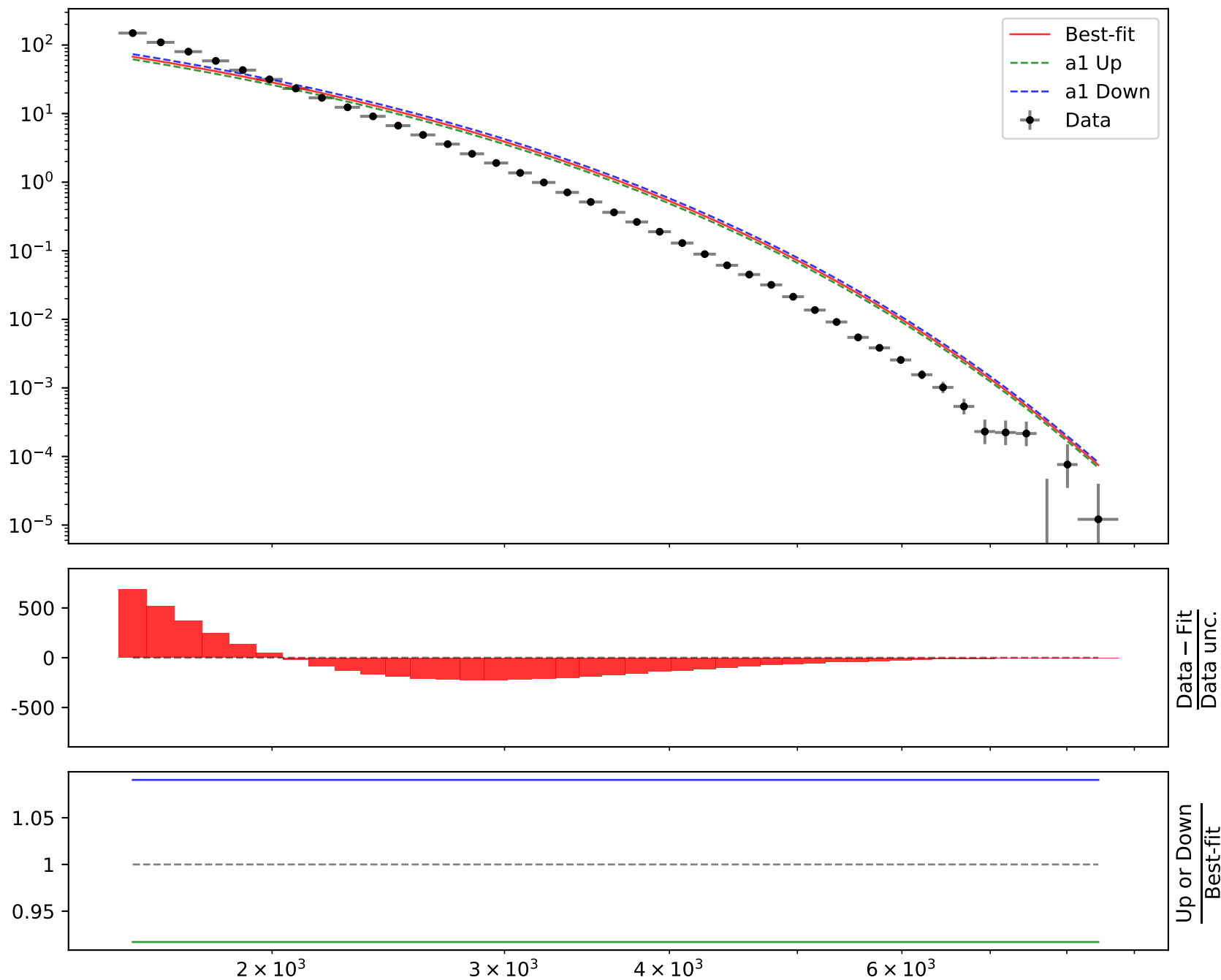


$$1.0*(a2** (a1 + ((x0 - 1568.5) * 0.000145275)))$$

**a1 =  $-0.307176^{+0.00632(2.06\%)}_{-0.00632(2.06\%)}$ ,  $a2 = 1.11e-06$**

**Candidate #3**

$\chi^2/\text{NDF} = 1543000.0/41$ , p-value = 0.0, RMSE = 16.04

