

3j1ph1pmiss

Number of Events

300

200

100

0

100

200

300

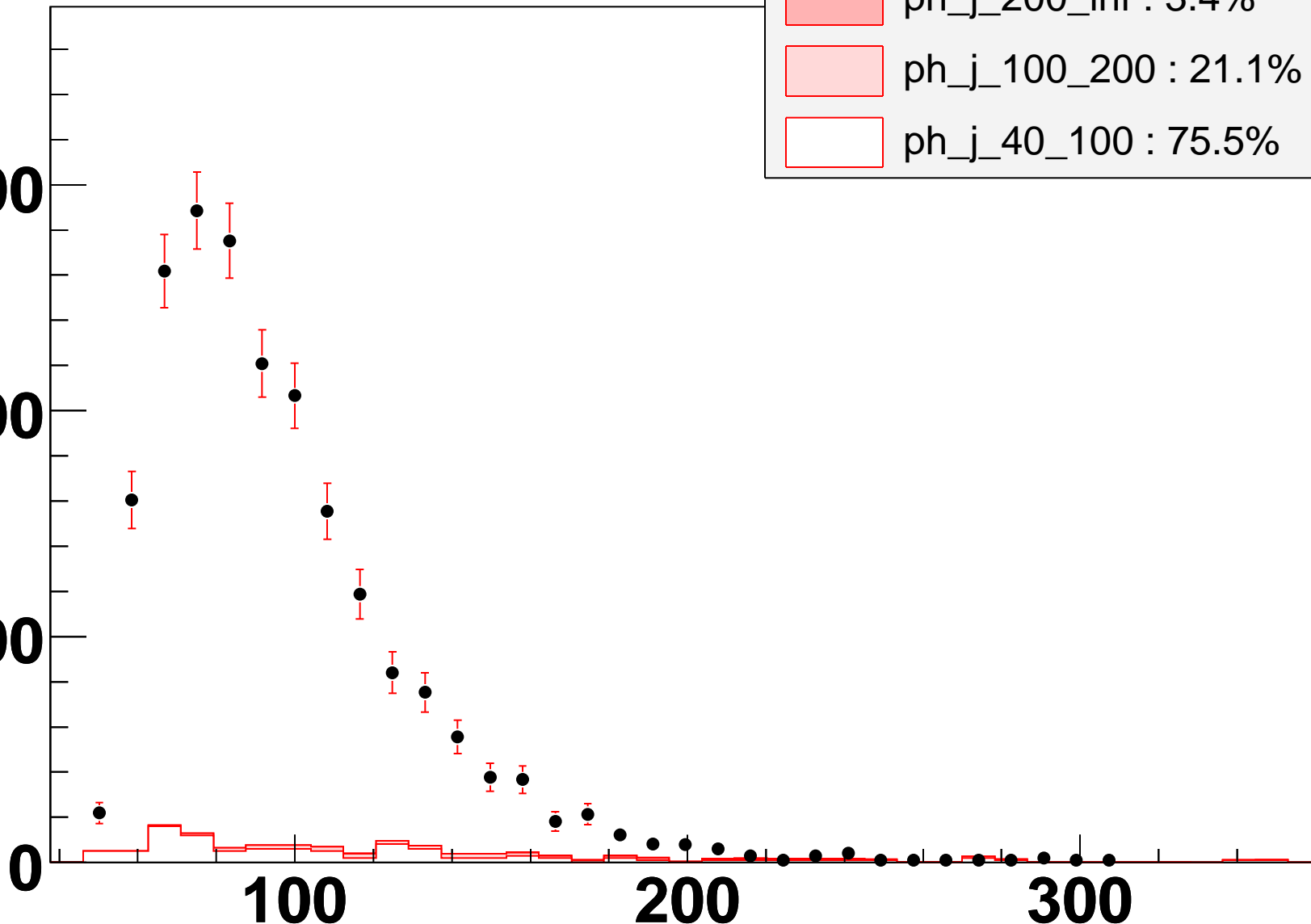
$M_t(\gamma, p_{\text{miss}})$ (GeV)

