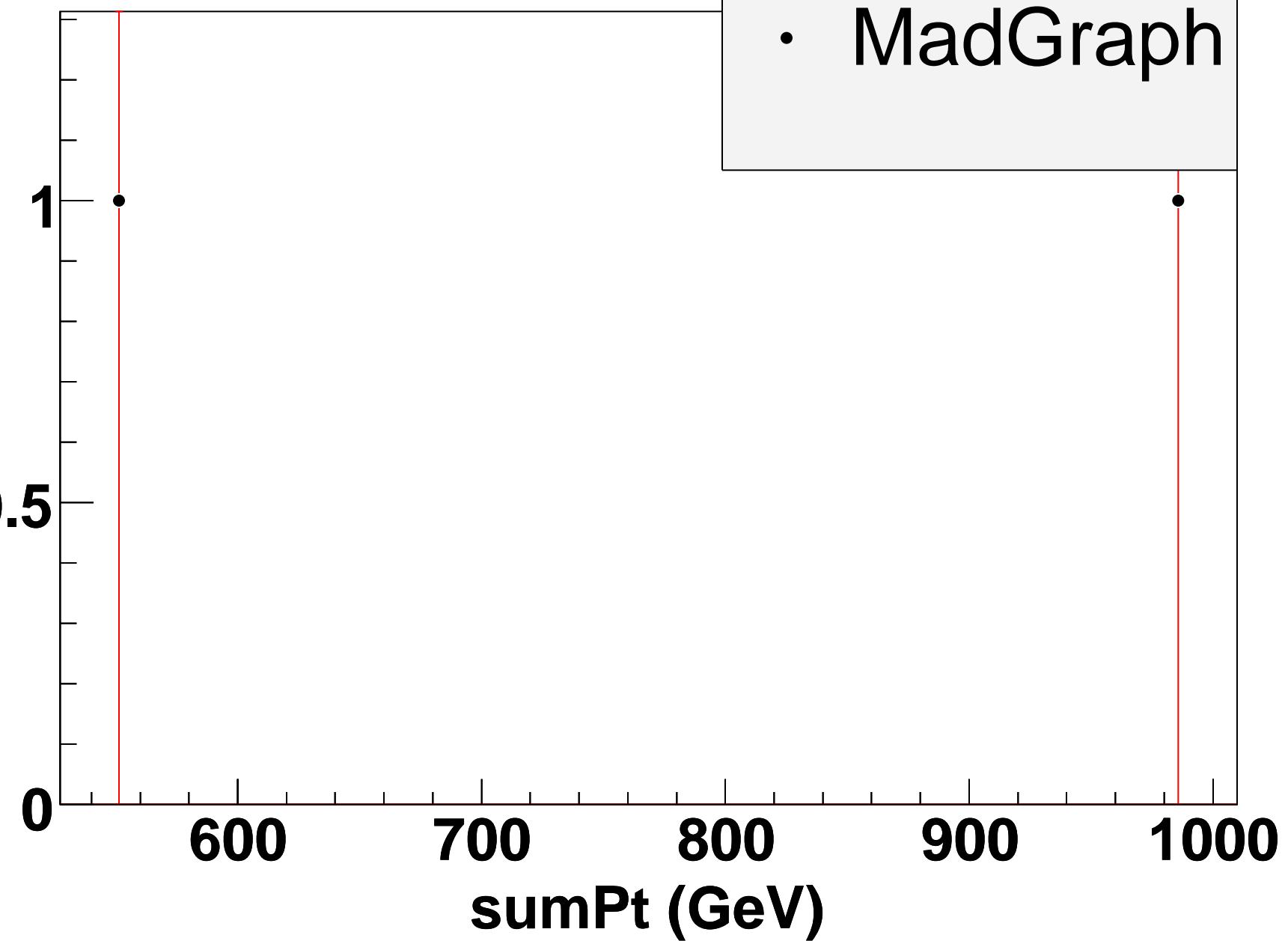


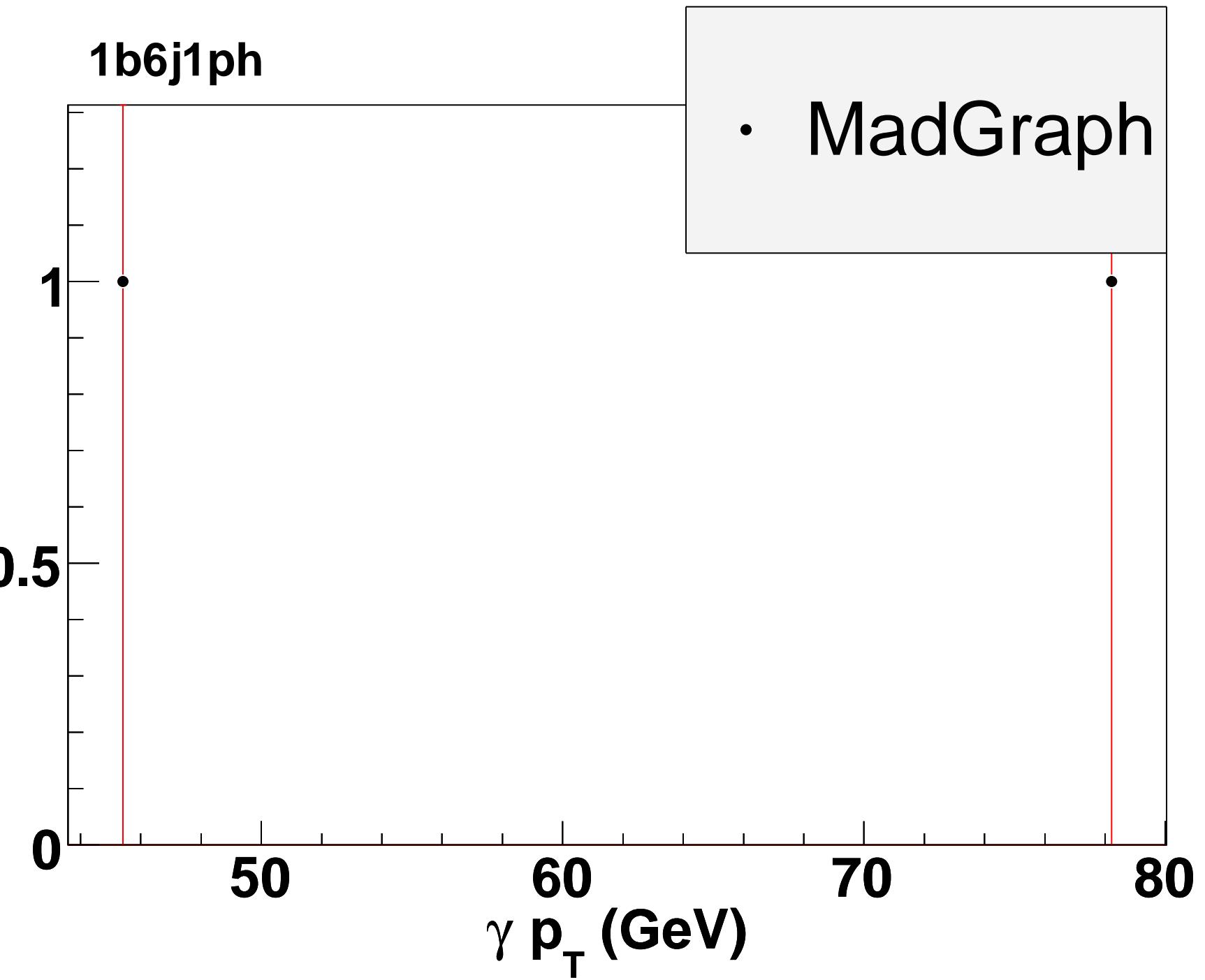
**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**



• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

150

200

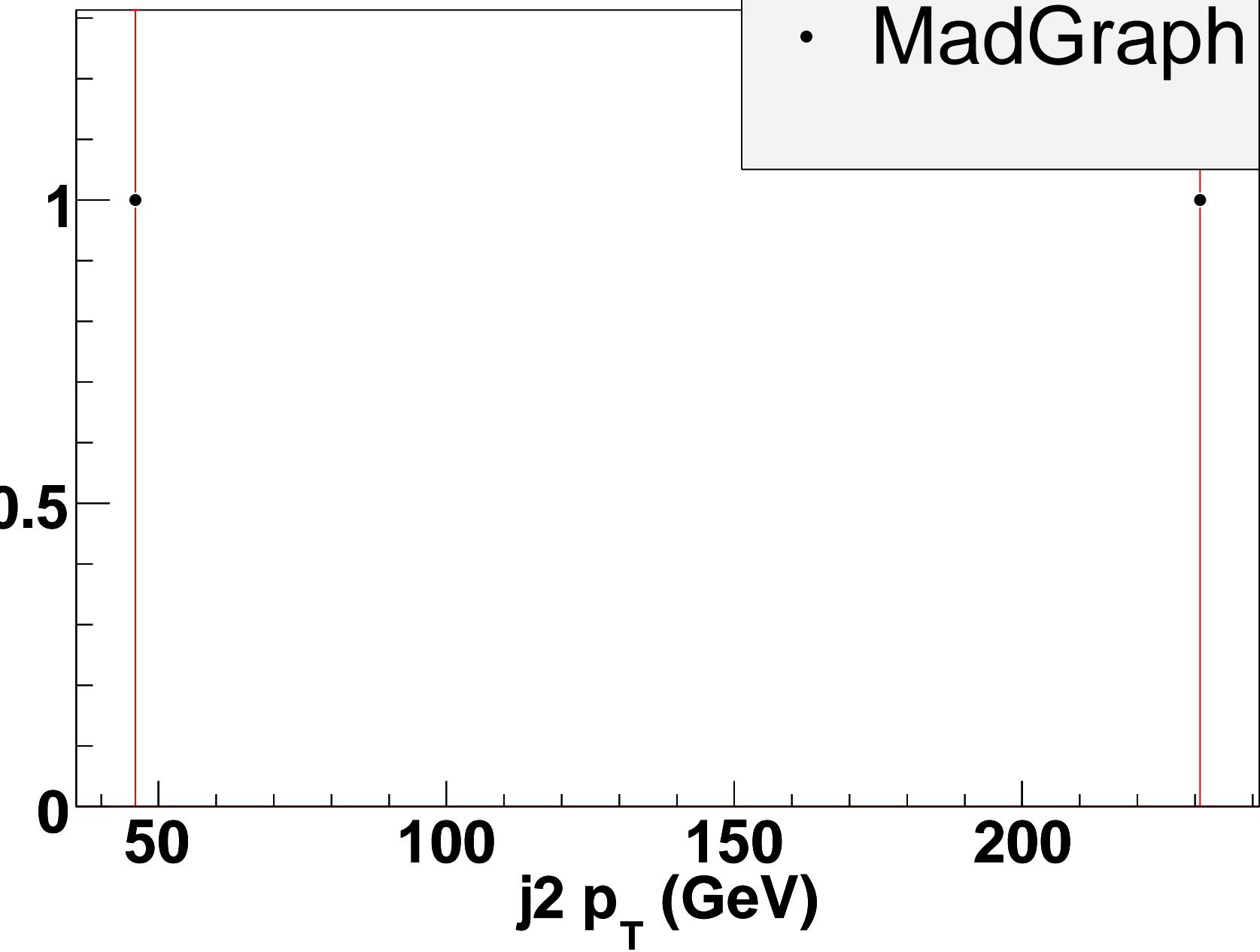
250

**j1  $p_T$  (GeV)**

• MadGraph

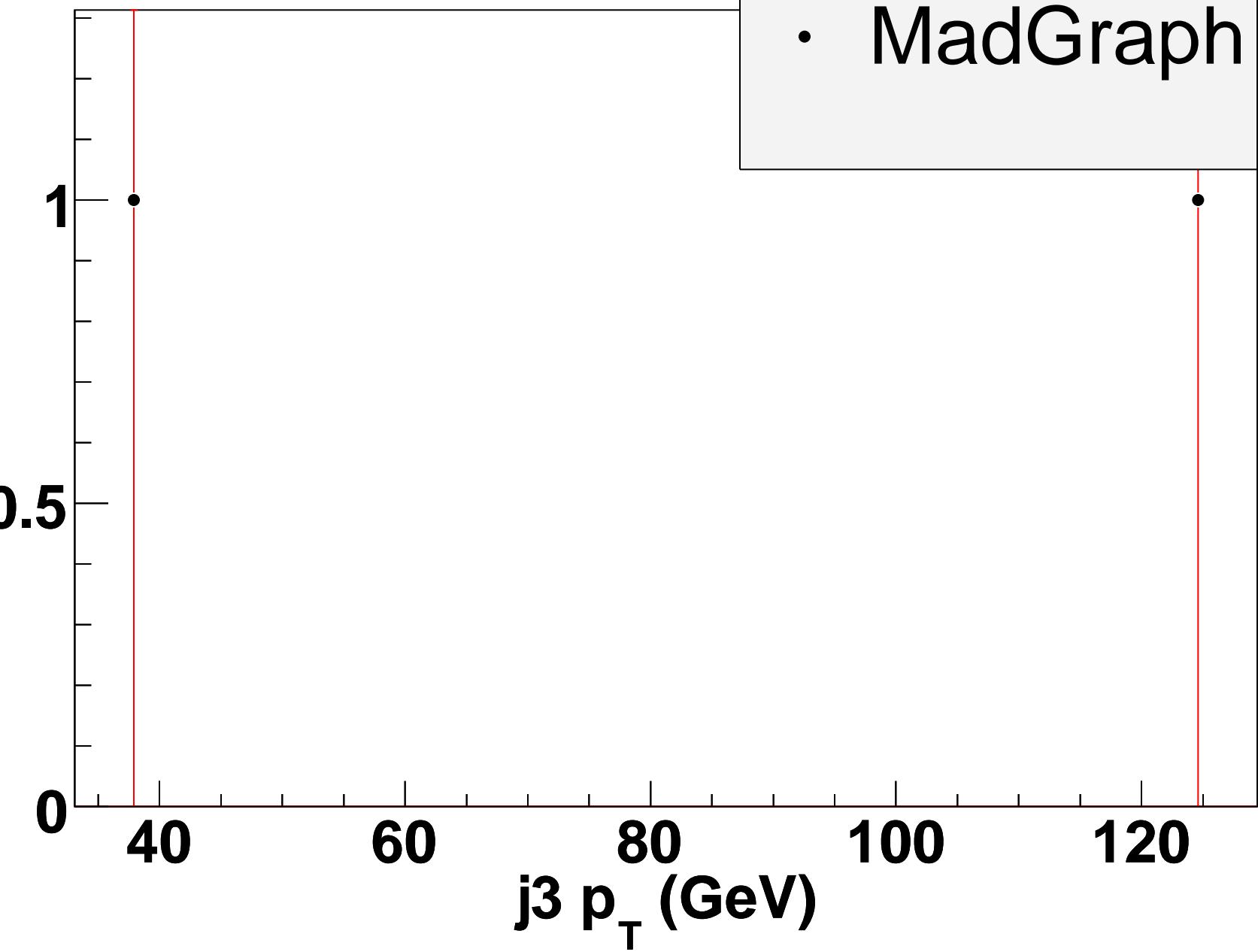
**Number of Events**

**1b6j1ph**



**Number of Events**

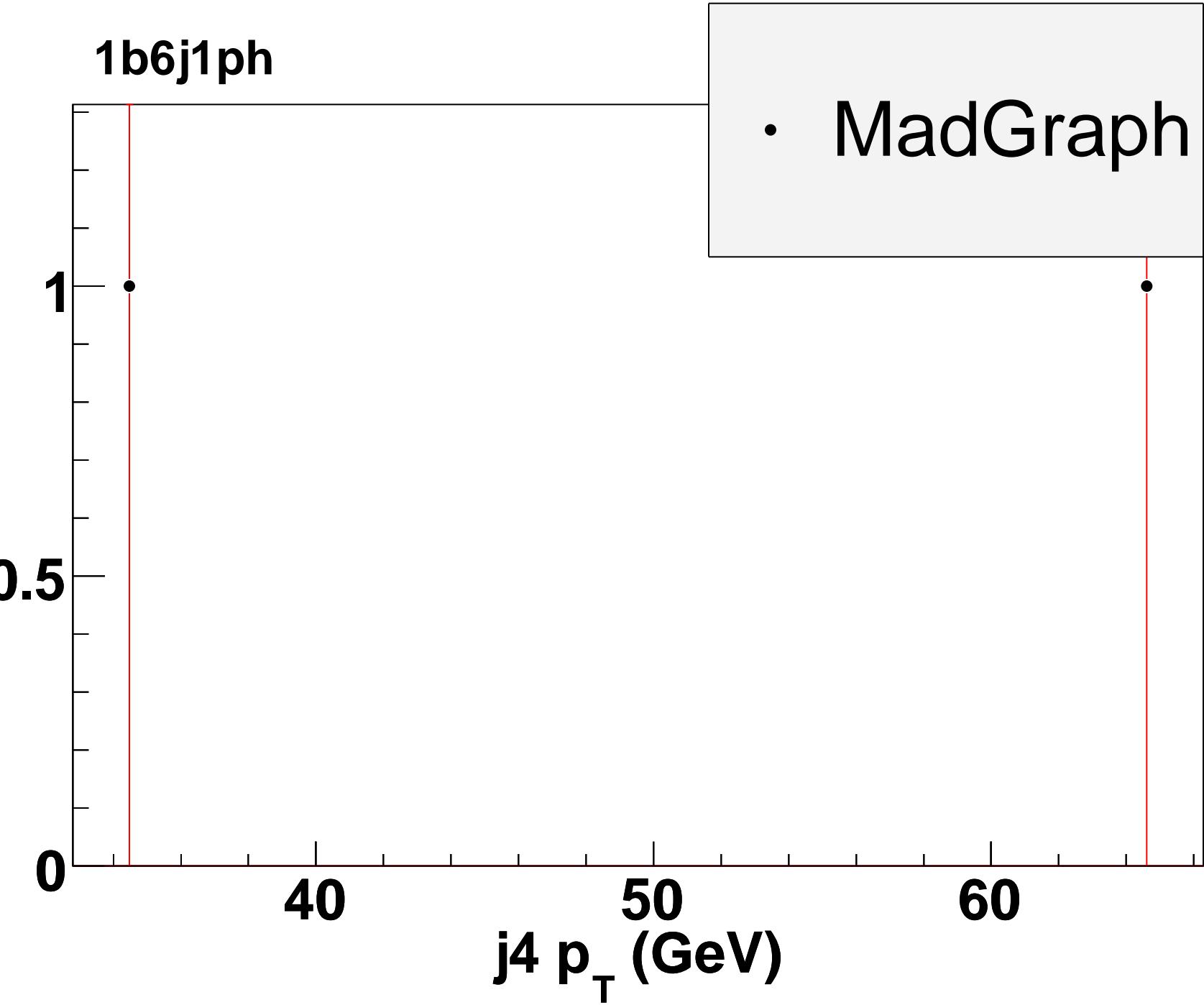
**1b6j1ph**



• MadGraph

**Number of Events**

**1b6j1ph**



• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

35

40

45

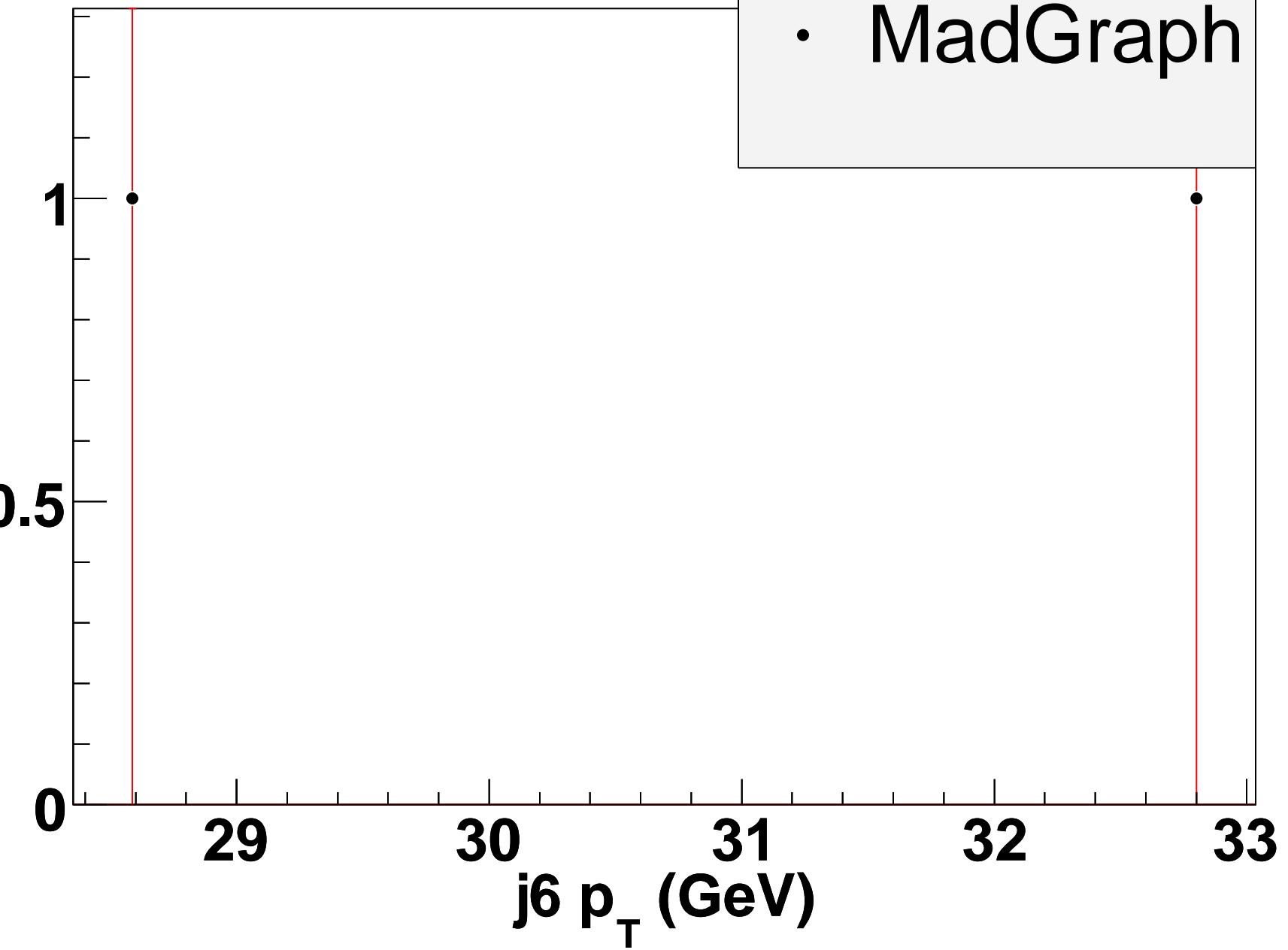
50

**j5  $p_T$  (GeV)**

• MadGraph

**Number of Events**

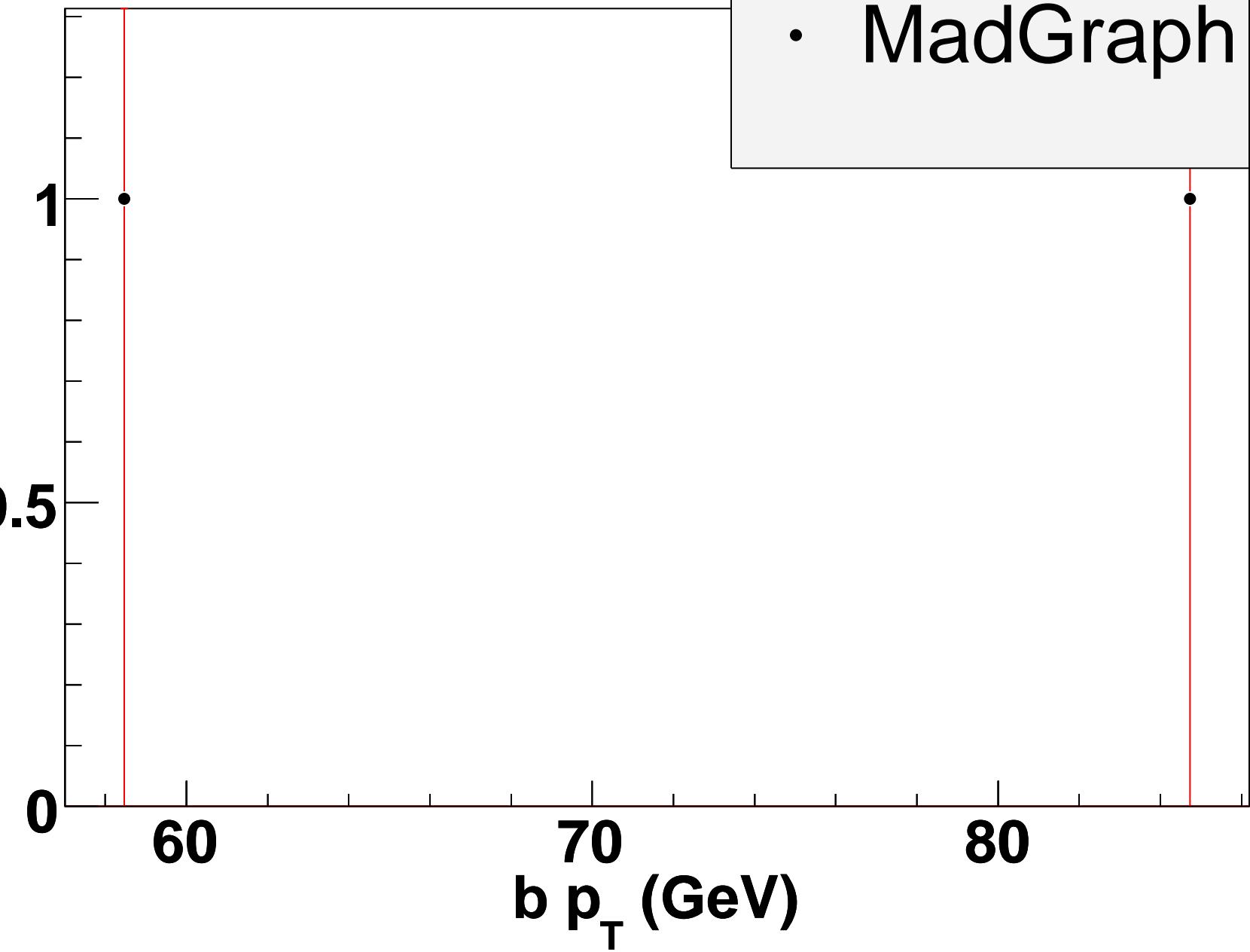
**1b6j1ph**



• MadGraph

**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**

1

0.5

0

13

14

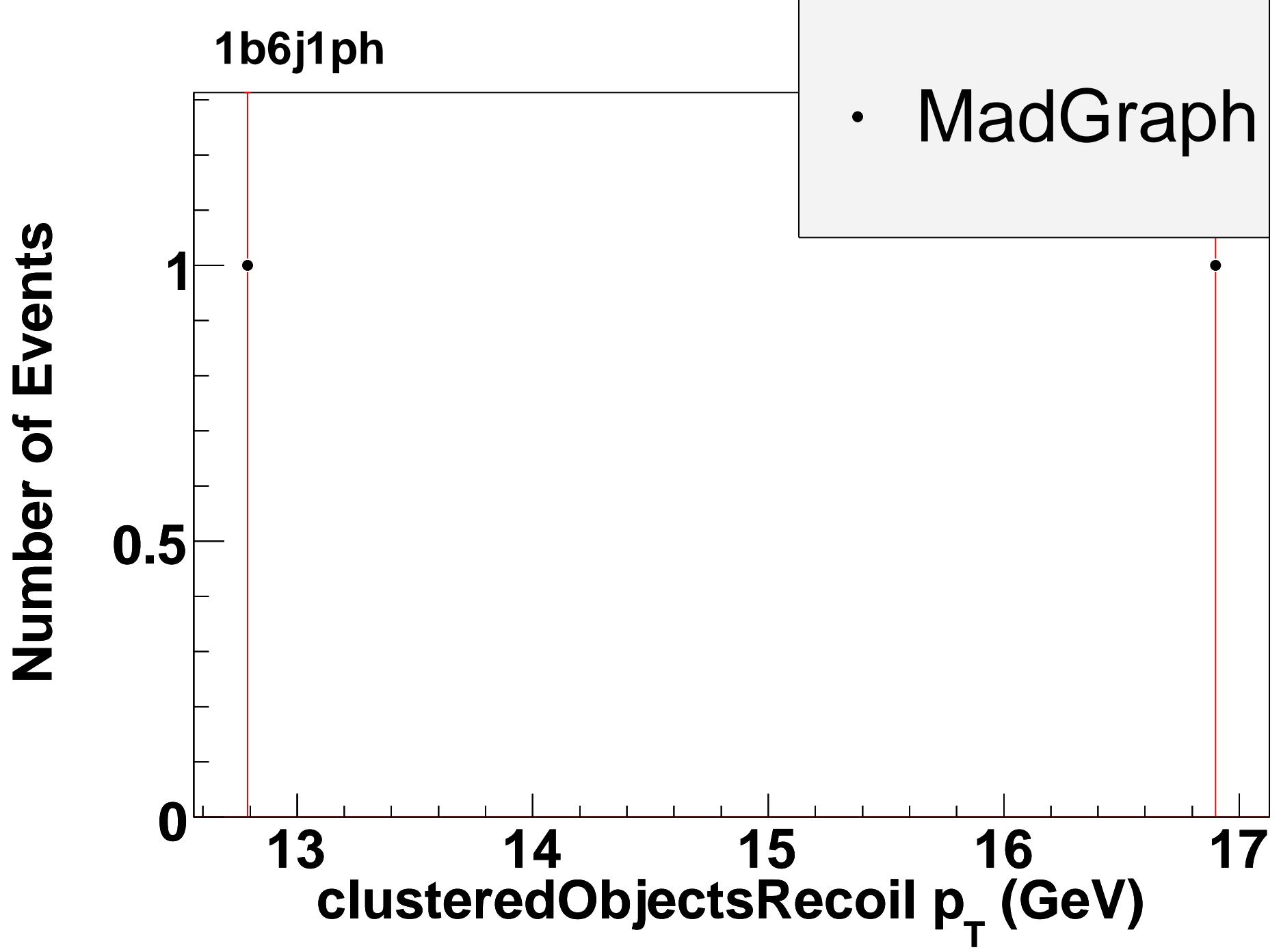
15

16

17

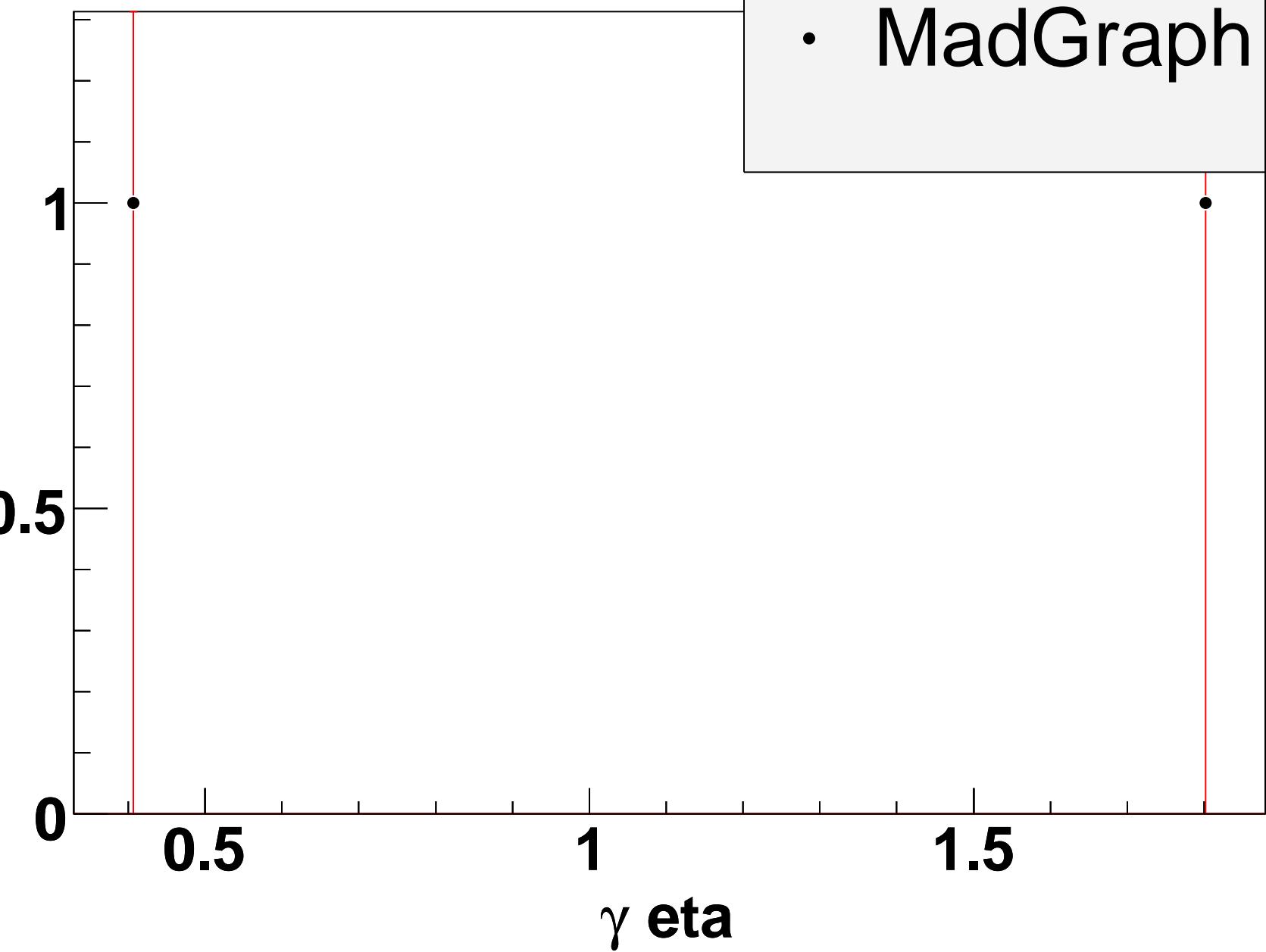
$p_T$  (GeV)