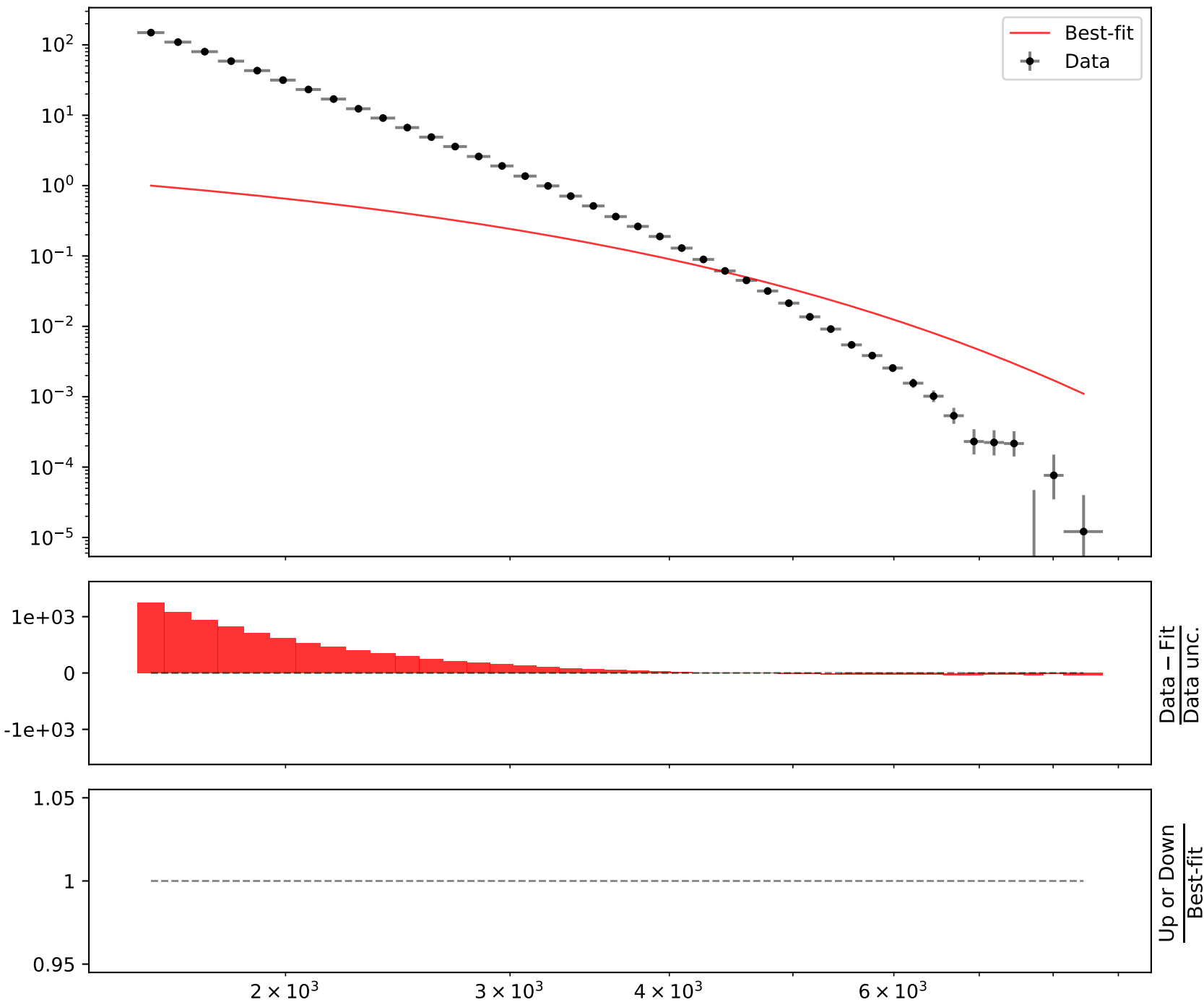


Candidate function #2

$$1.0*(a1**((x0 - 1568.5) * 0.000145275))$$

$$a1 = 0.0011$$

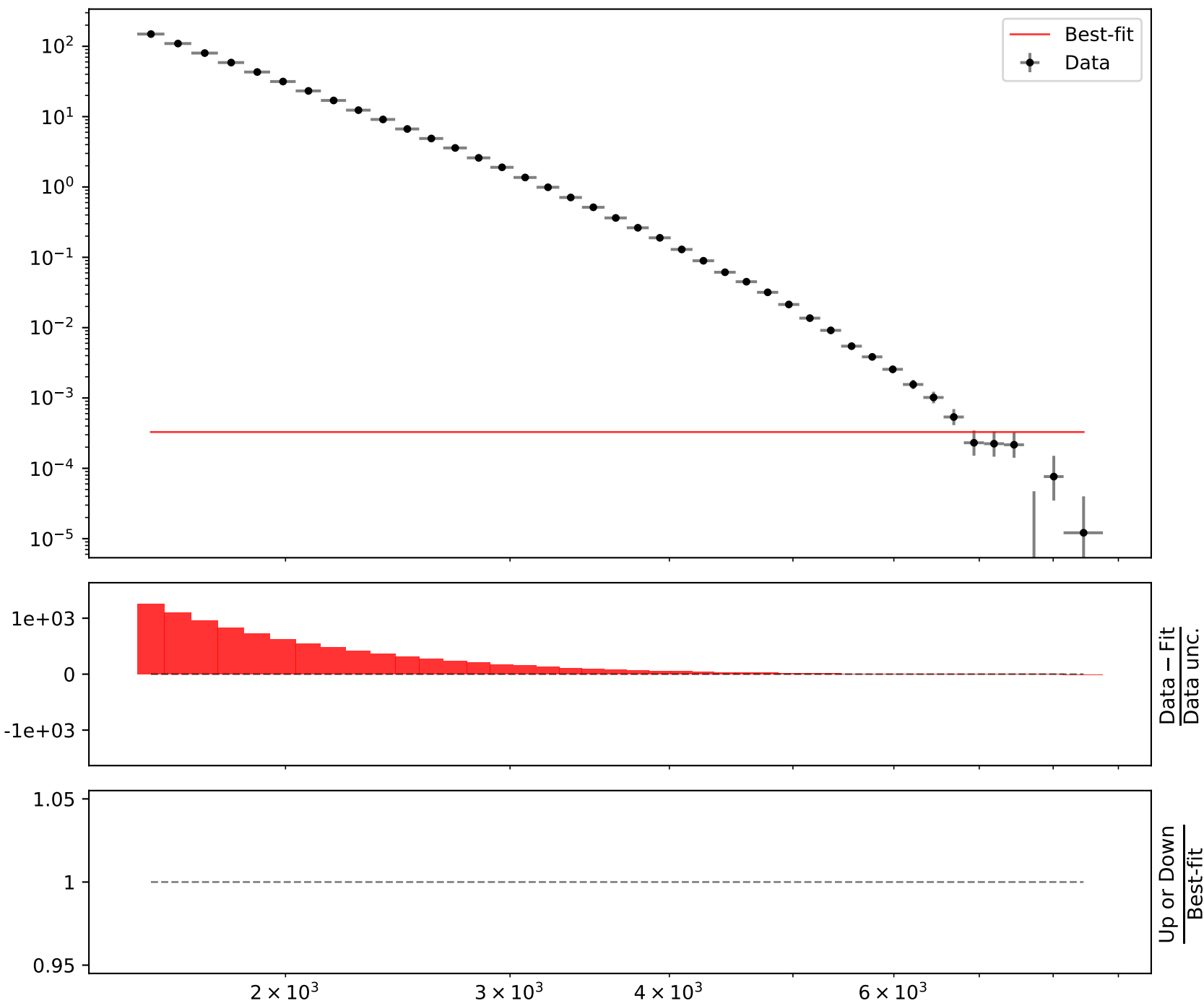
$$\chi^2/\text{NDF} = 6310000.0/42, \text{ p-value} = 0.0, \text{ RMSE} = 33.53$$



Candidate function #1

1.0\*(a1)

a1 = 0.000328

 $\chi^2/\text{NDF} = 6557000.0/42$ , p-value = 0.0, RMSE = 33.85

Candidate function #0

1.0\*(a1)

a1 = 0.187

 $\chi^2/\text{NDF} = 85650000.0/42$ , p-value = 0.0, RMSE = 33.78