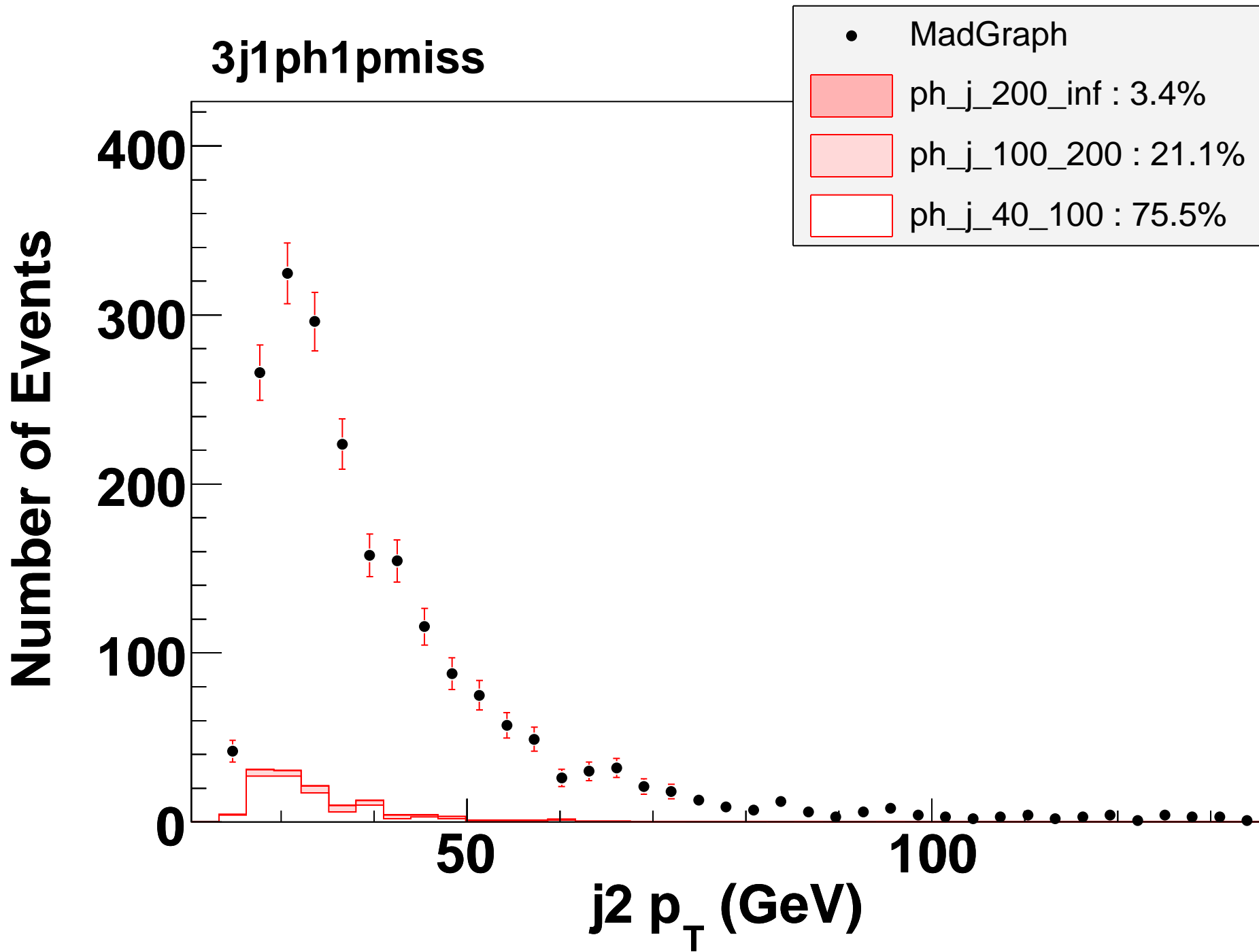
• MadGraph

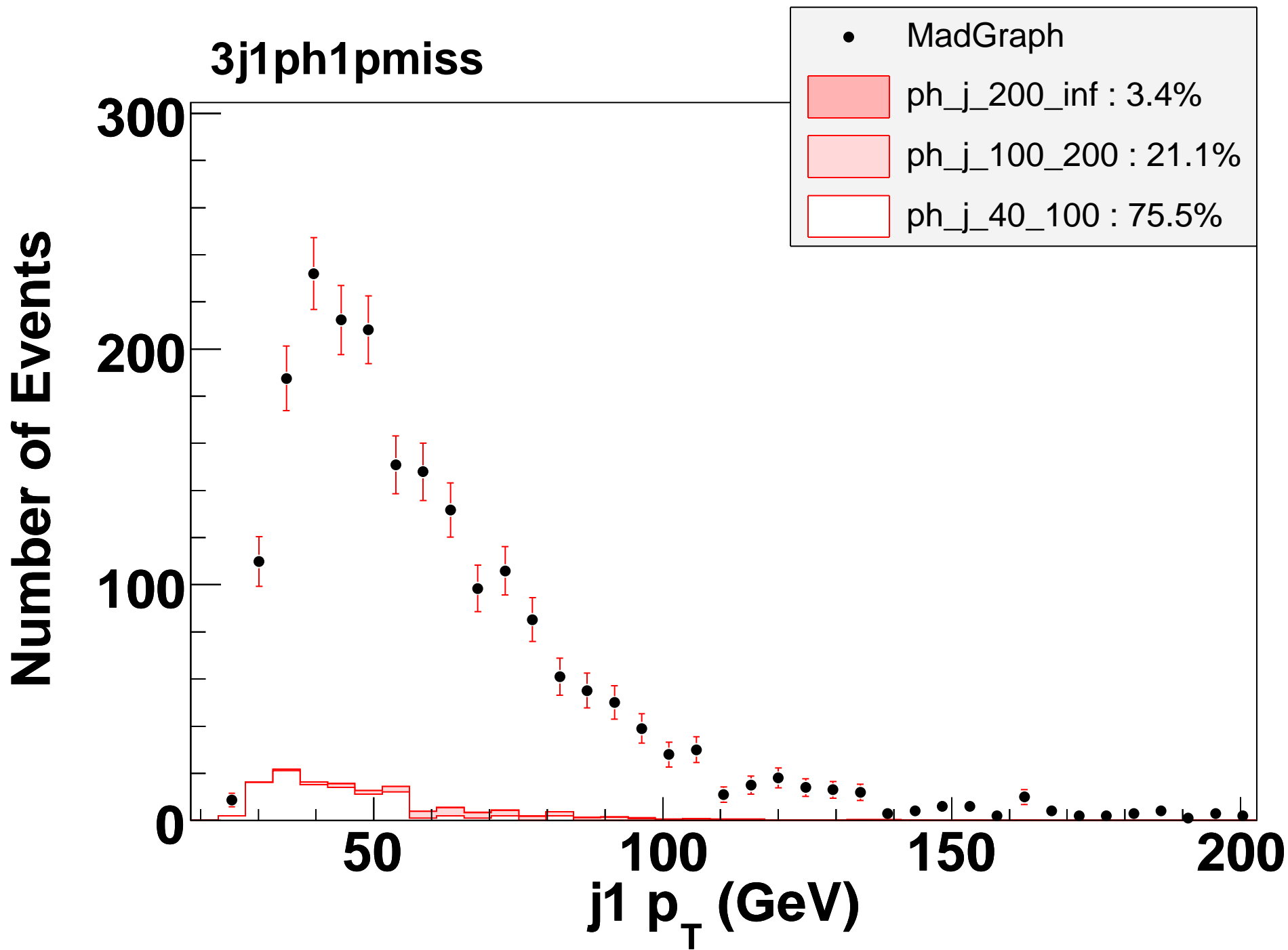