• MadGraph



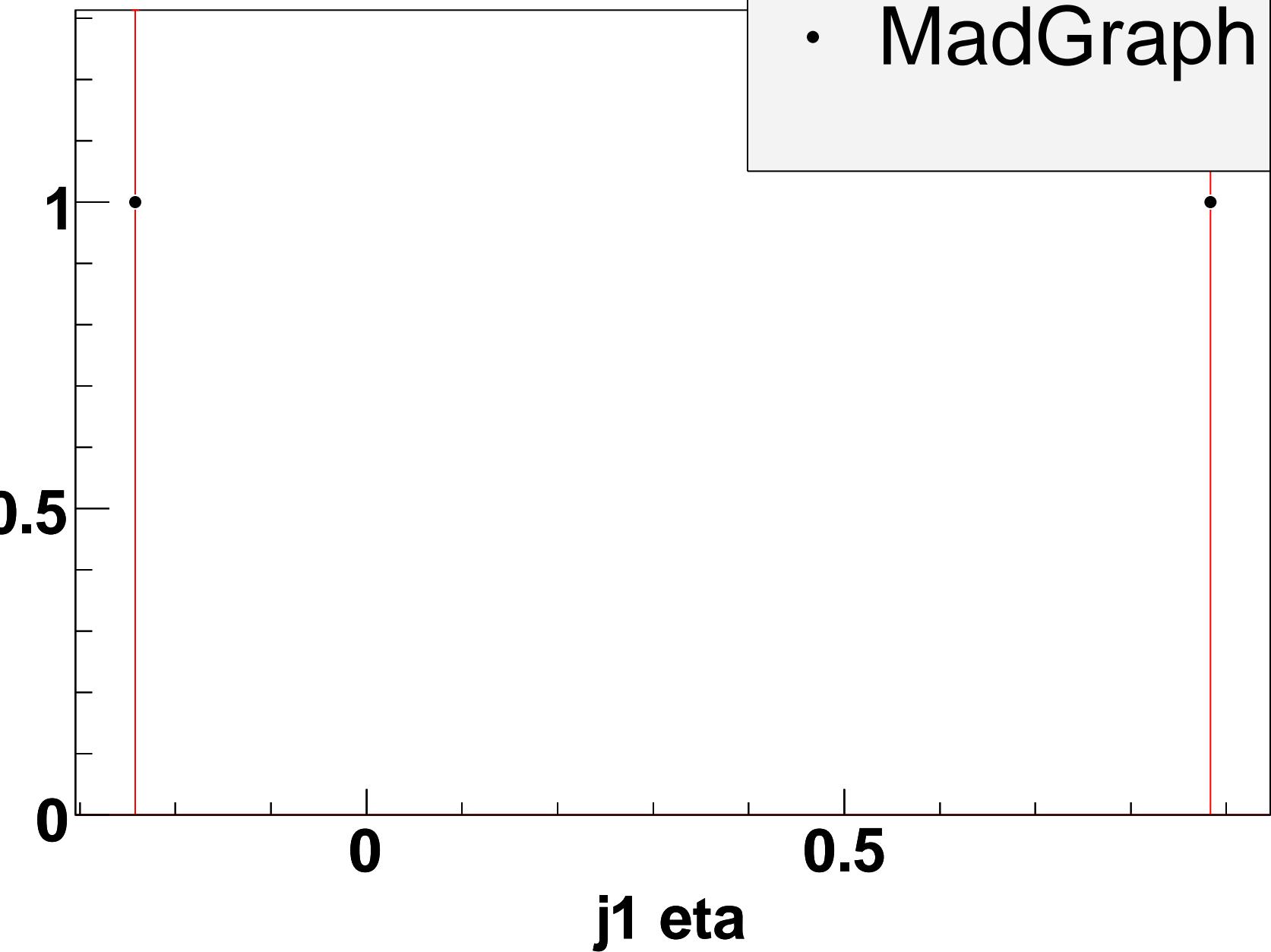
**Number of Events**

**1b6j1ph**



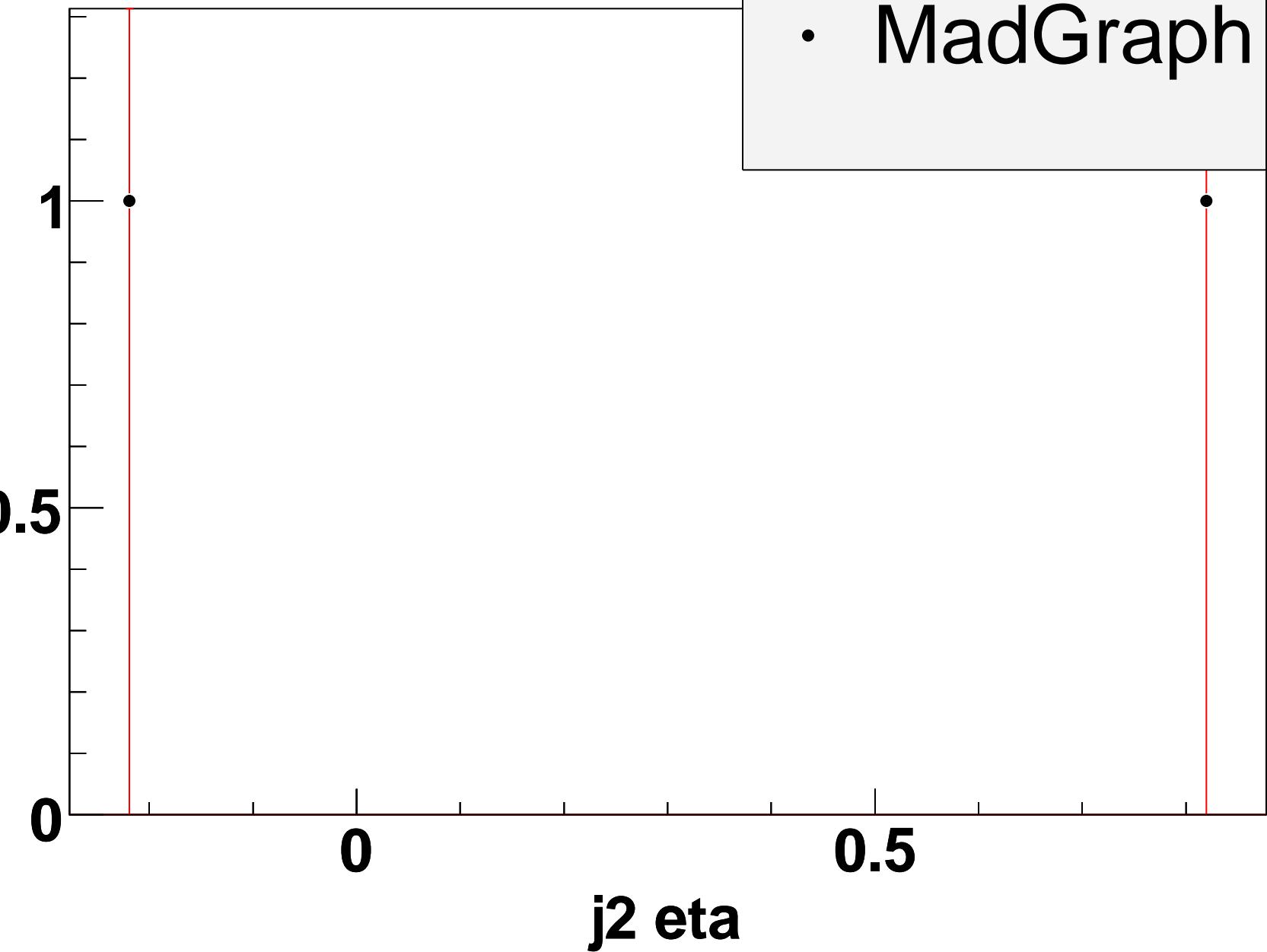
**Number of Events**

**1b6j1ph**



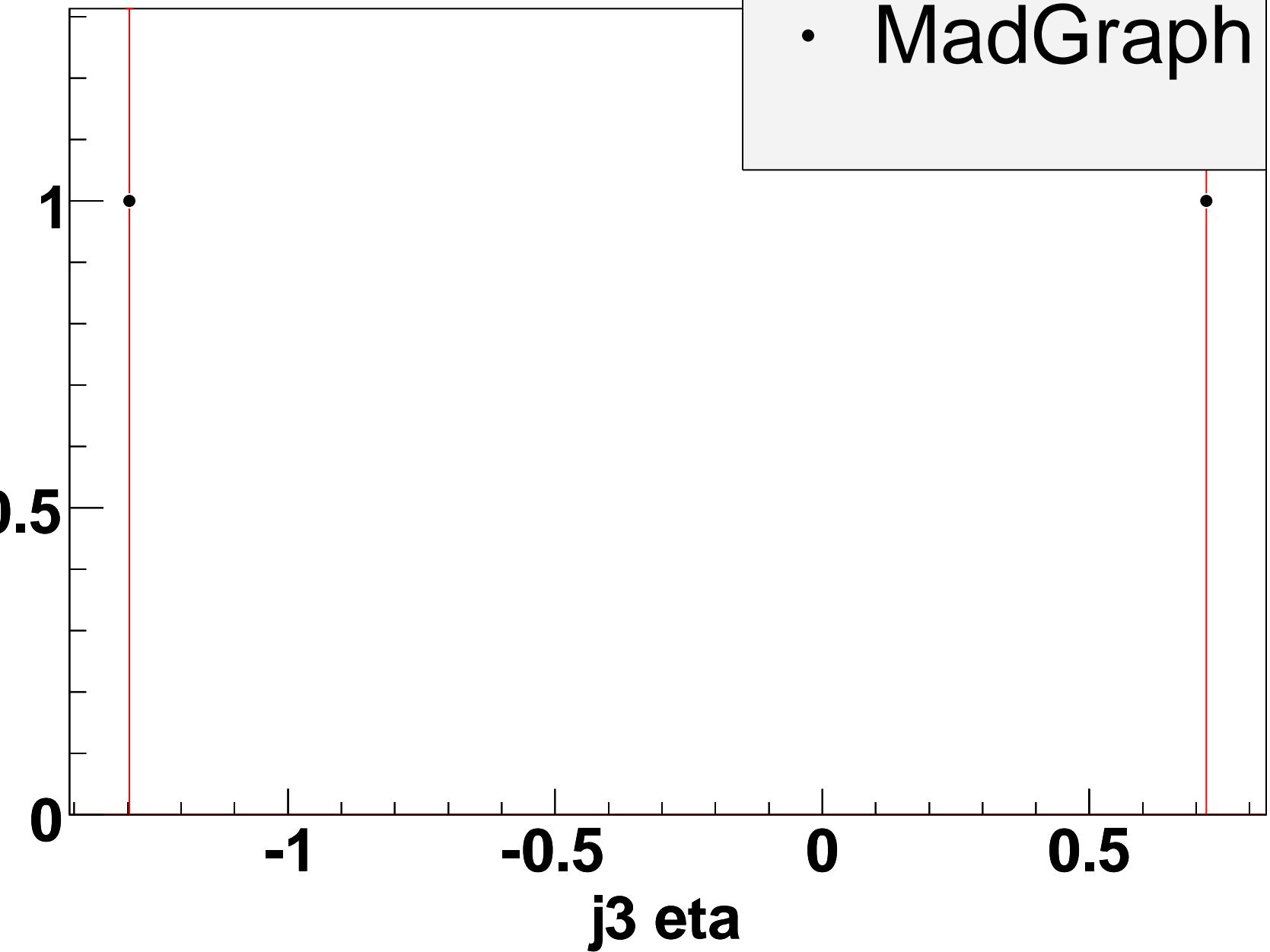
**Number of Events**

**1b6j1ph**



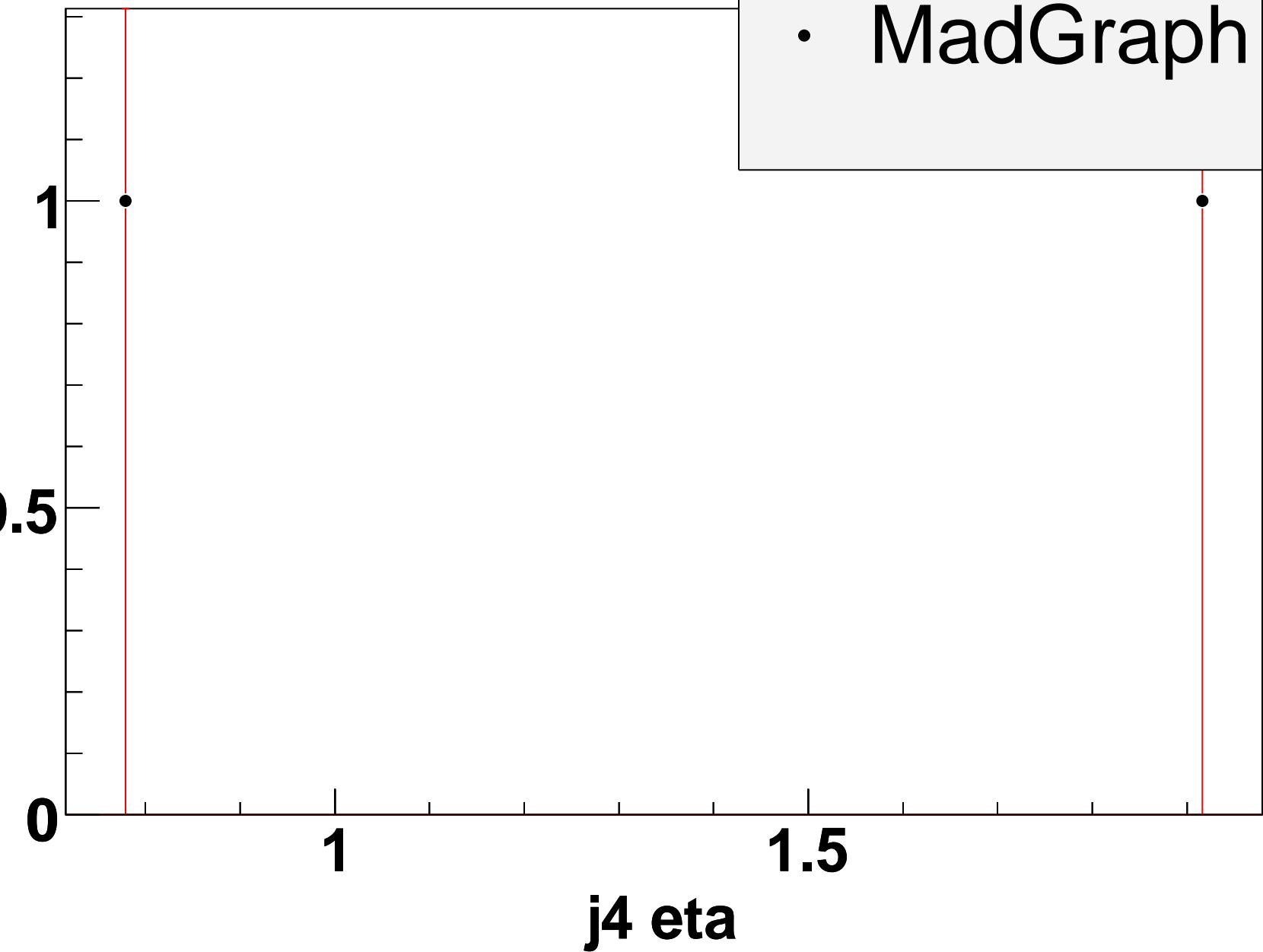
**Number of Events**

**1b6j1ph**



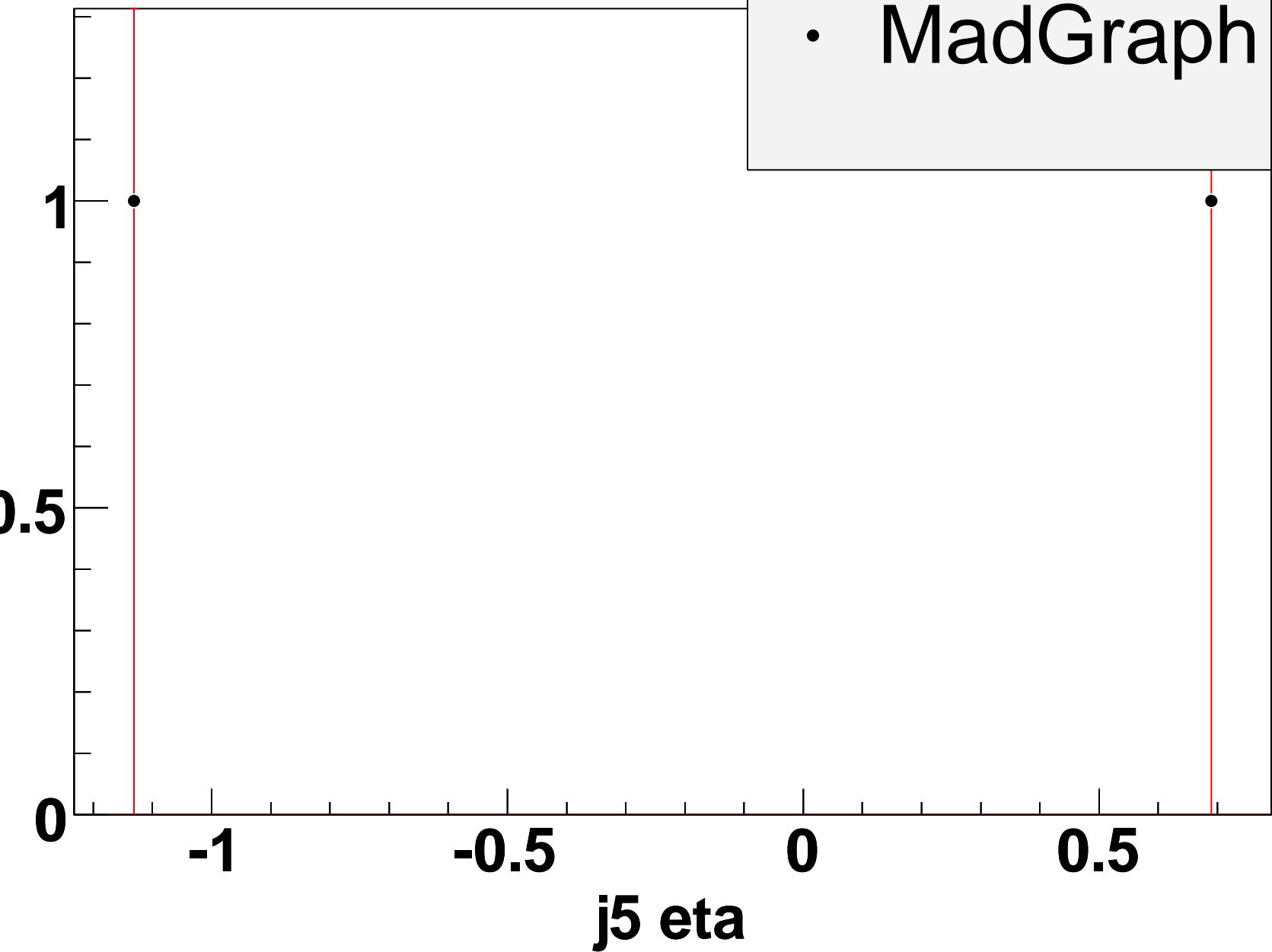
**Number of Events**

**1b6j1ph**



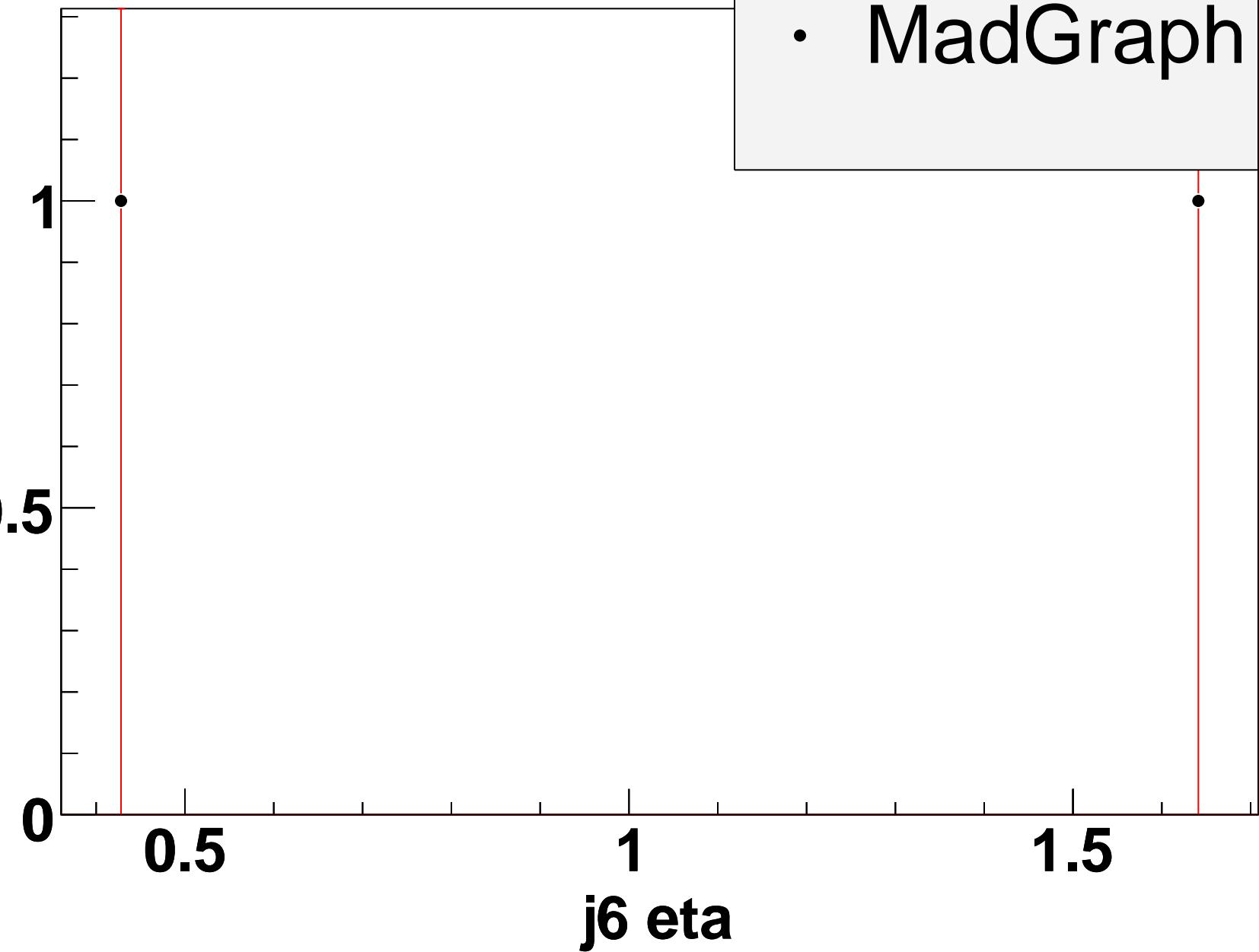
**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**0**

**1**

**2**

**3**

**b eta**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

0.2 0.3 0.4 0.5 0.6

$\Delta\phi(\gamma, j1)$  (radians)

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

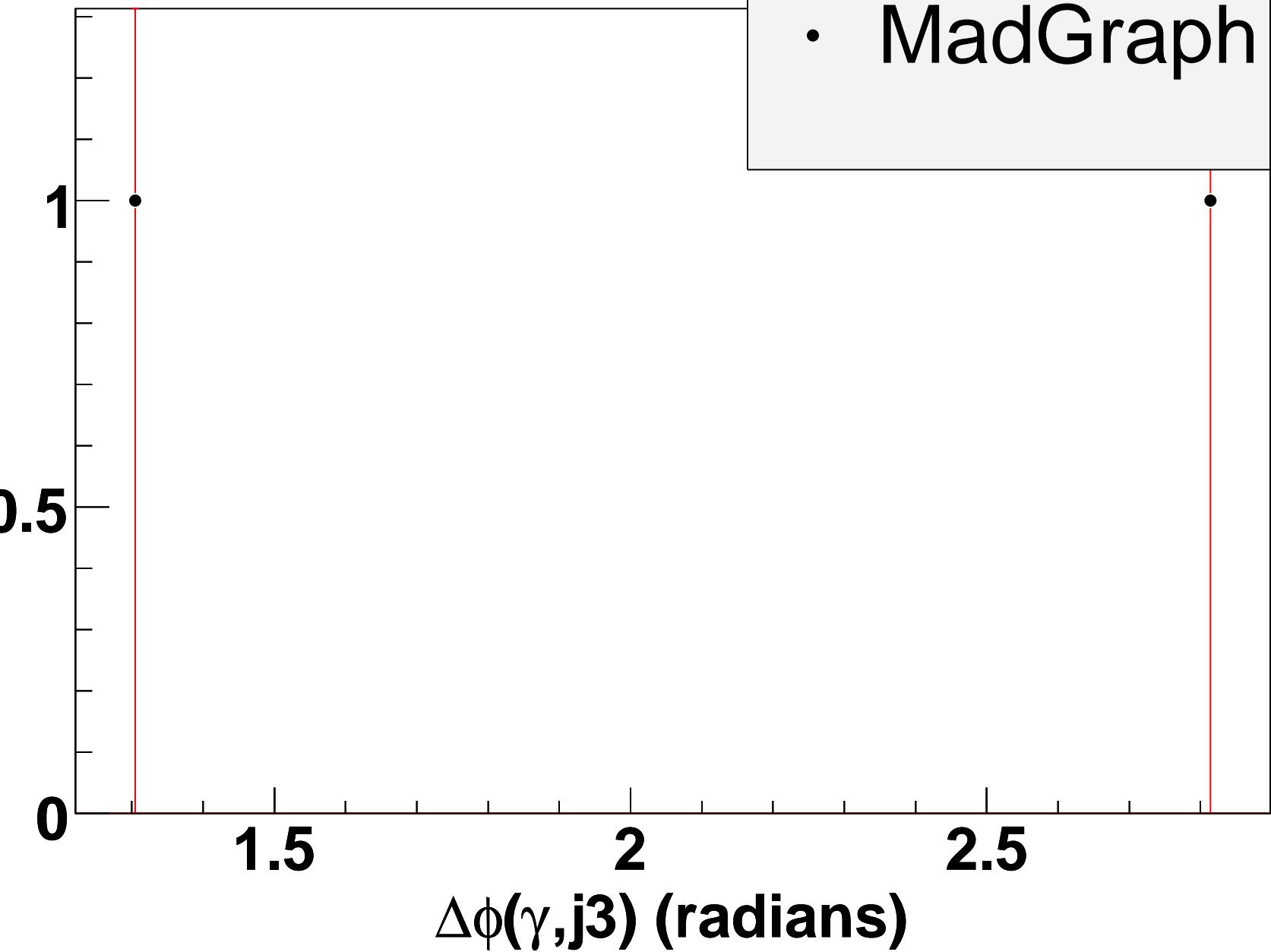
2      2.5

$\Delta\phi(\gamma, j2)$  (radians)

• MadGraph

**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**1.99**

**2**

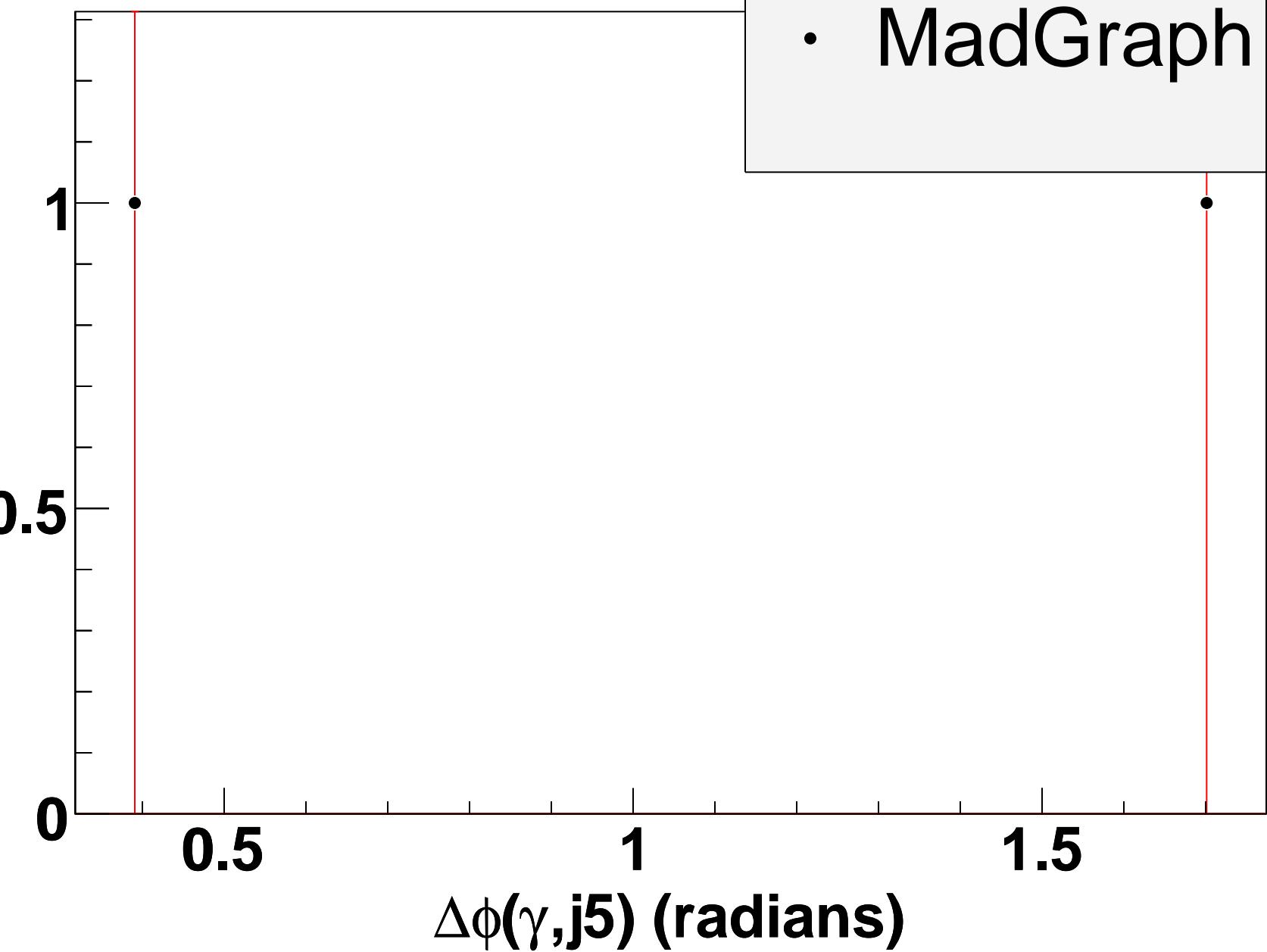
**2.01**

**$\Delta\phi(\gamma, j4)$  (radians)**

• MadGraph

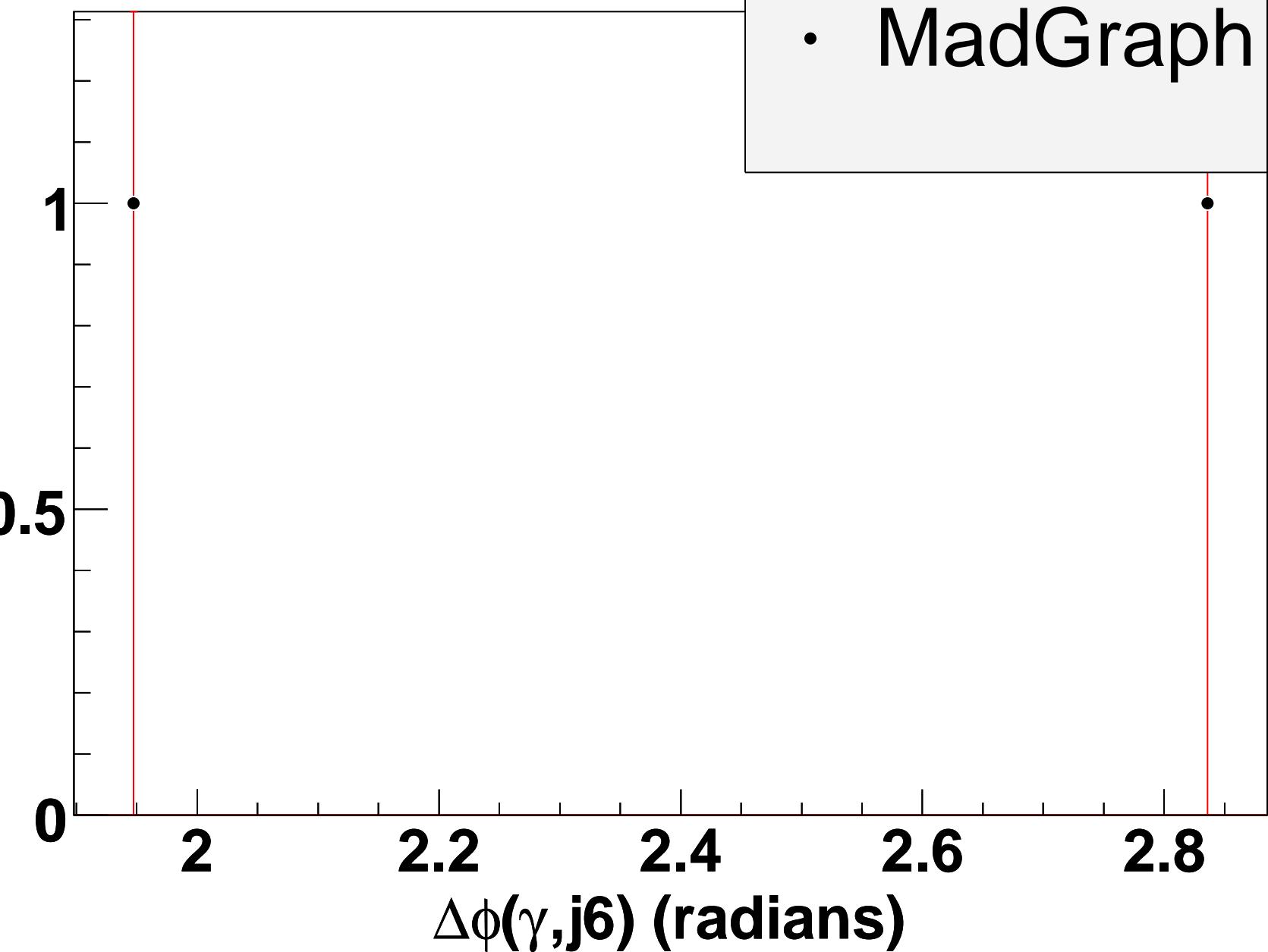
**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**2.4**

**2.5**

**2.6**

**$\Delta\phi(\gamma,b)$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

1.5

2

2.5

$\Delta\phi(j1,j2)$  (radians)

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

2

2.5

3

**$\Delta\phi(j1,j3)$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**1.4**

**1.5**

**1.6**

**1.7**

**1.8**

**$\Delta\phi(j1,j4)$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

0.6

0.8

1

**$\Delta\phi(j1,j5)$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**2.55**

**2.6**

**2.65**

**$\Delta\phi(j1,j6)$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

**2.85**

**2.9**

**2.95**

**$\Delta\phi(j1,b)$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**1.5**

**1.6**

**1.7**

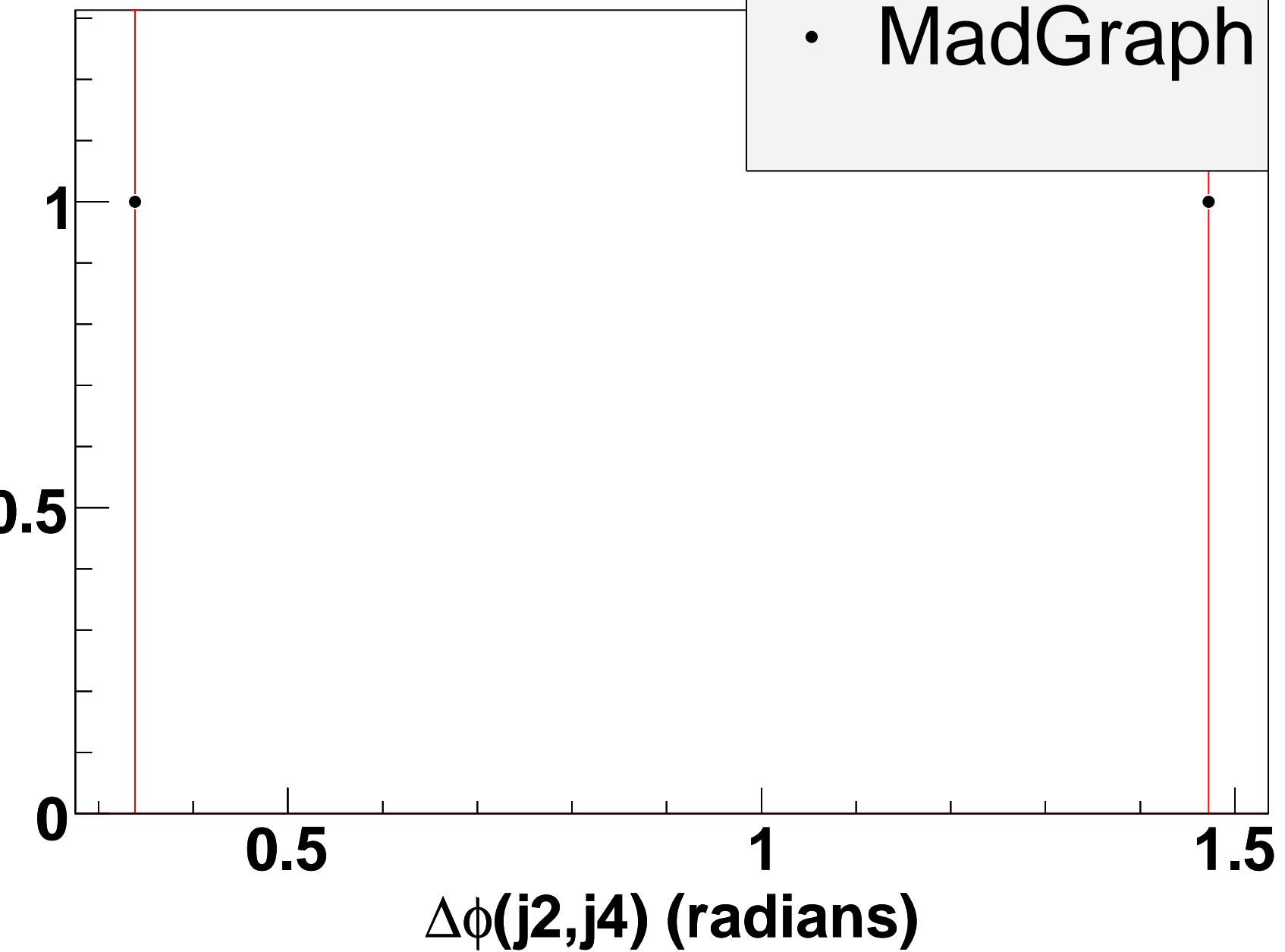
**1.8**

**$\Delta\phi(j2,j3)$  (radians)**

• MadGraph

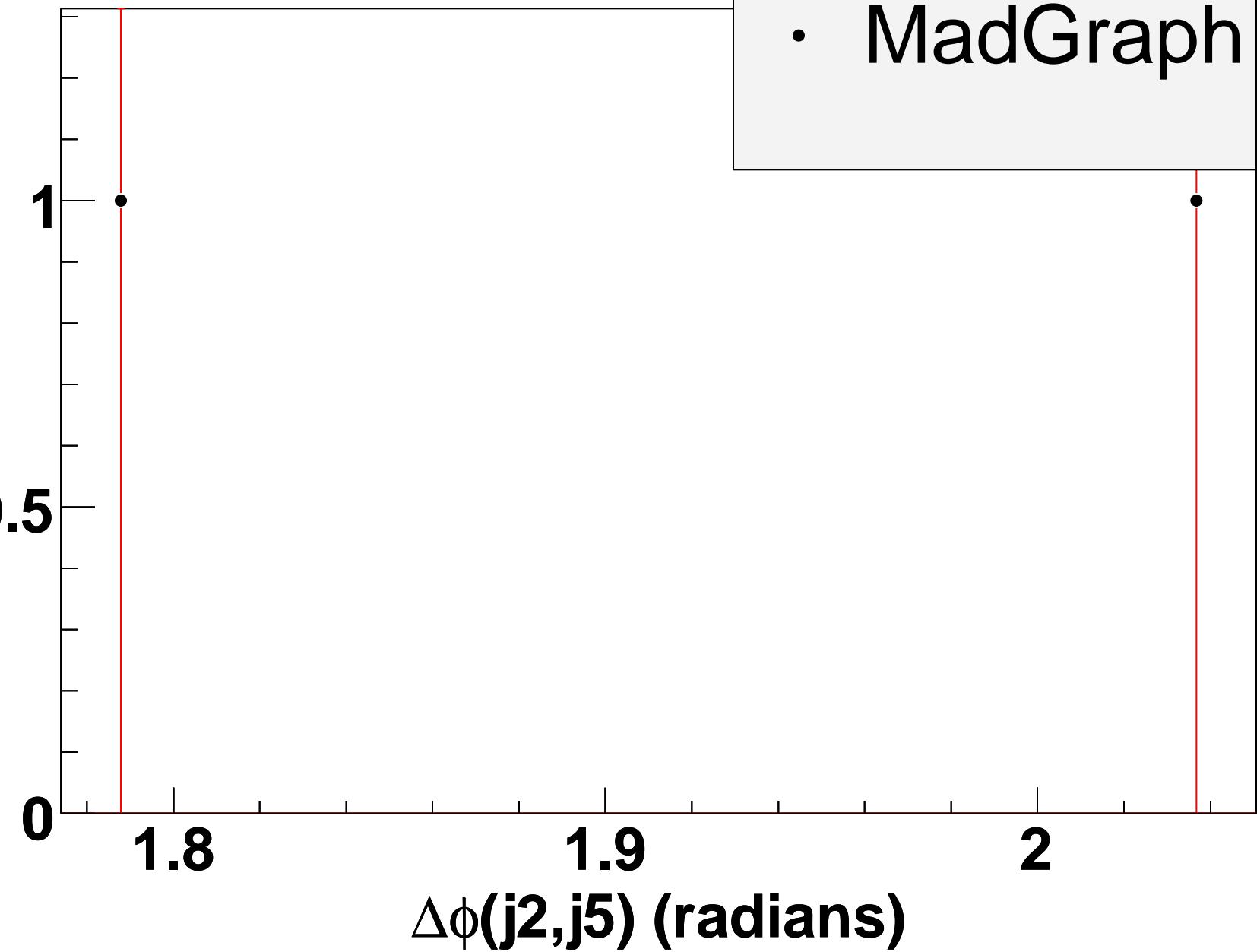
**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**

1

0.5

0

0.9

1

1.1

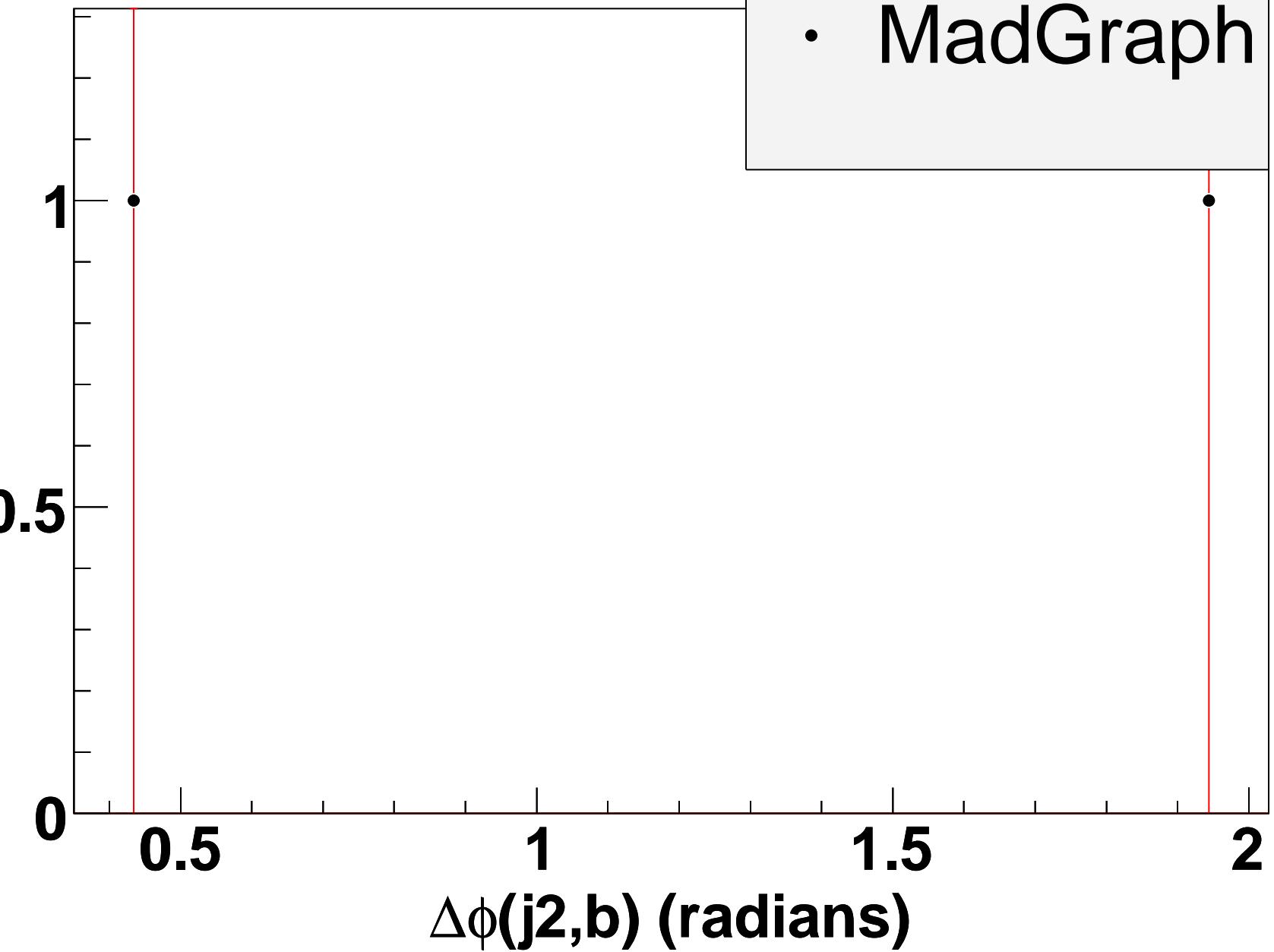
1.2

**$\Delta\phi(j2,j6)$  (radians)**

• MadGraph

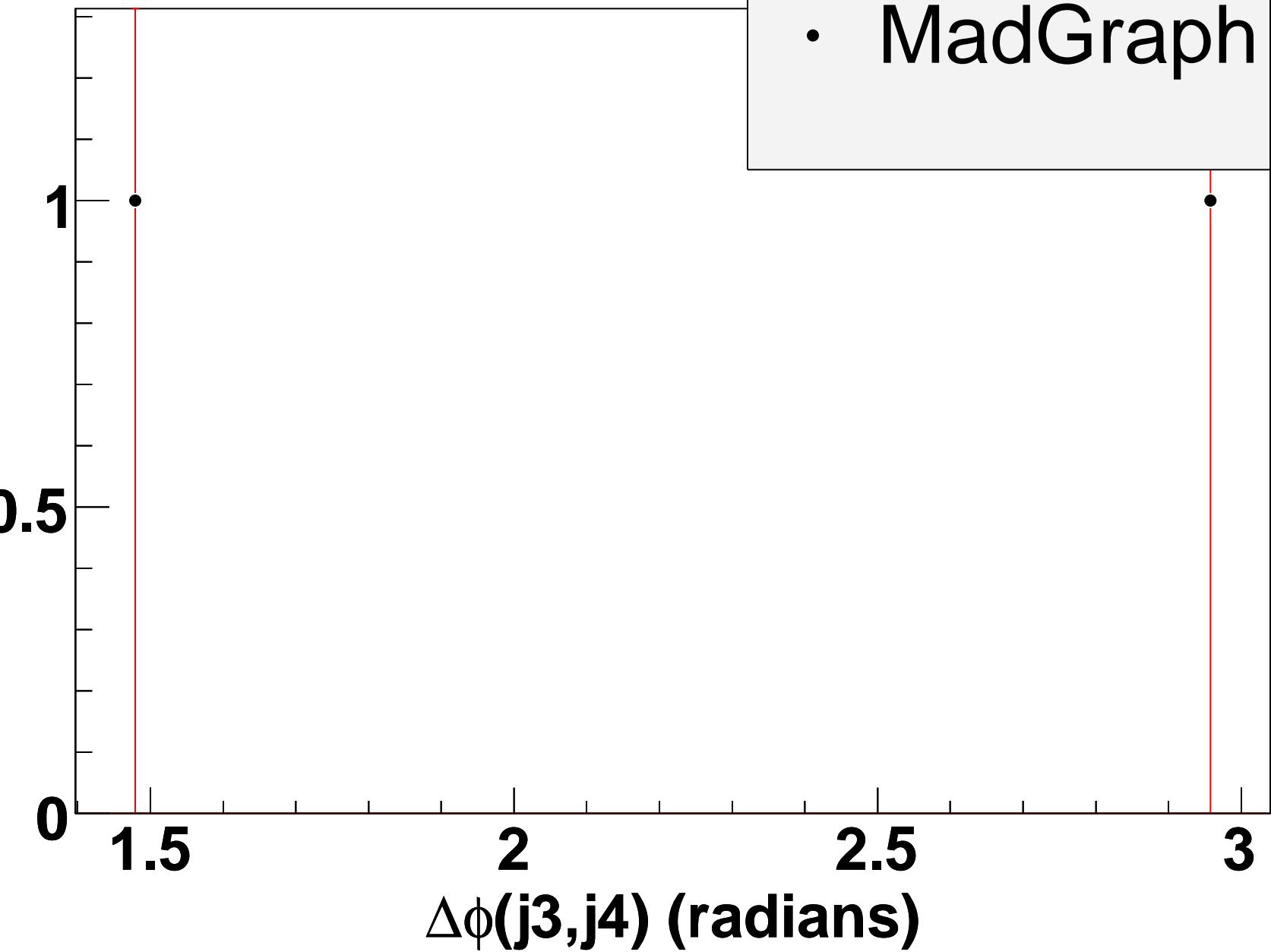
**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**

1  
0.5  
0

**2.6**

**2.8**

**3**

**$\Delta\phi(j3,j5)$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**$\Delta\phi(j3,j6)$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

0.5

1

$\Delta\phi(j3,b)$  (radians)

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

0.5

1

1.5

2

$\Delta\phi(j4,j5)$  (radians)

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

1

1.5

2

**$\Delta\phi(j4,j6)$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

1.7

1.8

1.9

$\Delta\phi(j4,b)$  (radians)

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

2.7      2.8      2.9      3

**$\Delta\phi(j5,j6)$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

**2.22**

**2.24**

**2.26**

**2.28**

**$\Delta\phi(j5,b)$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

0.4 0.5 0.6 0.7

$\Delta\phi(j6,b)$  (radians)