ph_j_200_inf : 3.4%

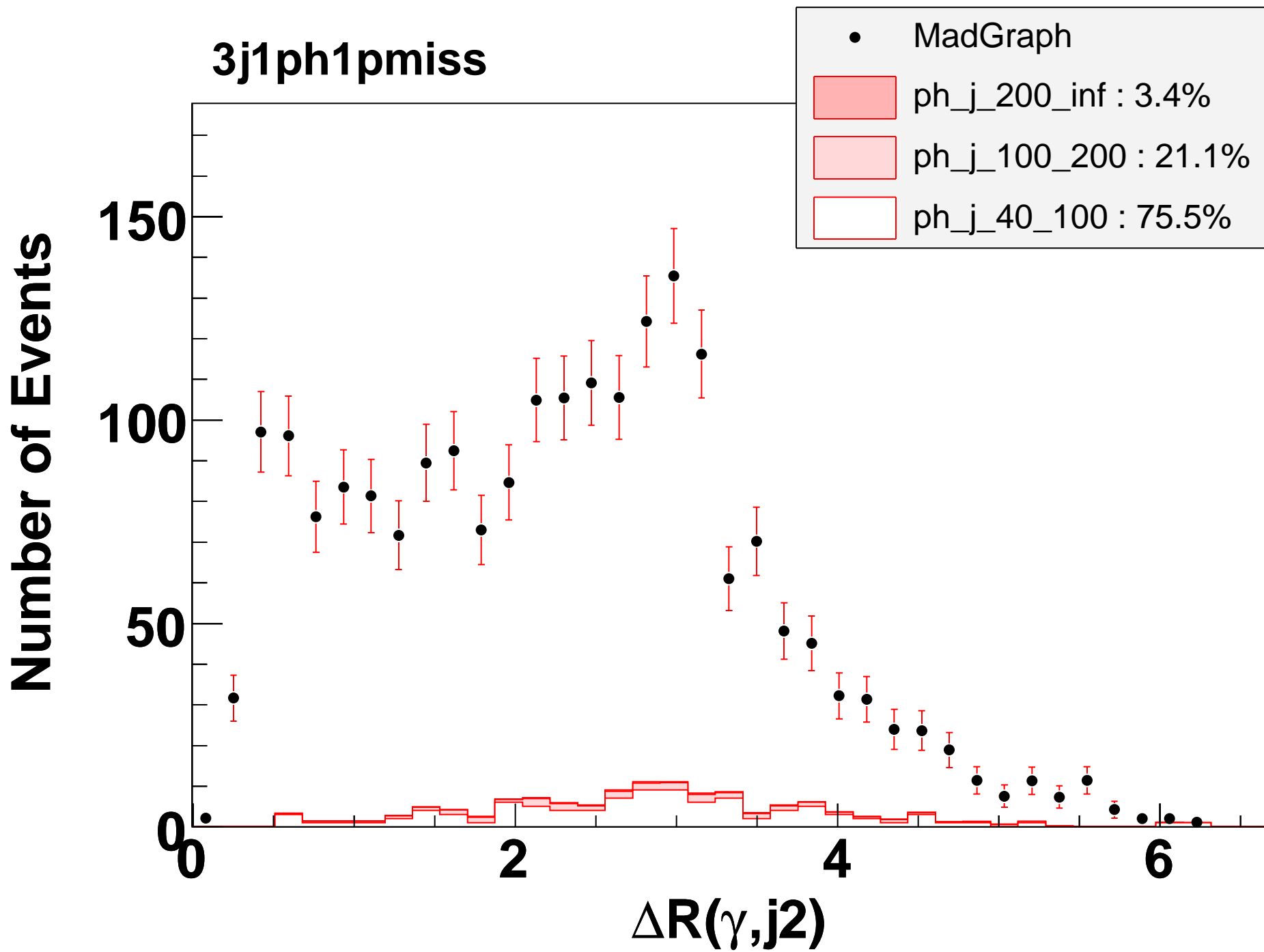
ph_j_100_200 : 21.1%