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

0.6

0.8

1

**$\min\Delta R(\gamma, j)$**

• MadGraph

**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**0.95**

**1**

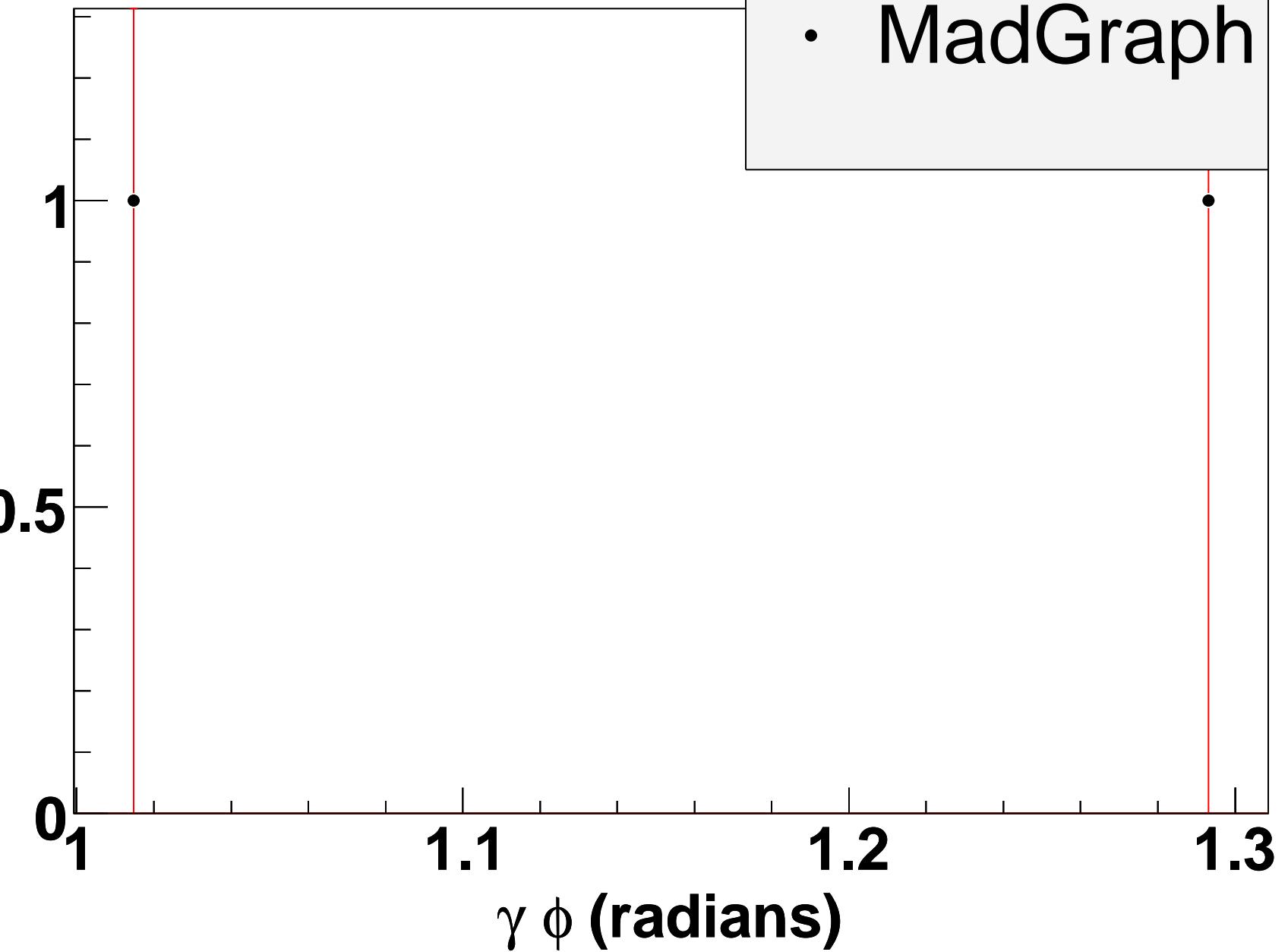
**1.05**

**$\min\Delta R(j,j)$**

• MadGraph

**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**

1  
0.5  
0

1.2

1.4

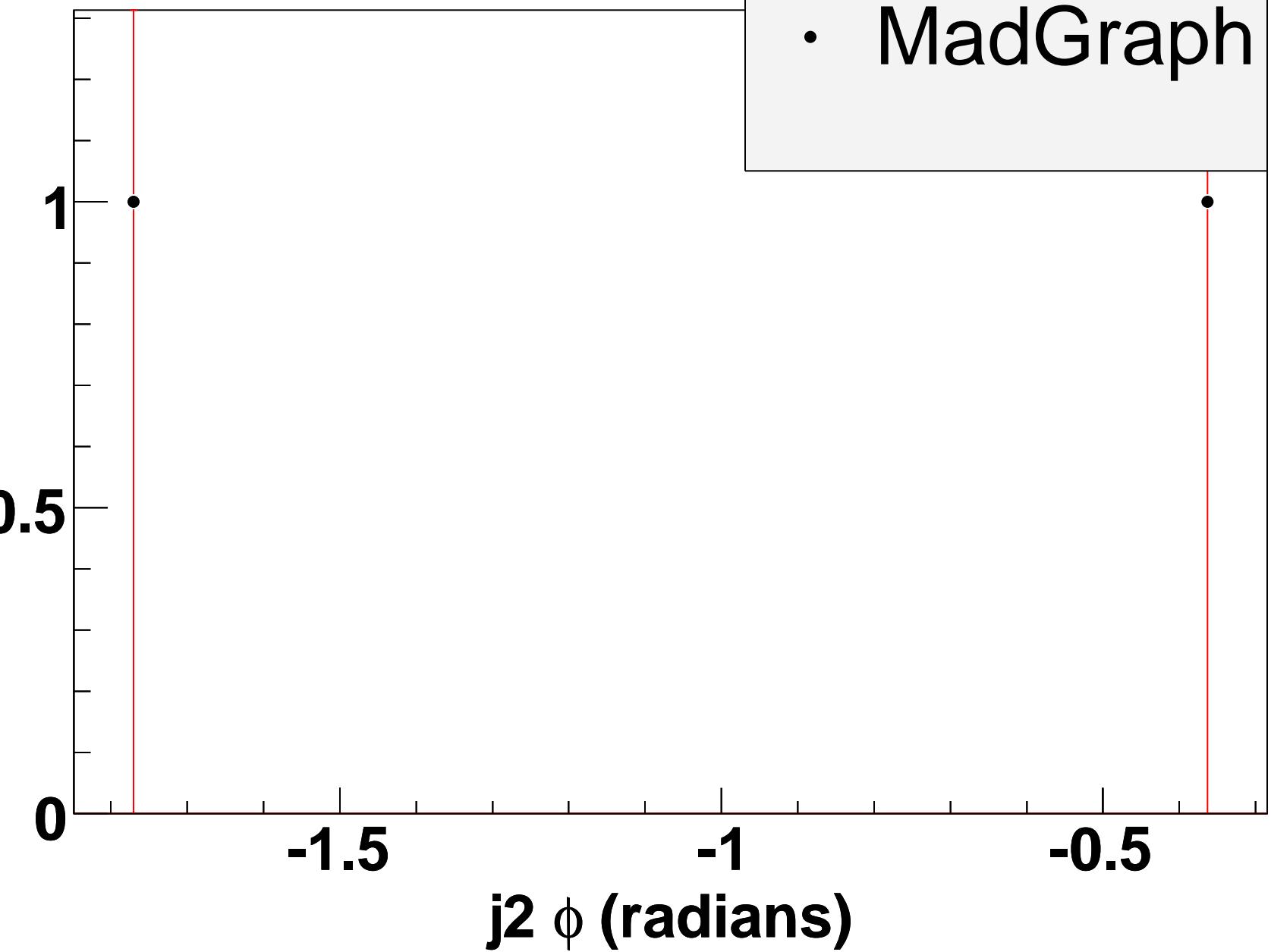
1.6

**j1  $\phi$  (radians)**

• MadGraph

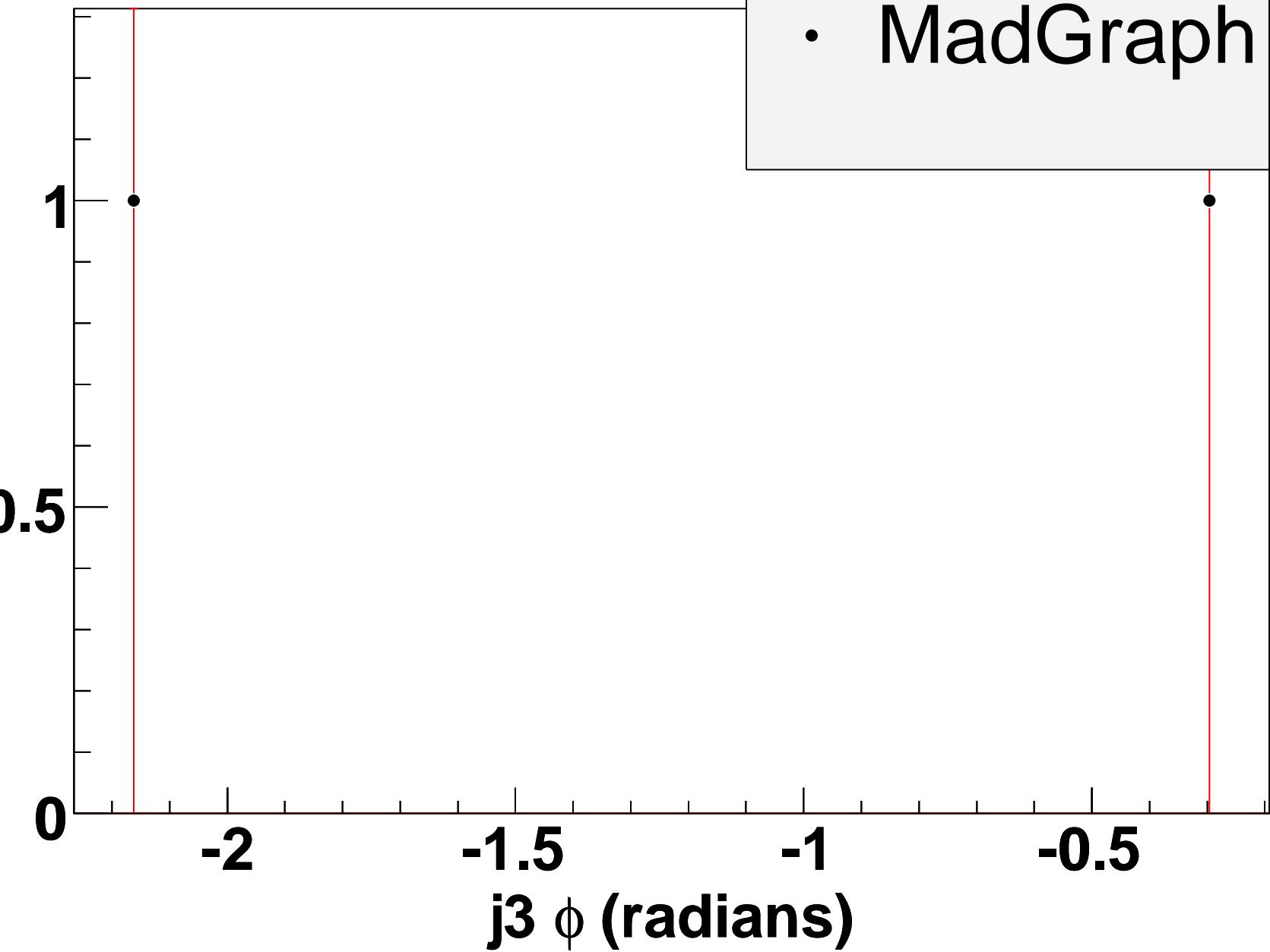
**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**



• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

0 1 2 3

**j4  $\phi$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

2

2.5

**j5  $\phi$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

-1.4

-1.2

-1

**j6  $\phi$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

-2

**b  $\phi$  (radians)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

0.5

1

1.5

$\gamma$  detEta

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

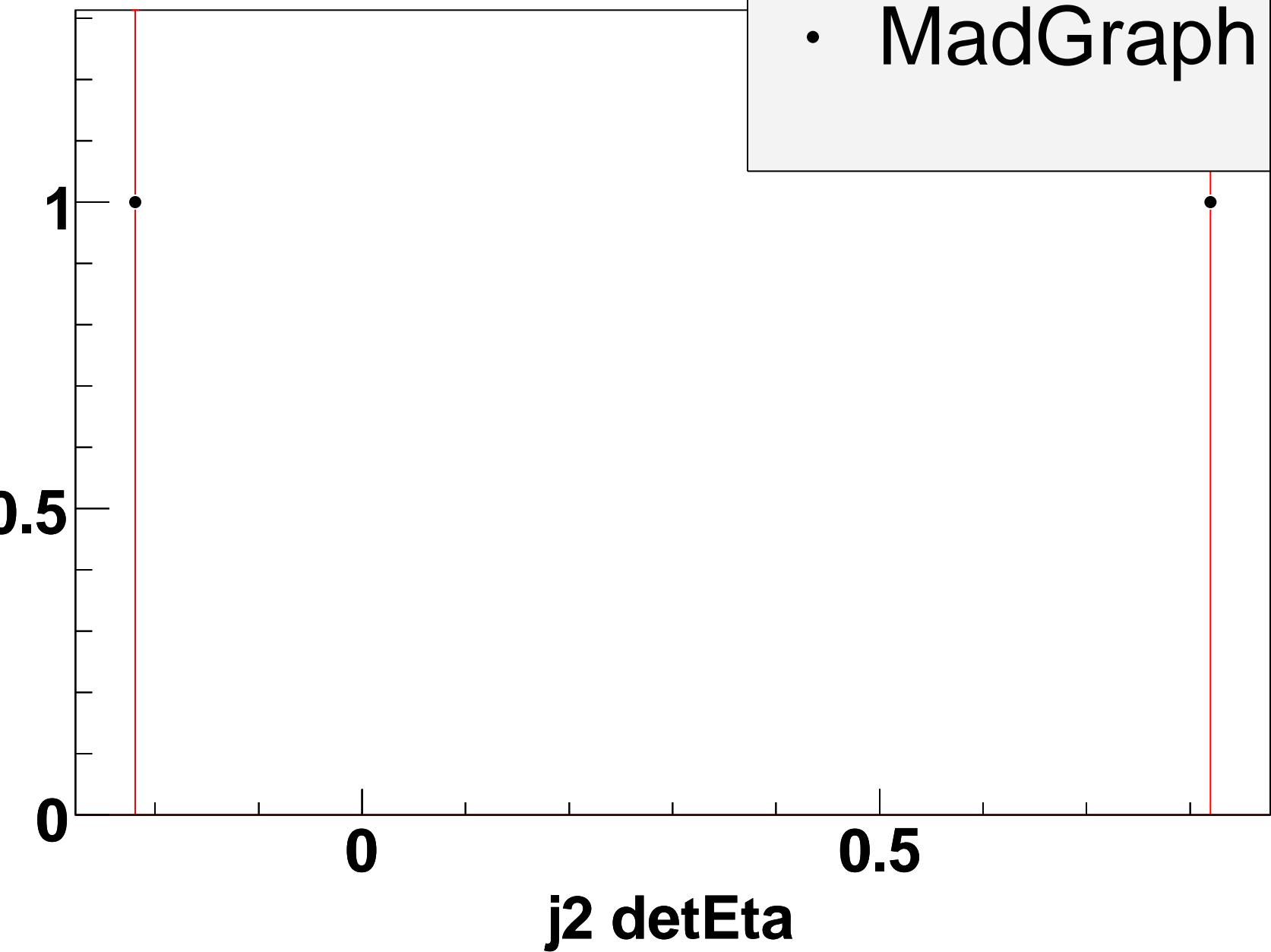
0

**j1 detEta**

• MadGraph

**Number of Events**

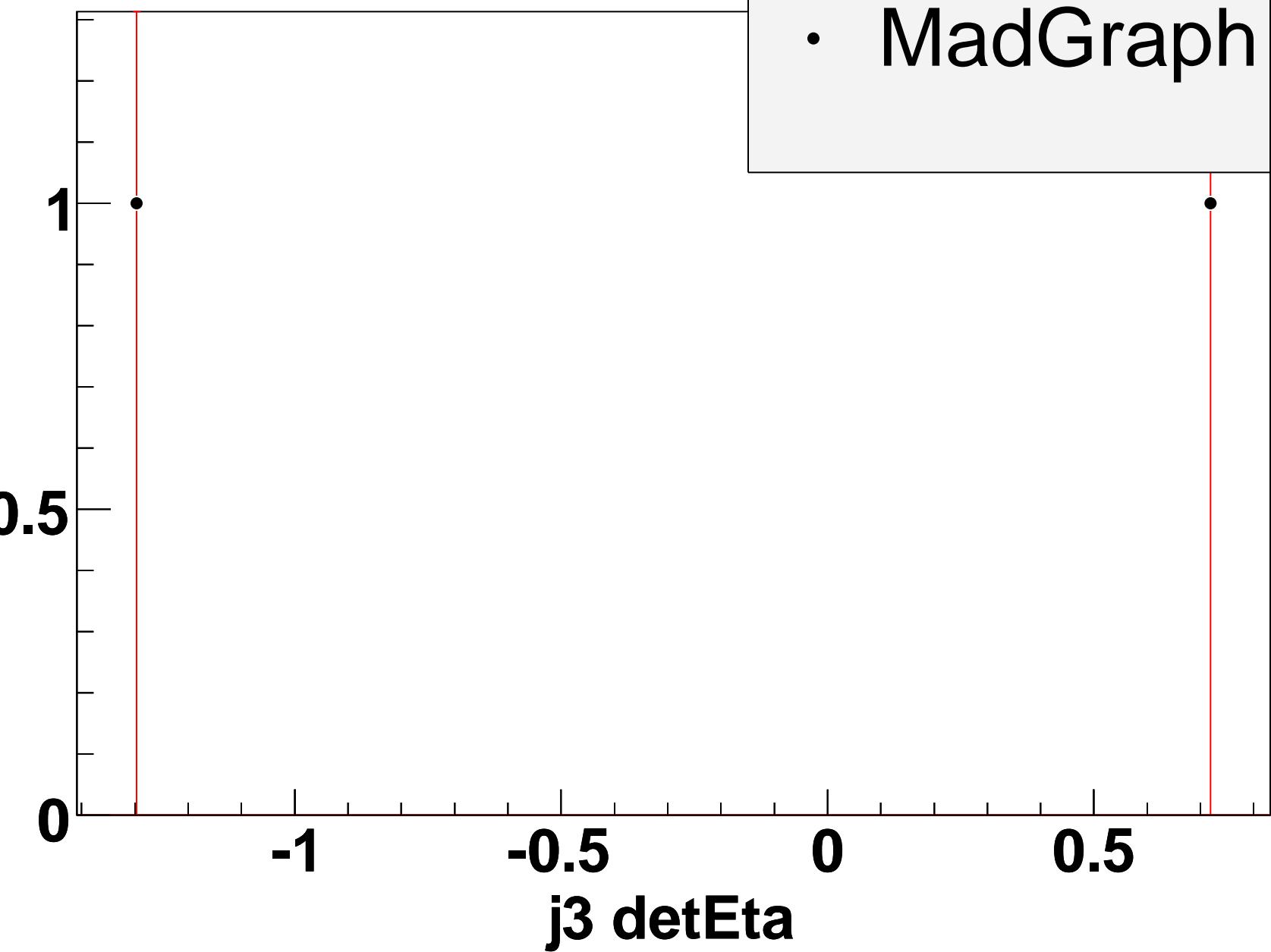
**1b6j1ph**



• MadGraph

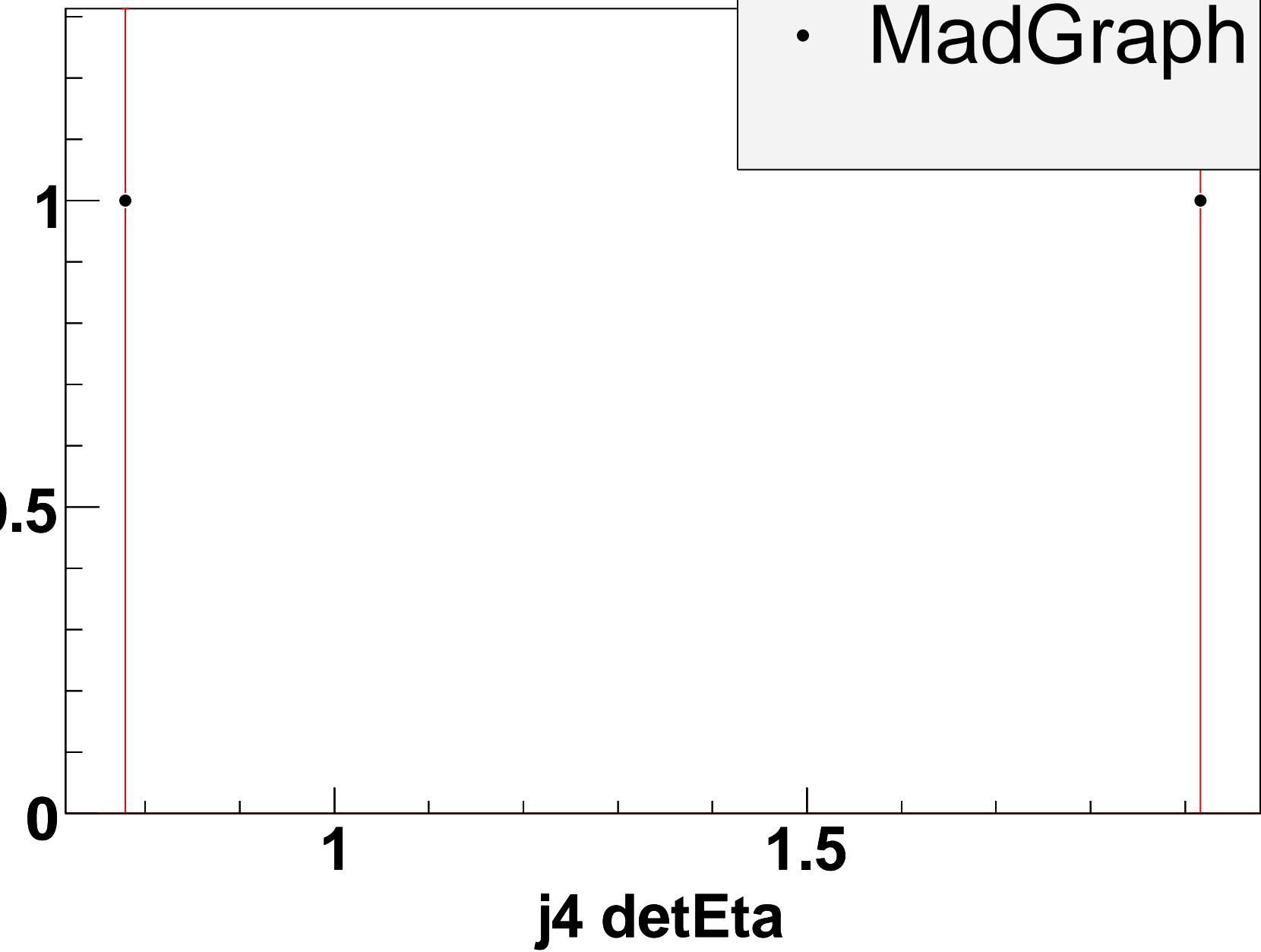
**Number of Events**

**1b6j1ph**



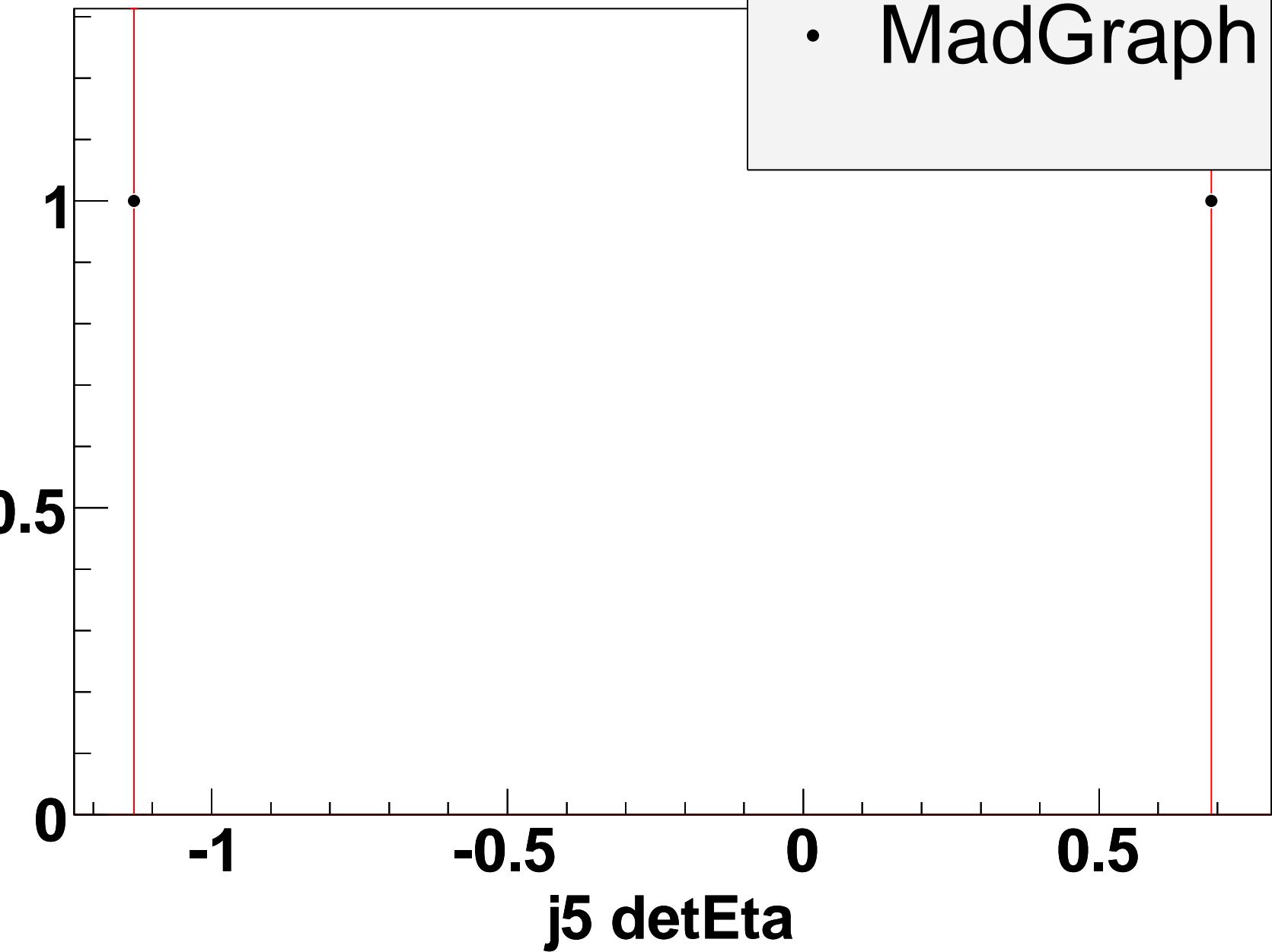
**Number of Events**

**1b6j1ph**



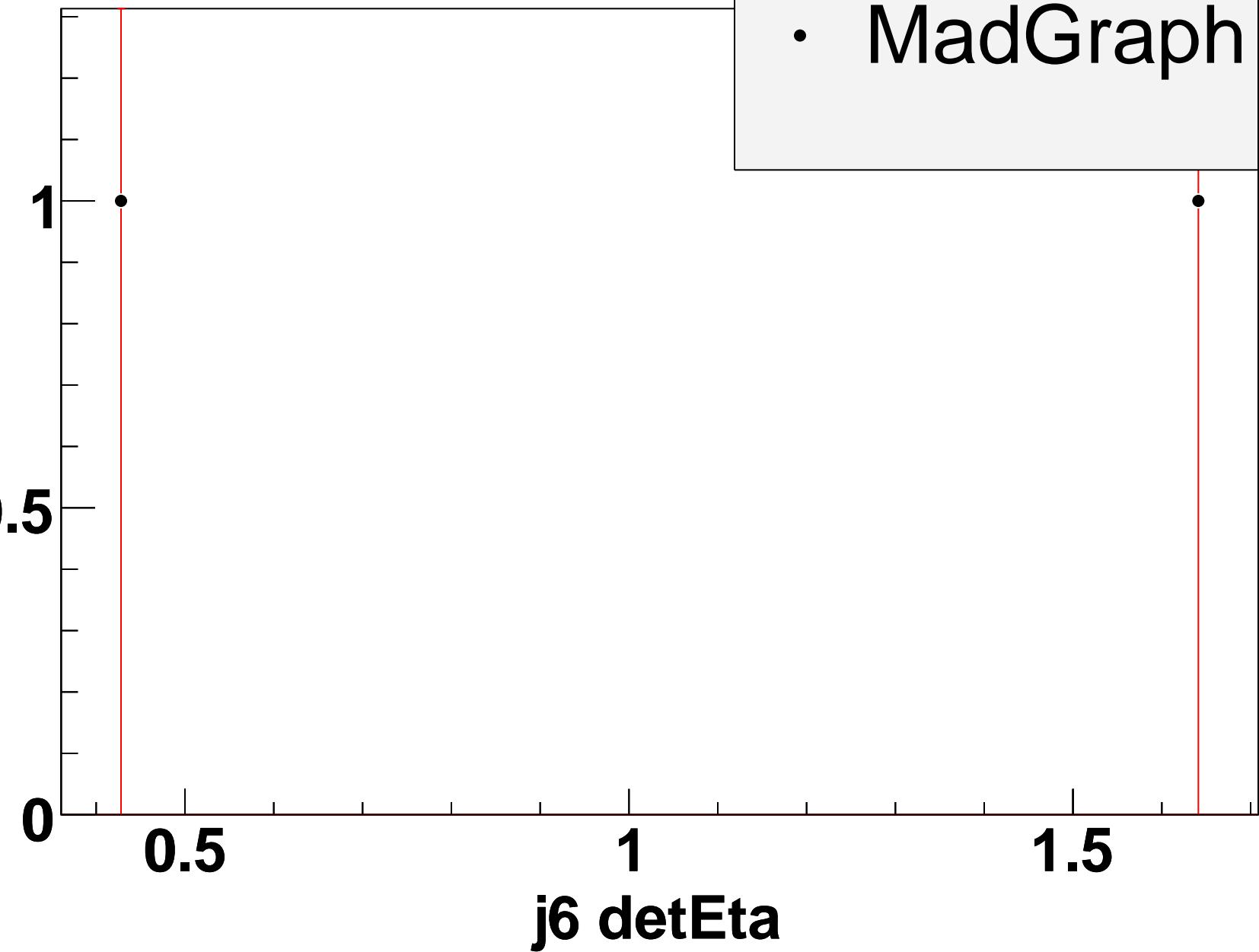
**Number of Events**

**1b6j1ph**



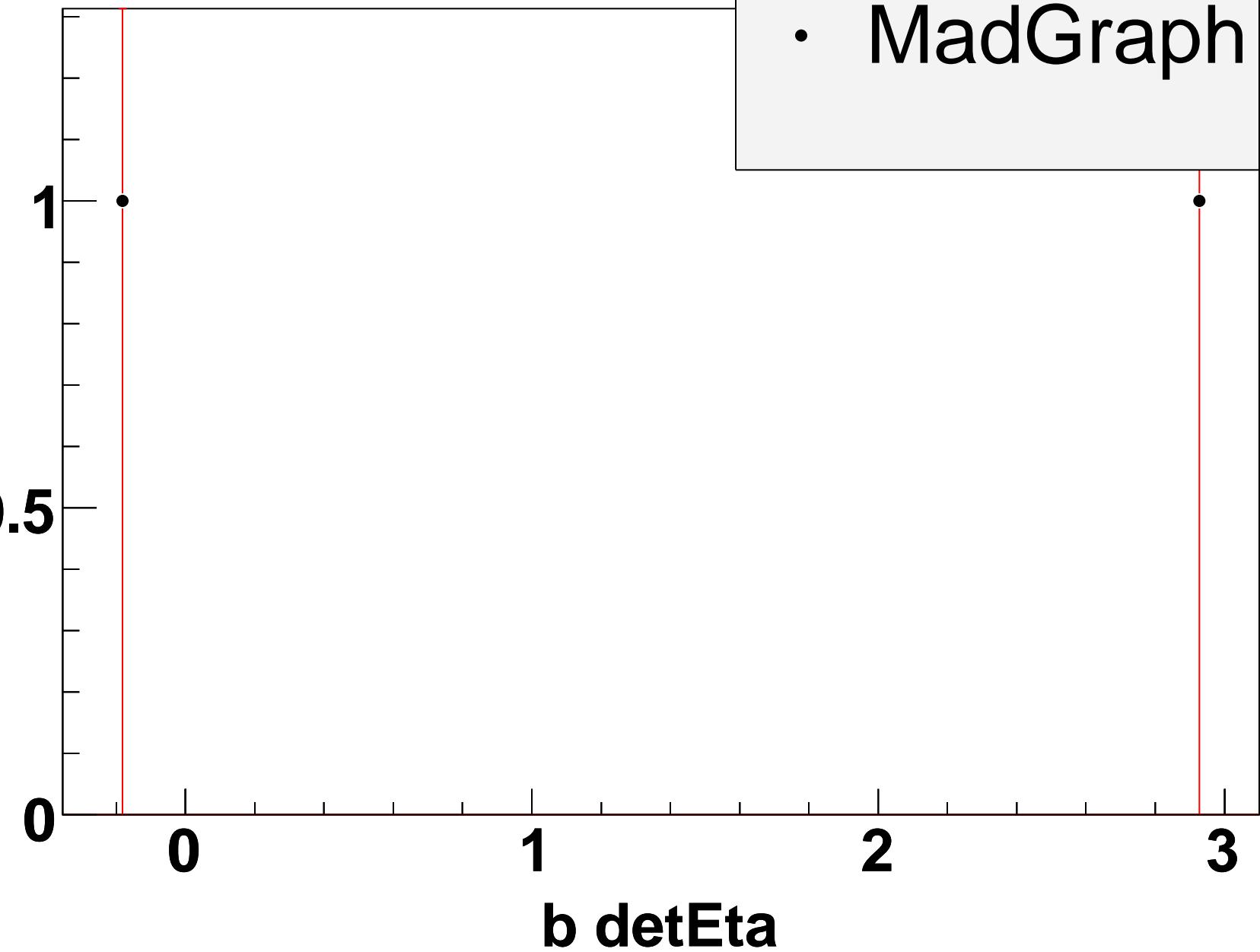
**Number of Events**

**1b6j1ph**



**Number of Events**

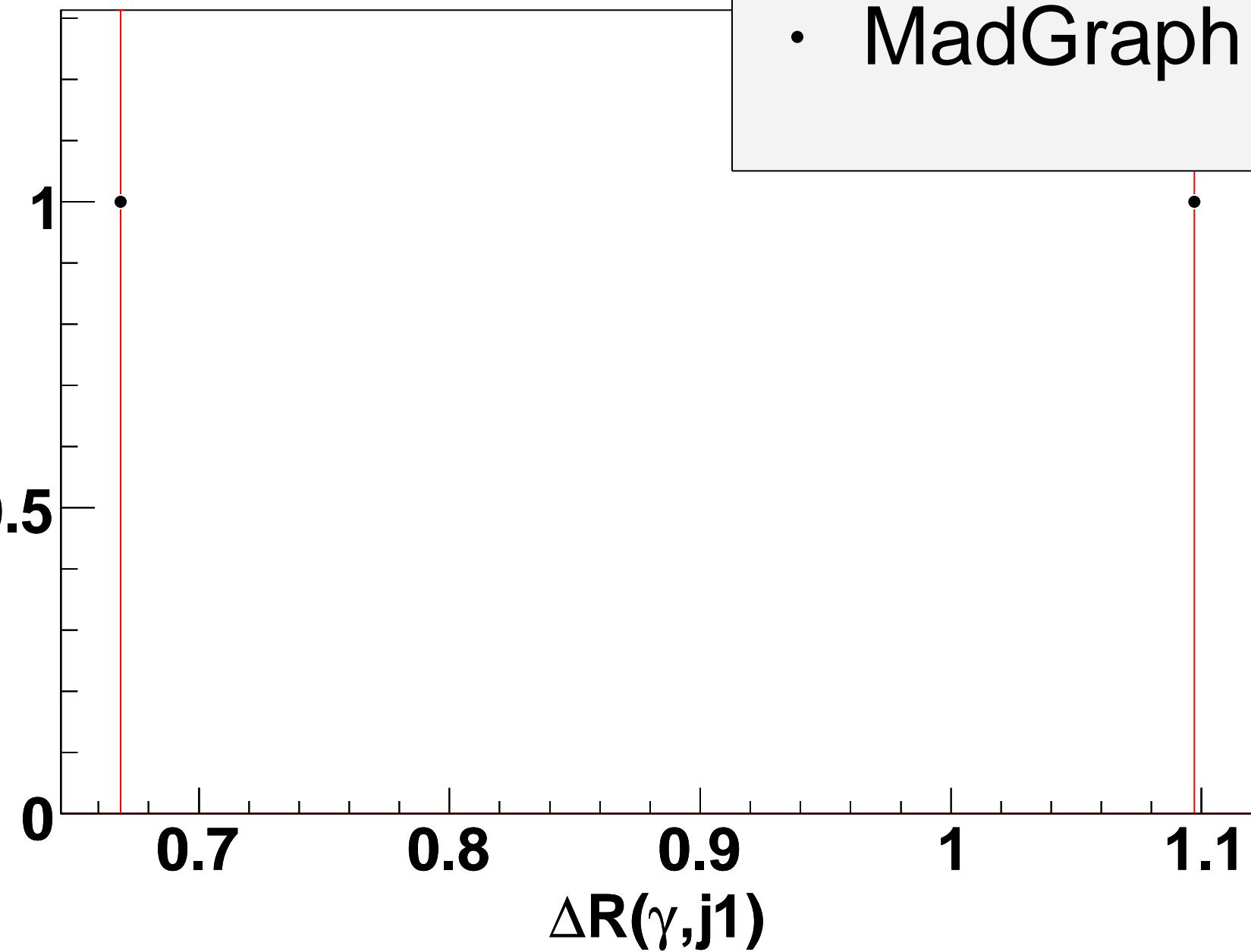
**1b6j1ph**



• MadGraph

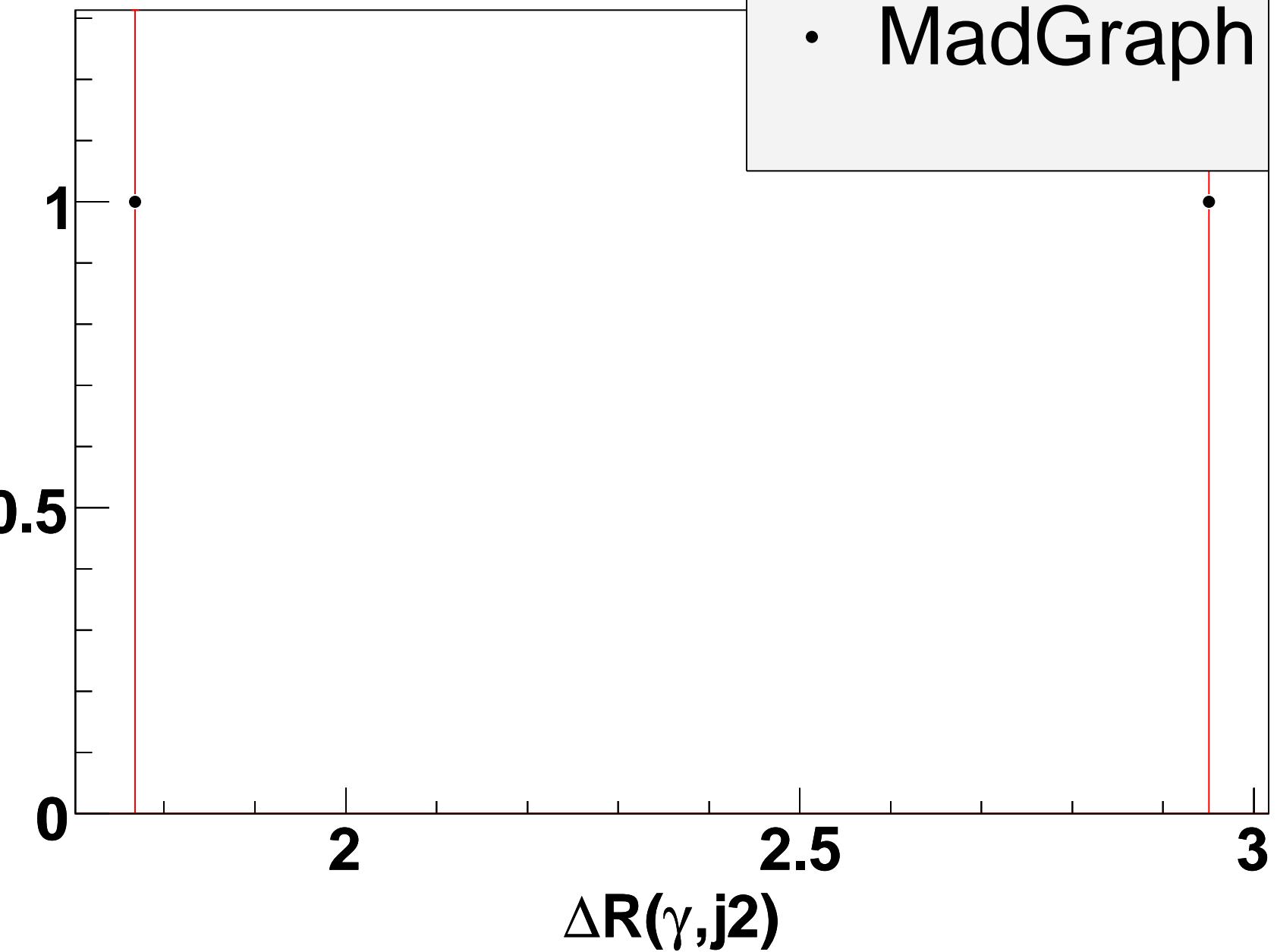
**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**

1  
0.5  
0

3

3.2

$\Delta R(\gamma, j3)$

• MadGraph

**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**2.025**

**$\Delta R(\gamma, j4)$**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

1

2

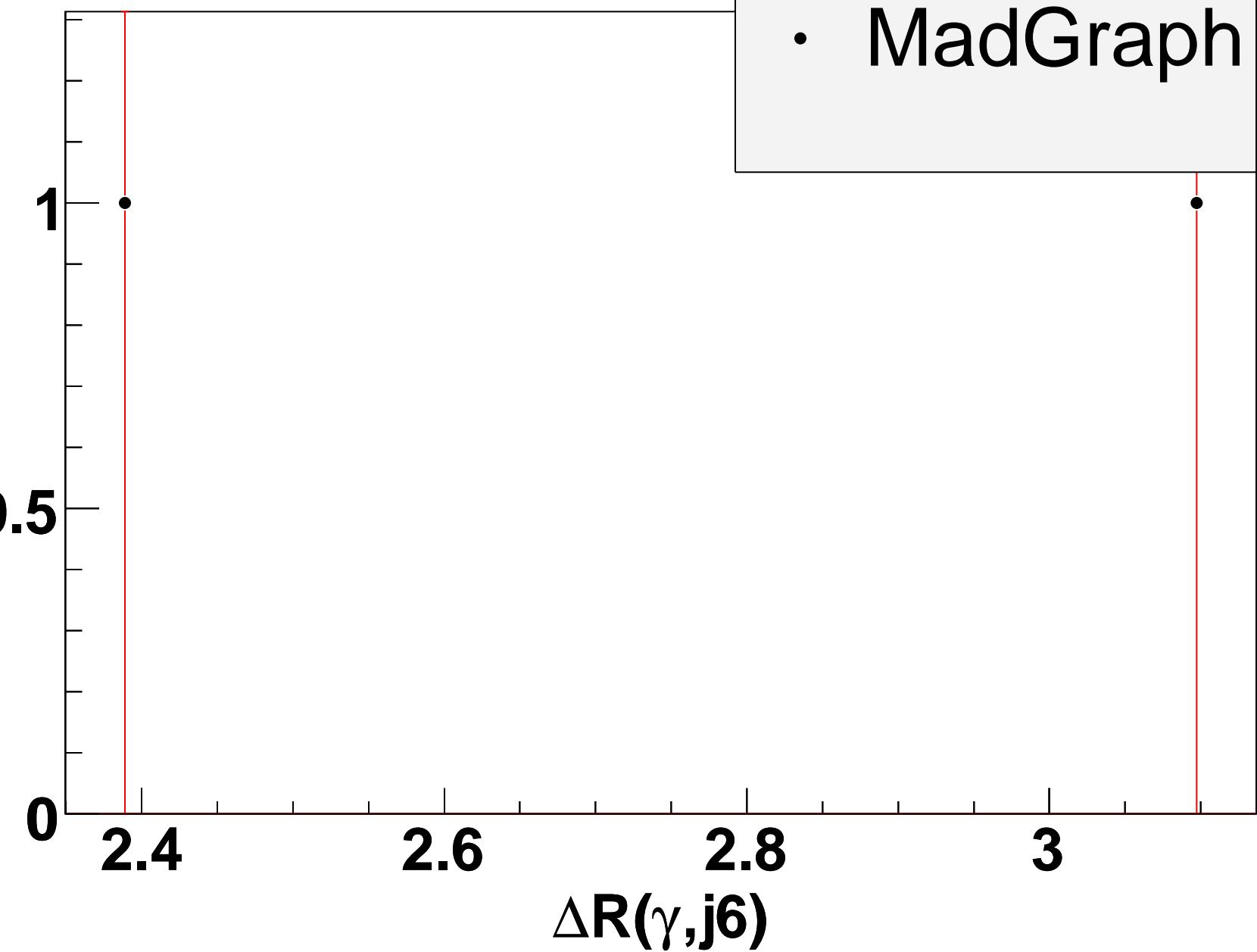
3

$\Delta R(\gamma, j5)$

• MadGraph

**Number of Events**

**1b6j1ph**



• MadGraph

**Number of Events**

**1b6j1ph**

1

0.5

0

3.2

3.4

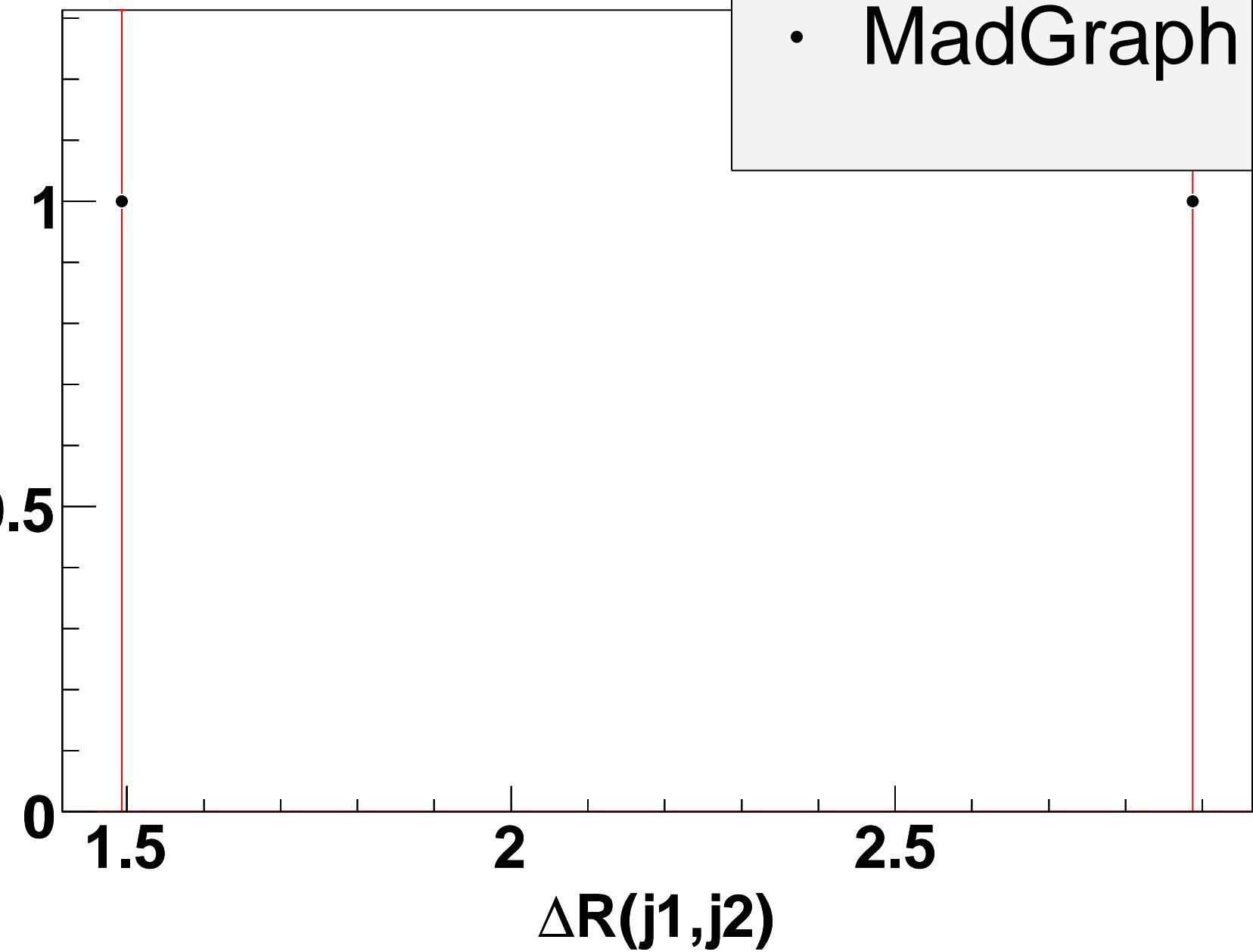
3.6

$\Delta R(\gamma, b)$

• MadGraph

**Number of Events**

**1b6j1ph**



• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

2.9

3

3.1

$\Delta R(j_1, j_3)$

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

1.8

1.9

2

2.1

$\Delta R(j_1, j_4)$

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

1.5      2

$\Delta R(j_1, j_5)$

• MadGraph

**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**2.6**

**2.8**

**3**

**3.2**

**$\Delta R(j_1, j_6)$**

• MadGraph

**Number of Events**

**1b6j1ph**

1

0.5

0

3.5

4

**$\Delta R(j1,b)$**

• MadGraph

**Number of Events**

**1b6j1ph**

1

0.5

0

2.2

2.4

2.6

$\Delta R(j_2, j_3)$

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

1.2

1.4

1.6

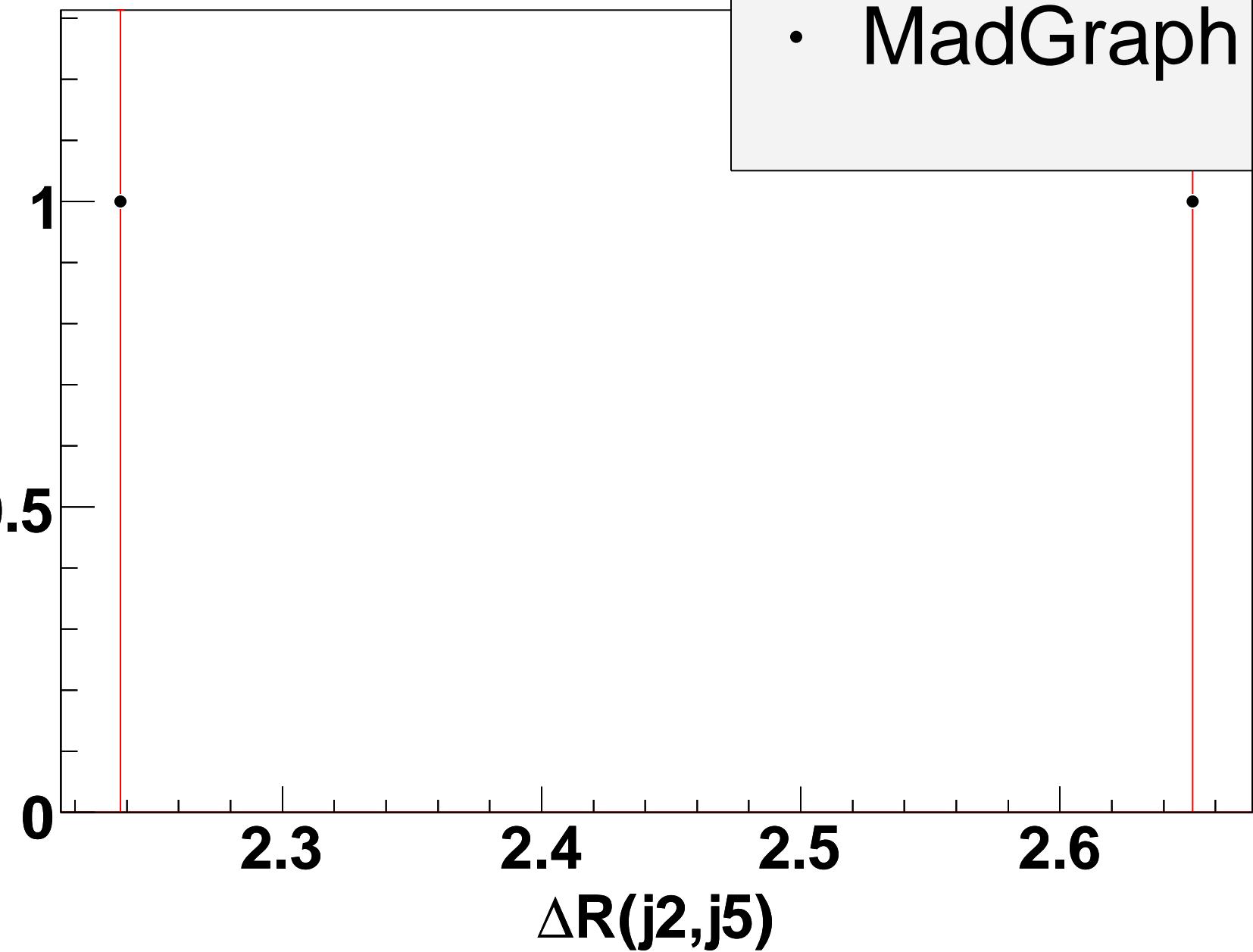
1.8

$\Delta R(j_2, j_4)$

• MadGraph

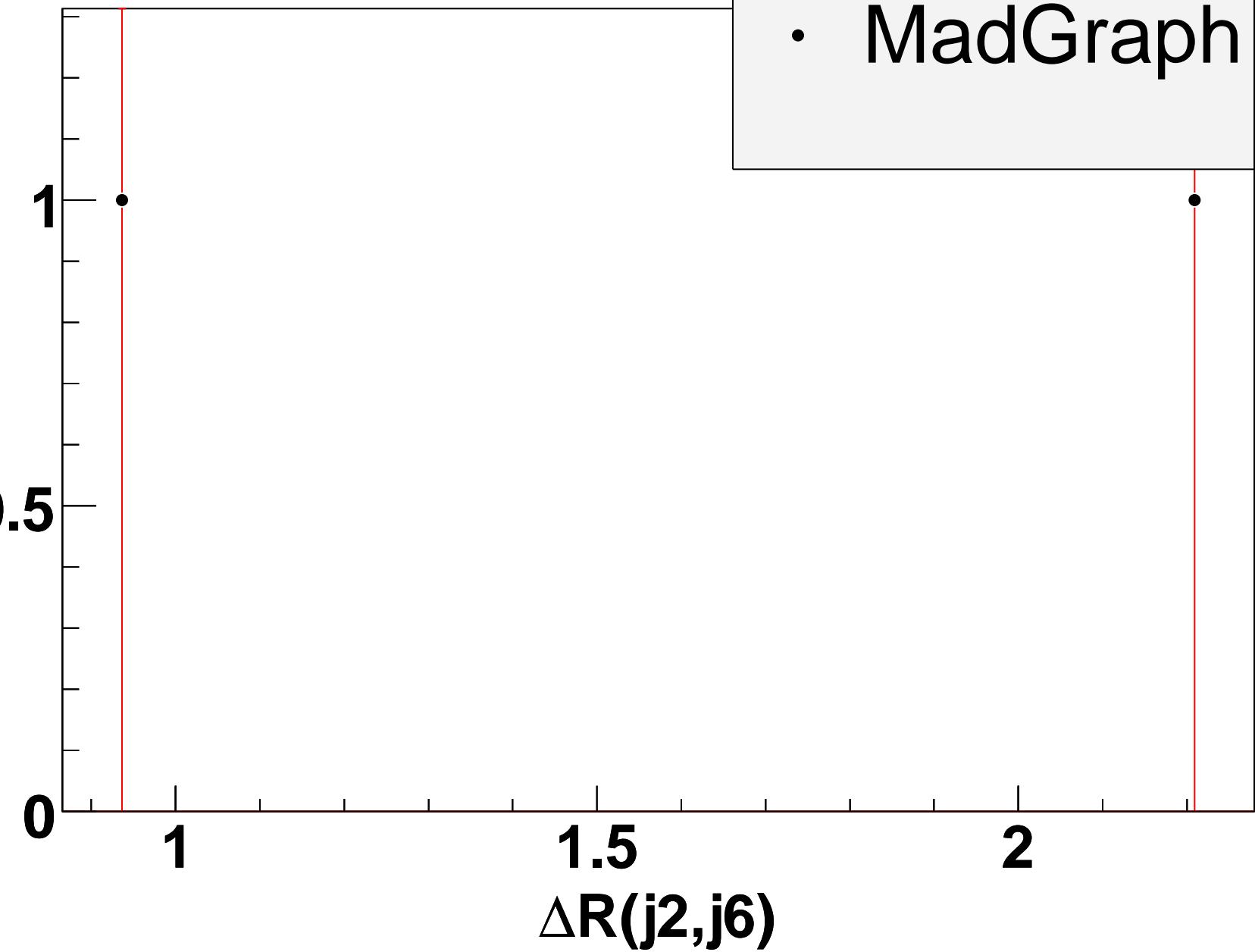
**Number of Events**

**1b6j1ph**



**Number of Events**

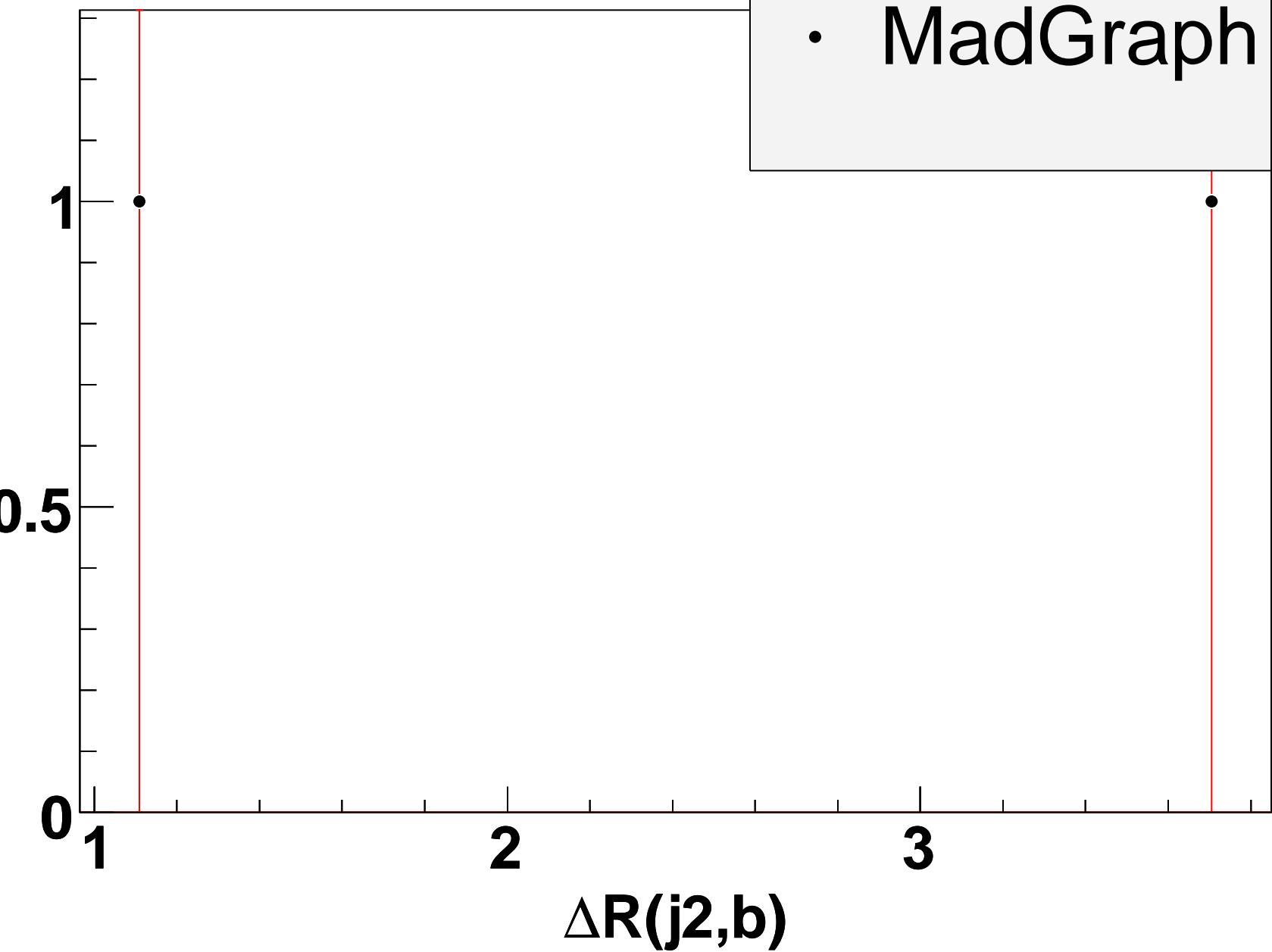
**1b6j1ph**



• MadGraph

**Number of Events**

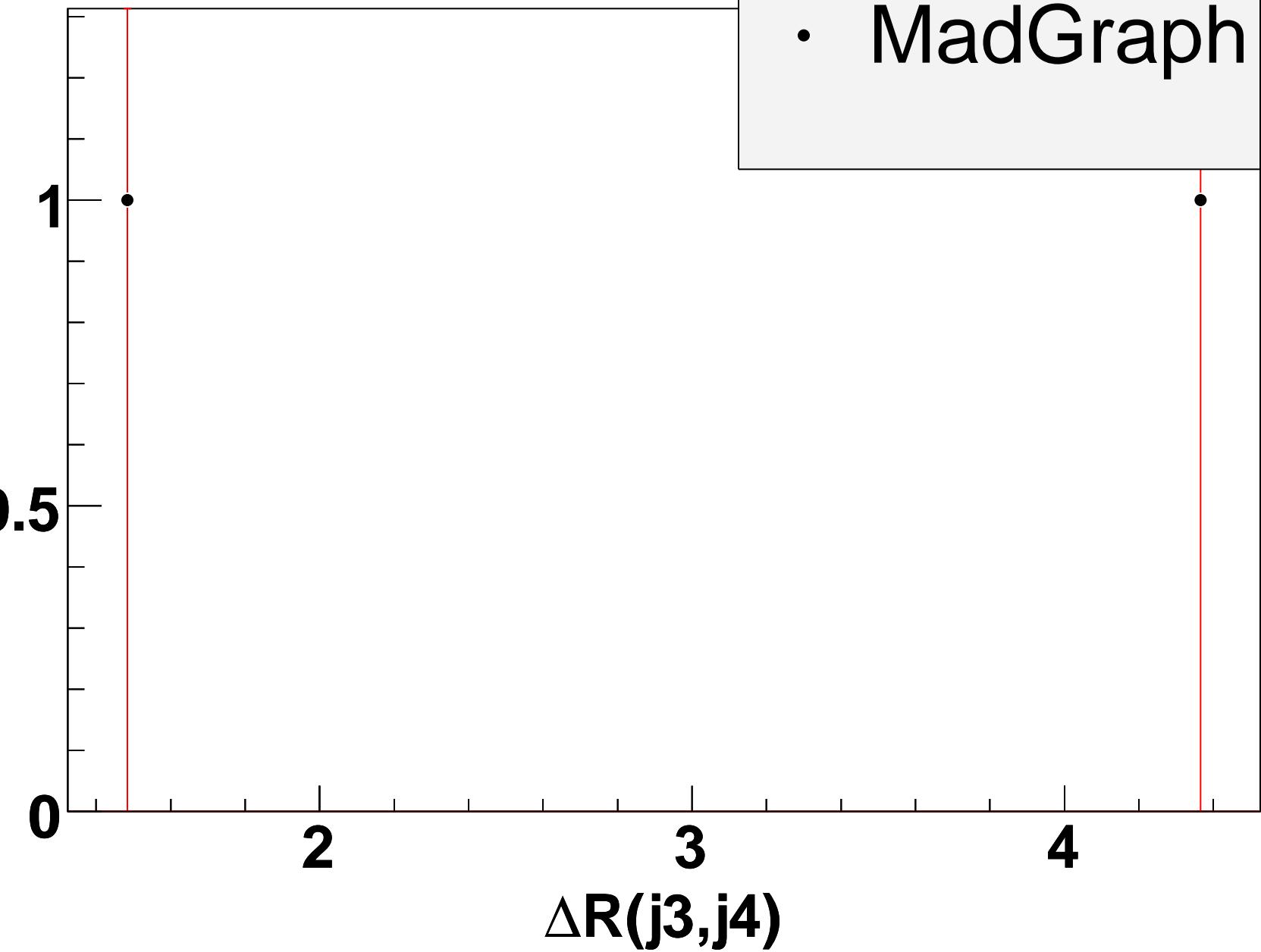
**1b6j1ph**



• MadGraph