ph_j_40_100 : 75.5%



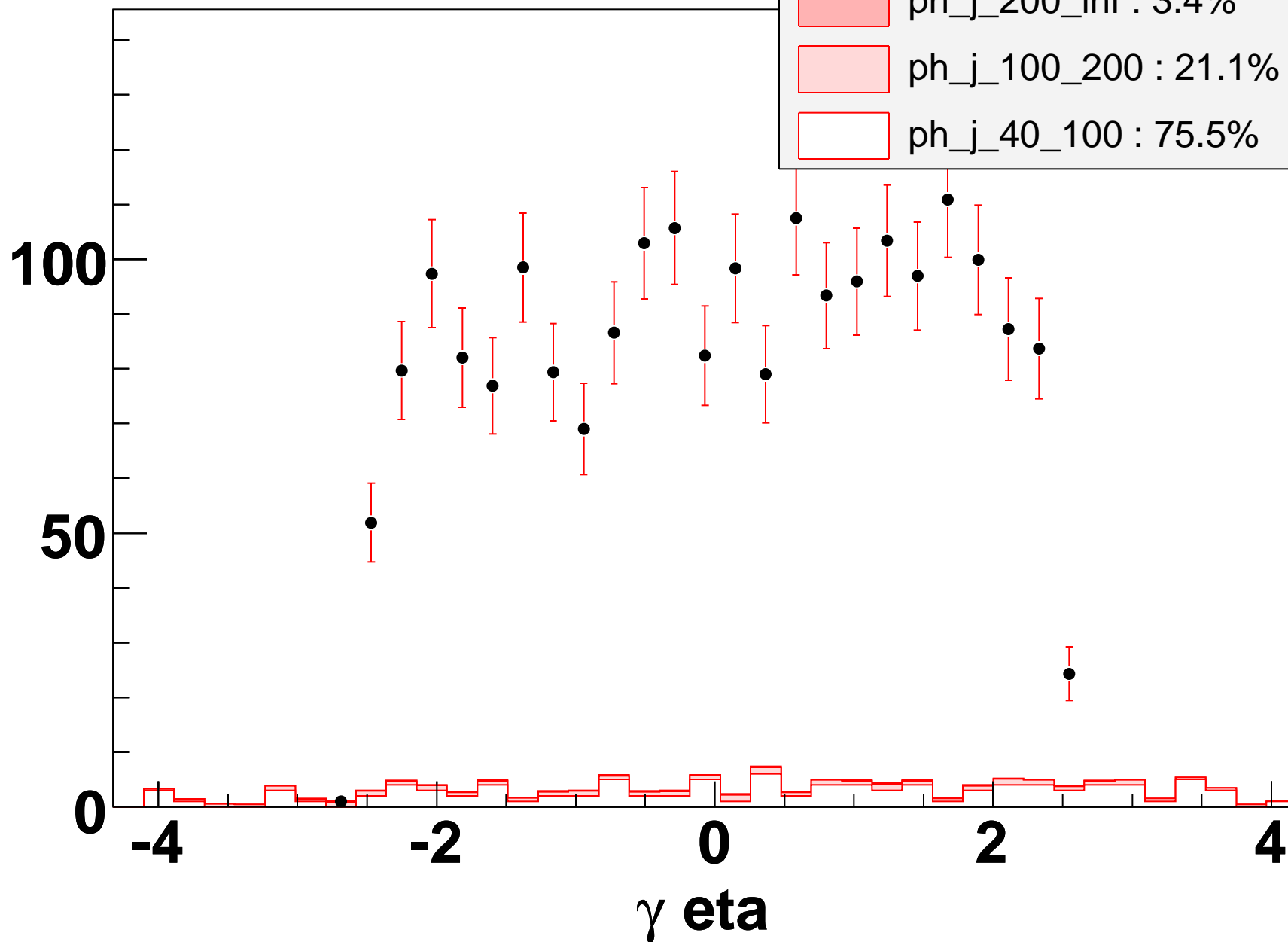