**Number of Events**

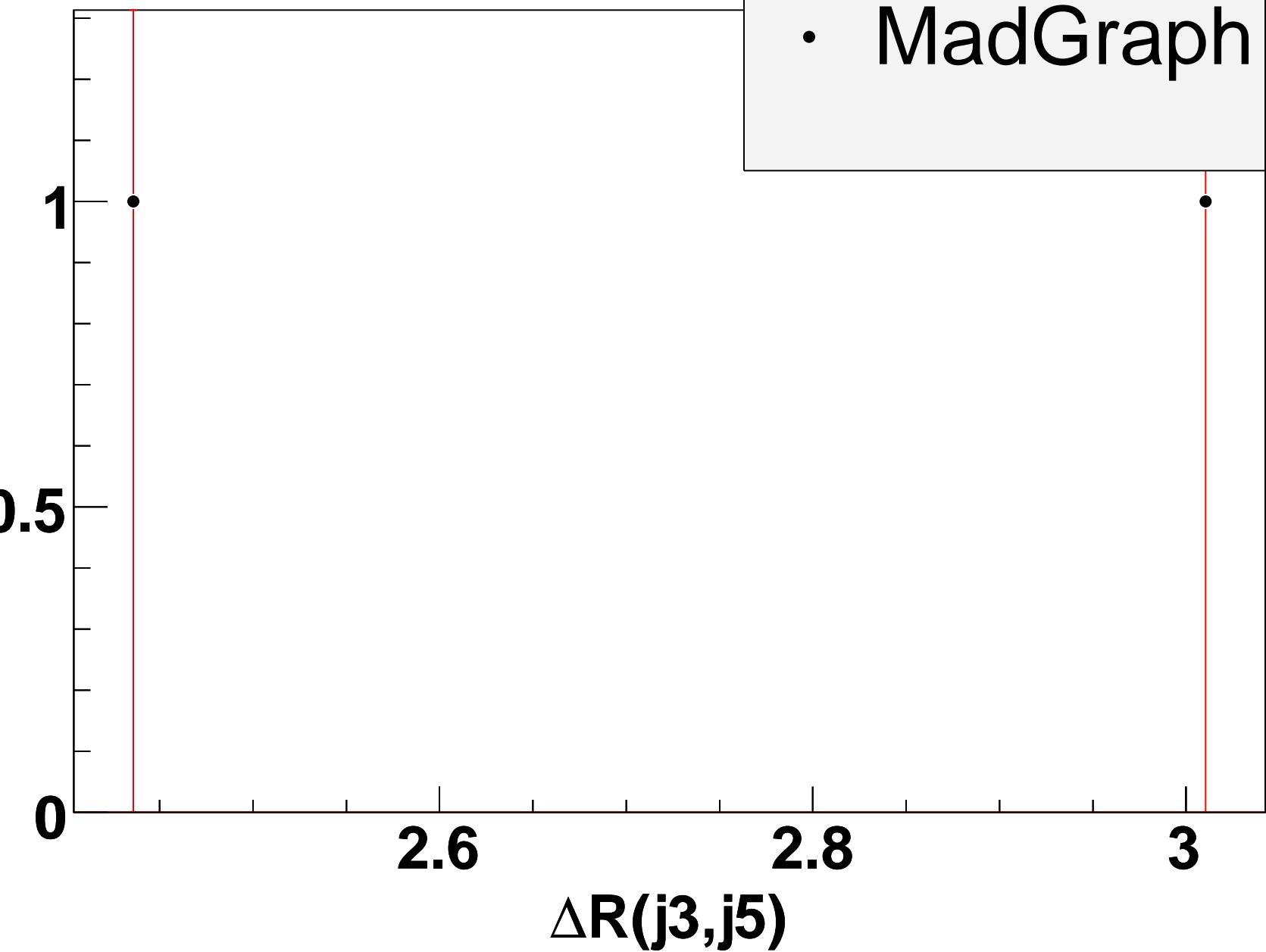
**1b6j1ph**



• MadGraph

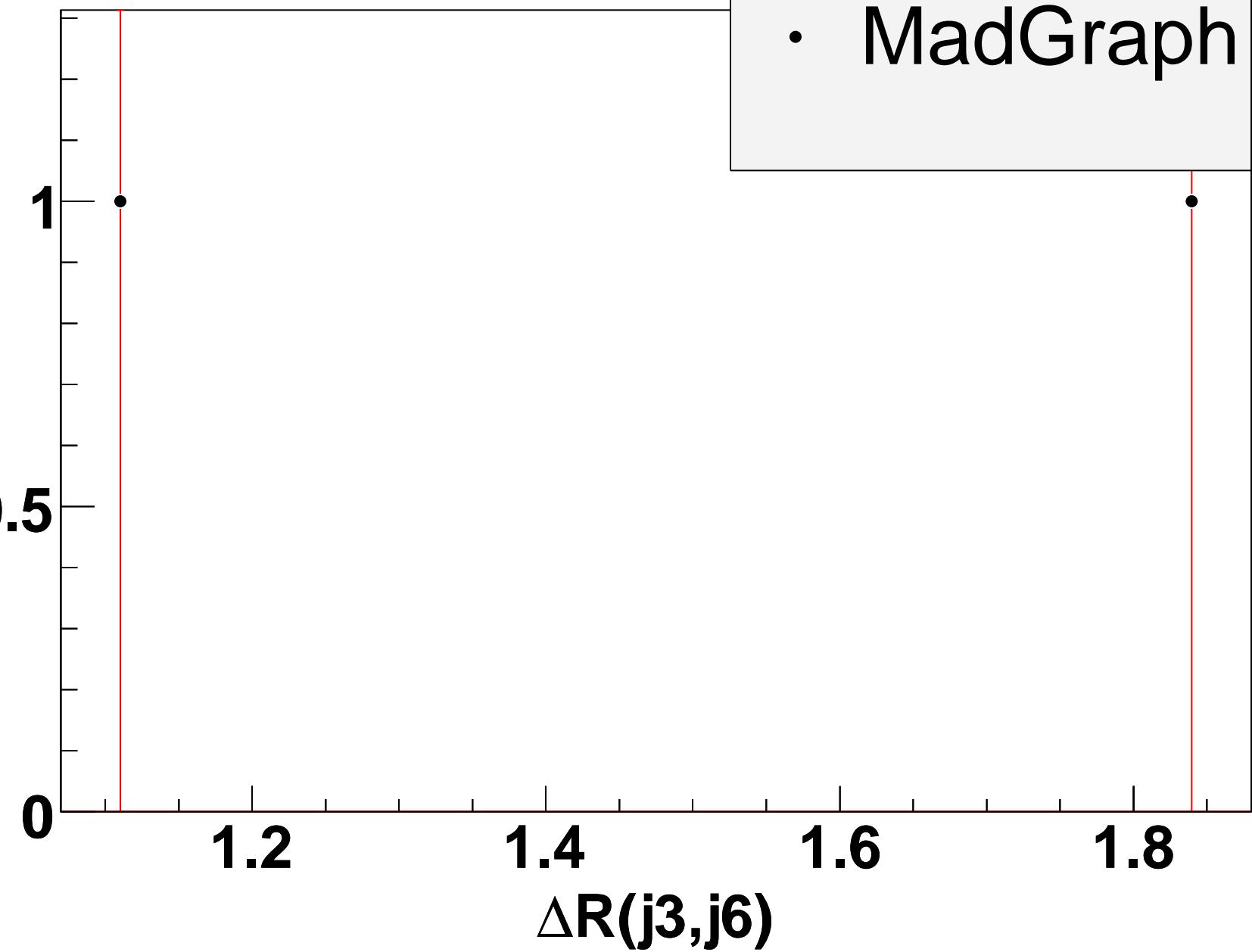
**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**



• MadGraph

**Number of Events**

**1b6j1ph**

1

0.5

0

1.6

1.8

2

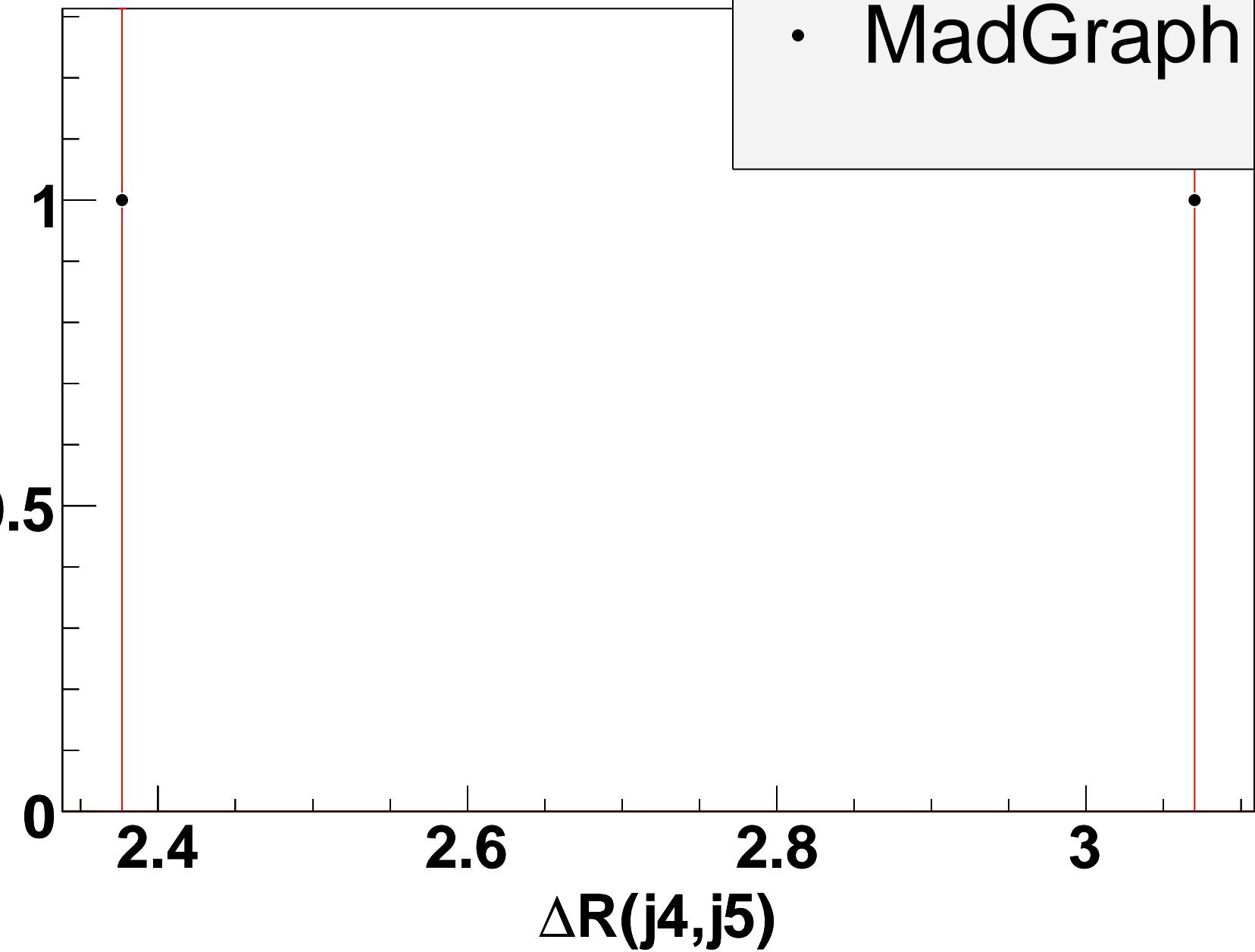
2.2

$\Delta R(j_3, b)$

• MadGraph

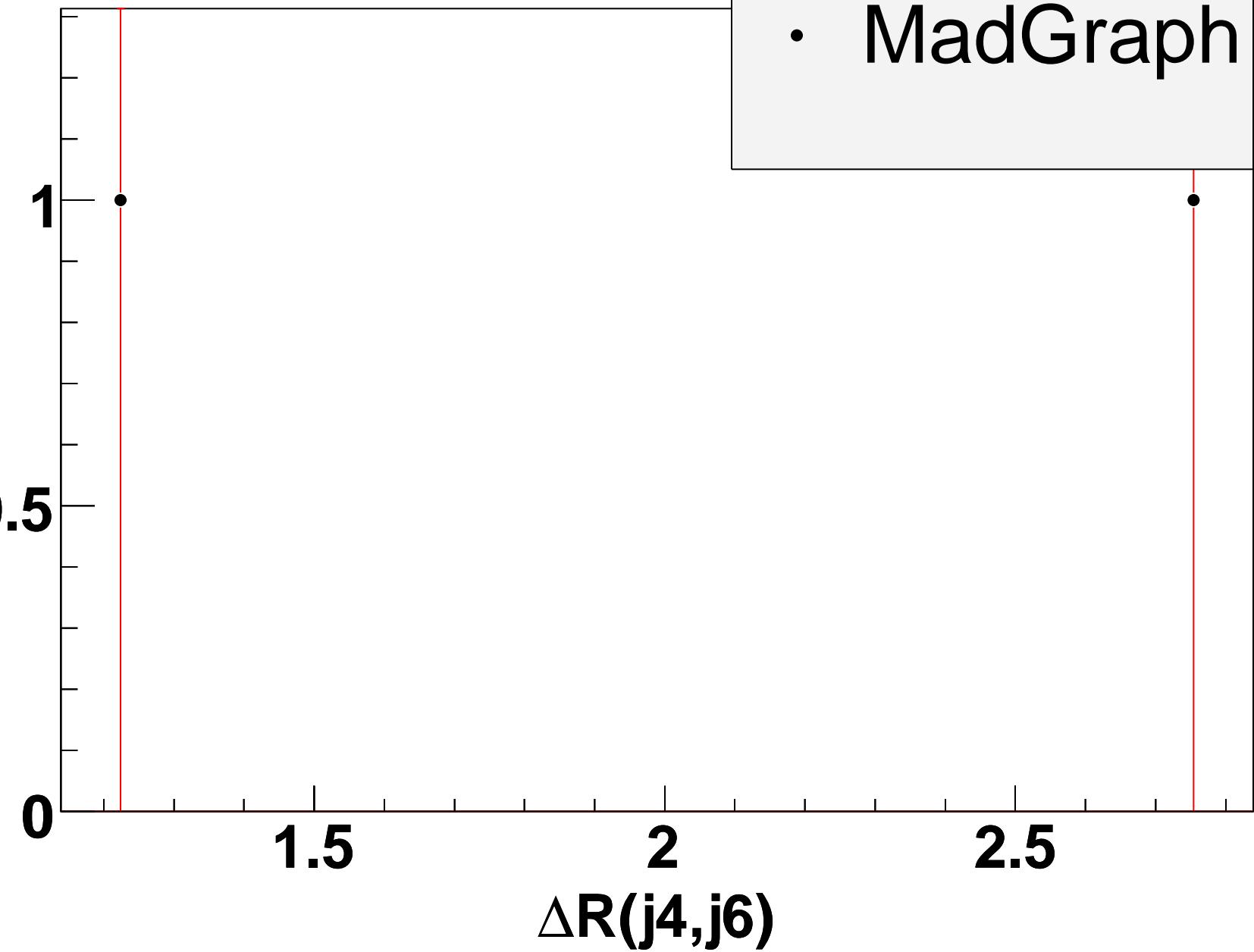
**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**2.7**

**2.75**

**2.8**

**2.85**

**$\Delta R(j4,b)$**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

3.1

3.15

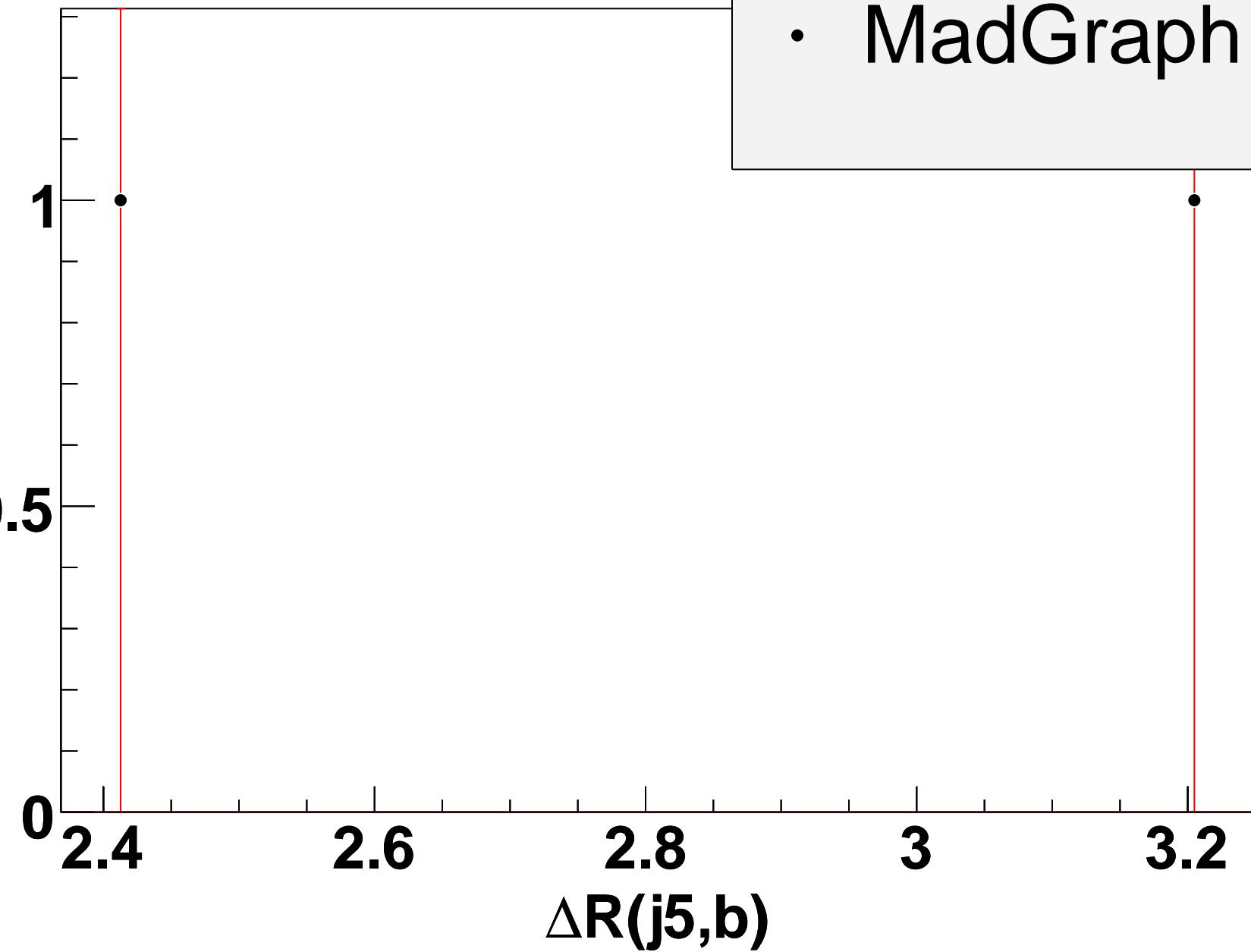
3.2

**$\Delta R(j5, j6)$**

• MadGraph

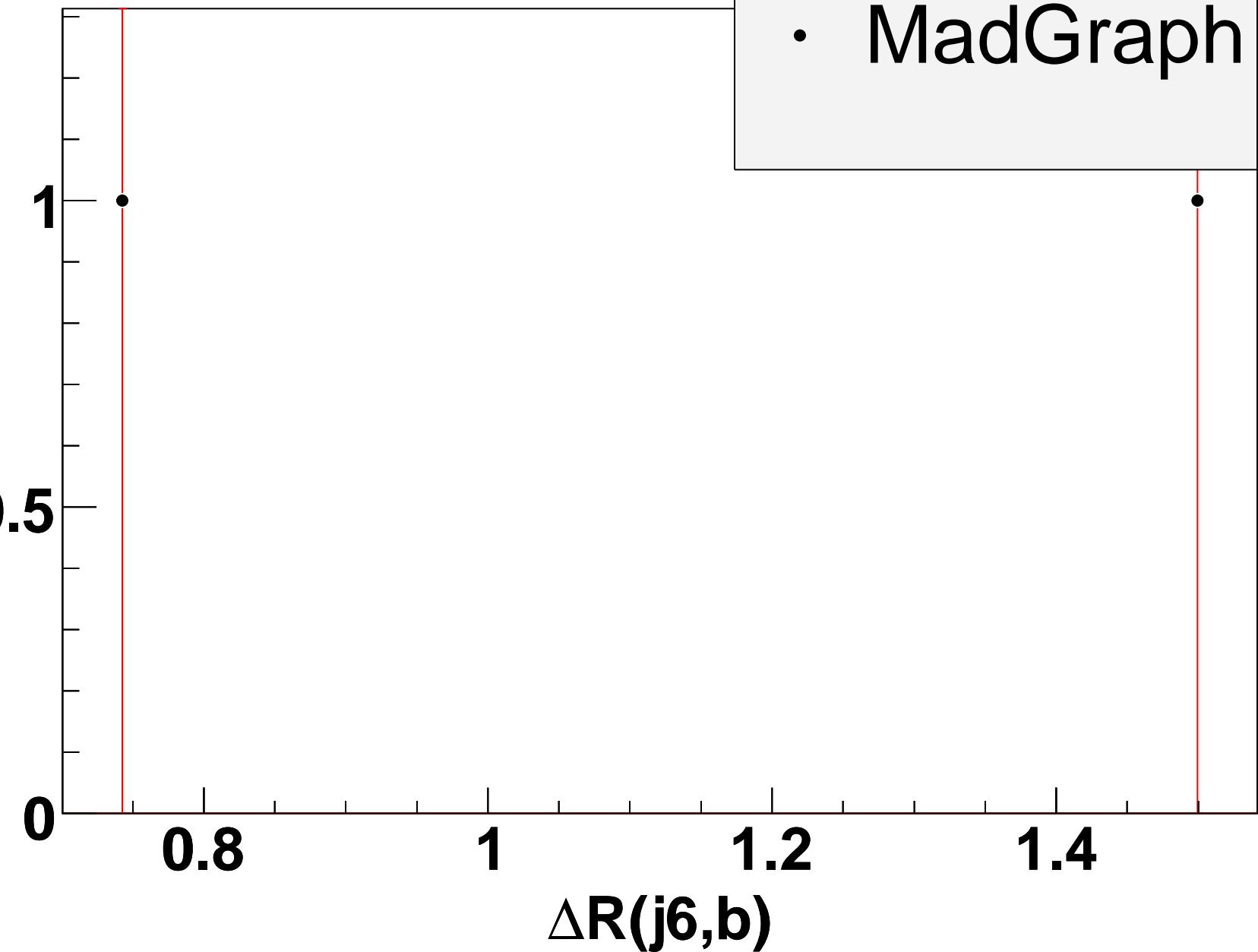
**Number of Events**

**1b6j1ph**



**Number of Events**

**1b6j1ph**



• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

10

12

14

**M(j1) (GeV)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

20

40

60

**M(j2) (GeV)**

• MadGraph

**Number of Events**

**1b6j1ph**

1

0.5

0

10

15

20

**M(j3) (GeV)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

15

20

**M(j4) (GeV)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

10

10.5

11

**M(j5) (GeV)**

• MadGraph

**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**7.5**

**M(j6) (GeV)**

• MadGraph

**Number of Events**

**1b6j1ph**

1  
0.5  
0

10

12

14

**M(b) (GeV)**

• MadGraph

**Number of Events**

**1b6j1ph**

**1**

**0.5**

**0**

**7.5**

**8**

**8.5**

**minMass(j) (GeV)**

• MadGraph

**Number of Events**

**1b6j1ph**