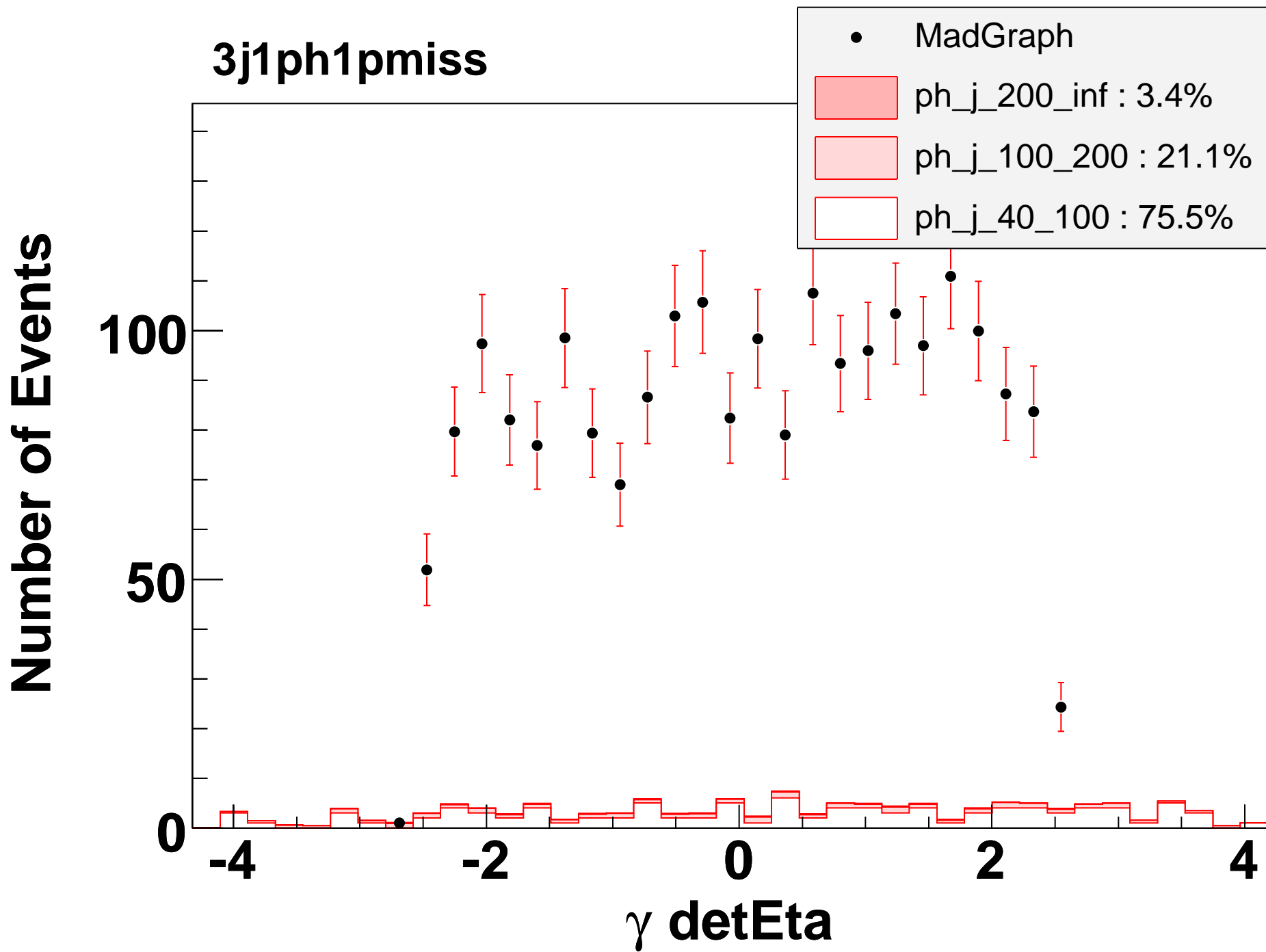




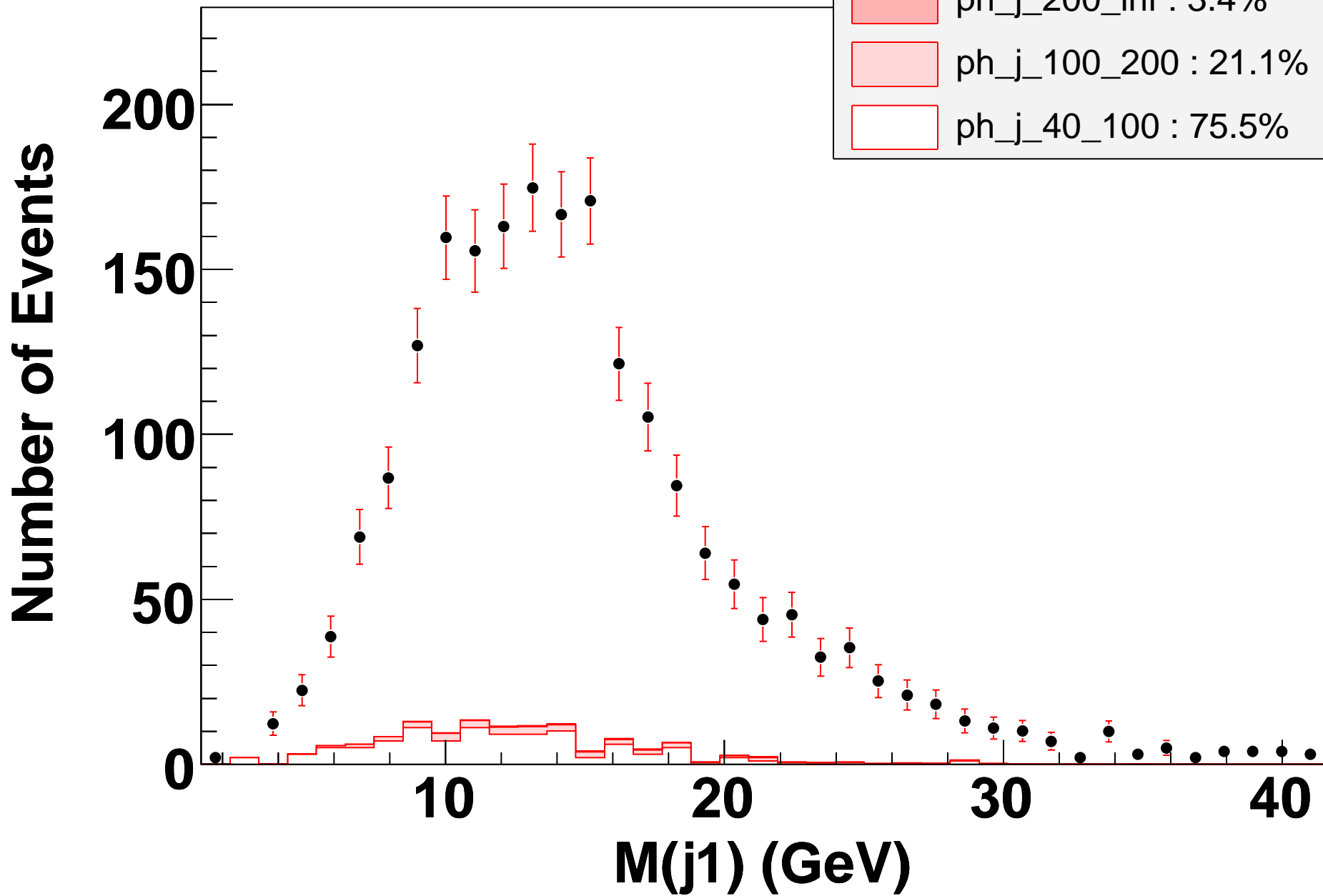
3j1ph1pmiss

Number of Events





3j1ph1pmiss



3j1ph1pmiss

Number of Events

150

100

50

0

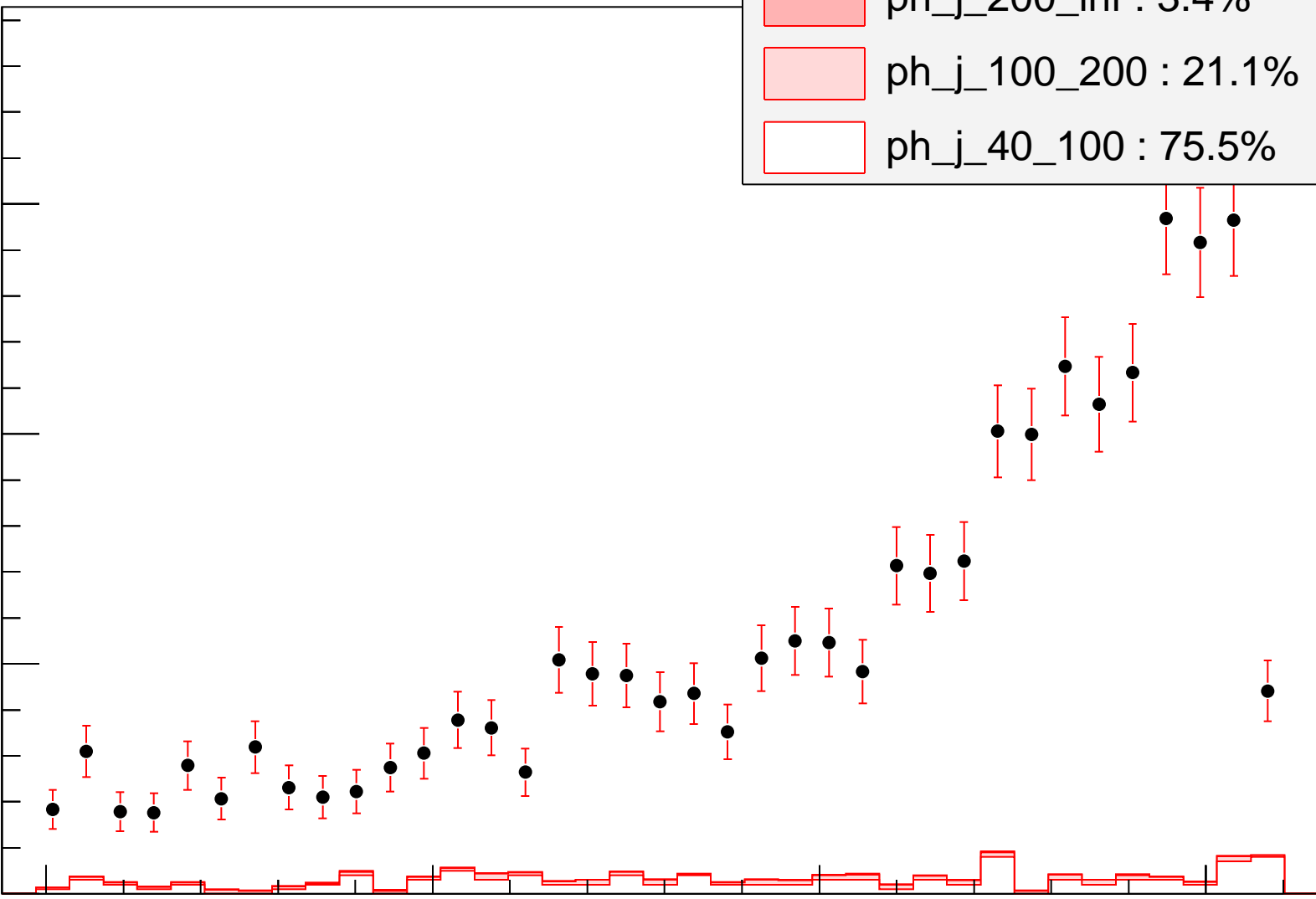
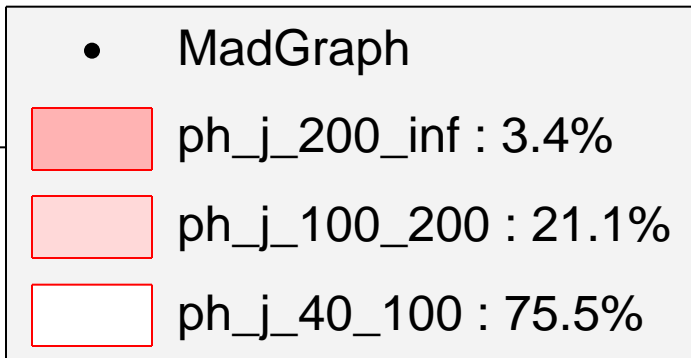
0

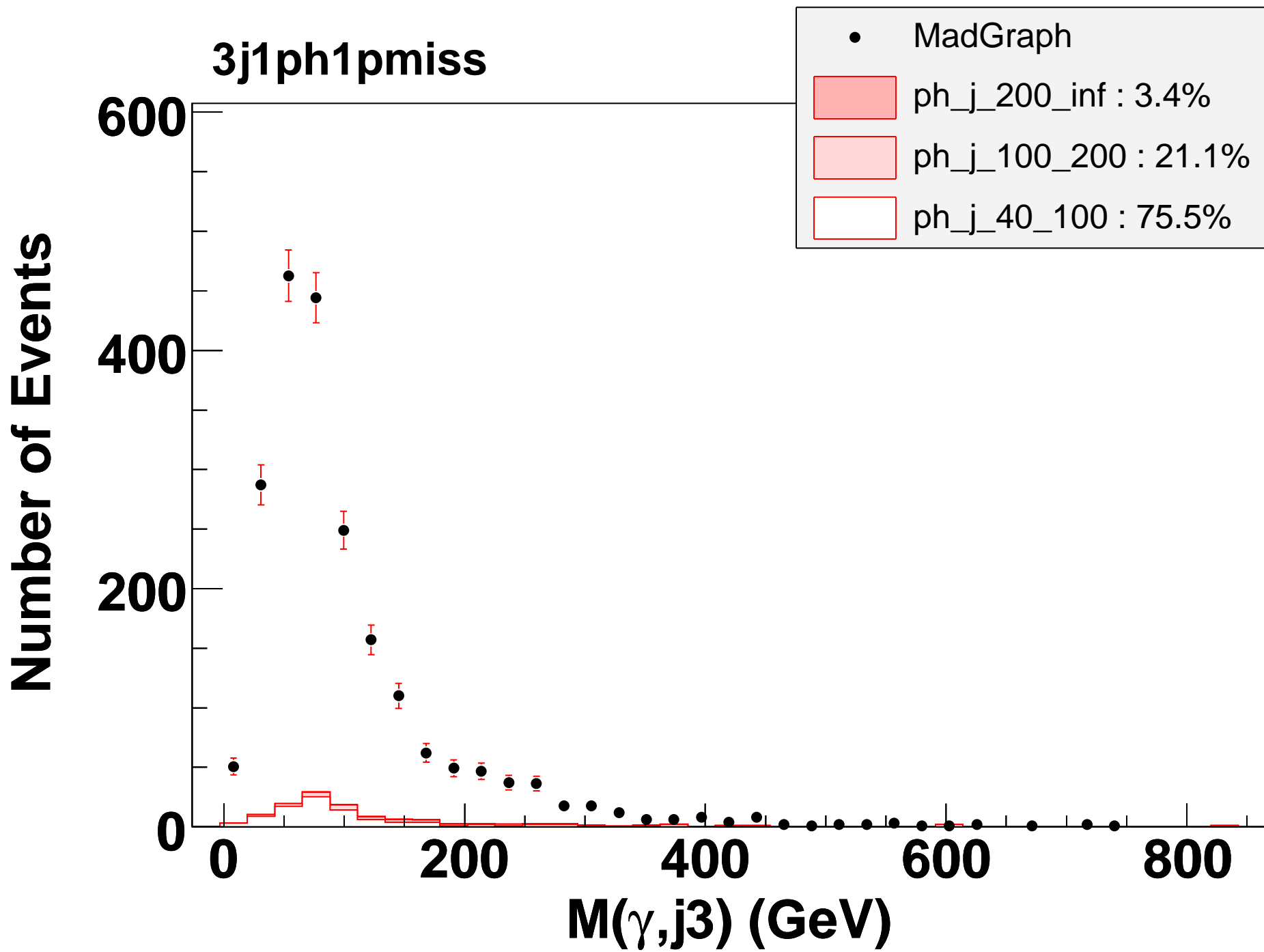
1

2

3

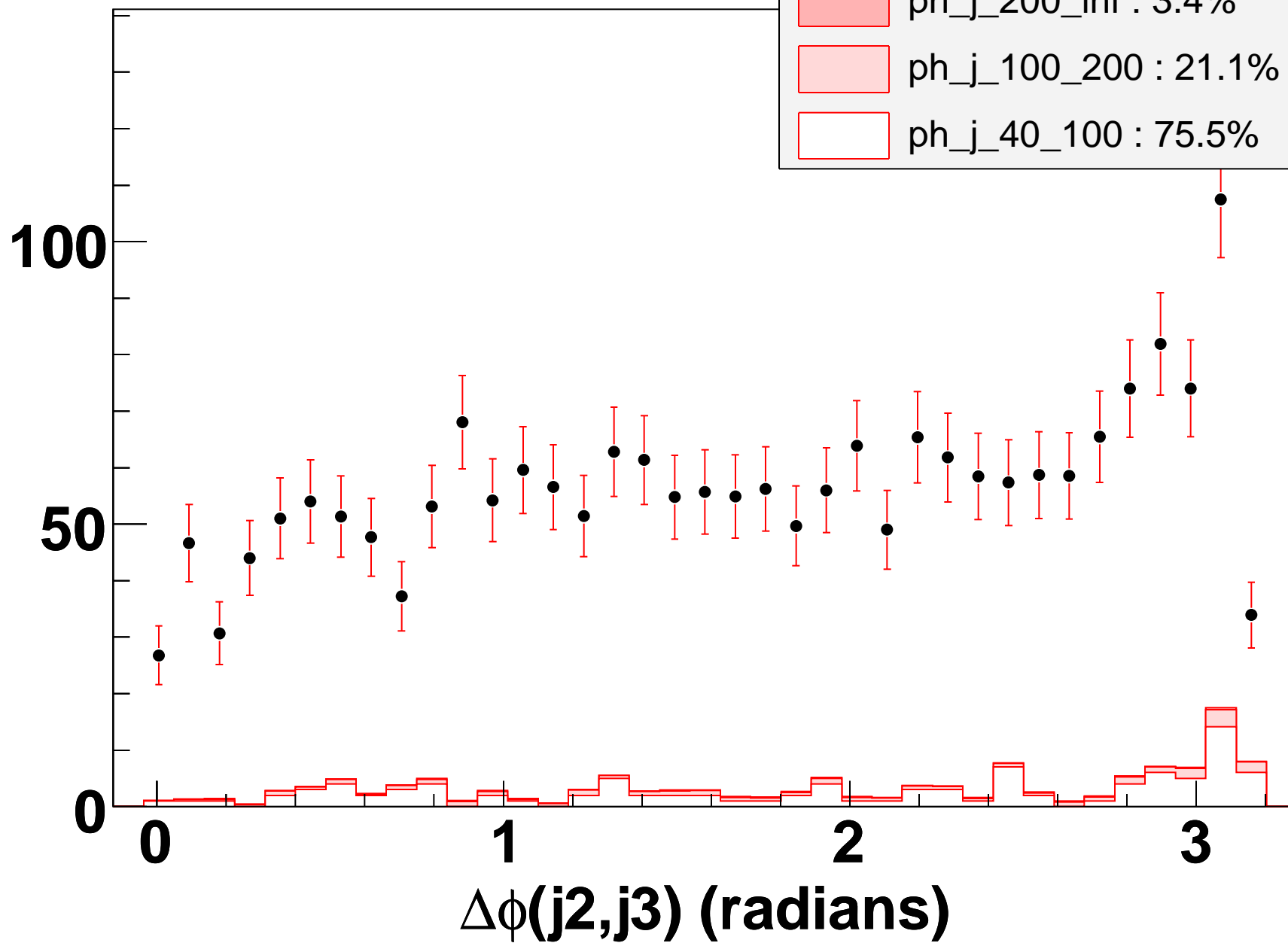
$\Delta\phi(j1,j2)$ (radians)





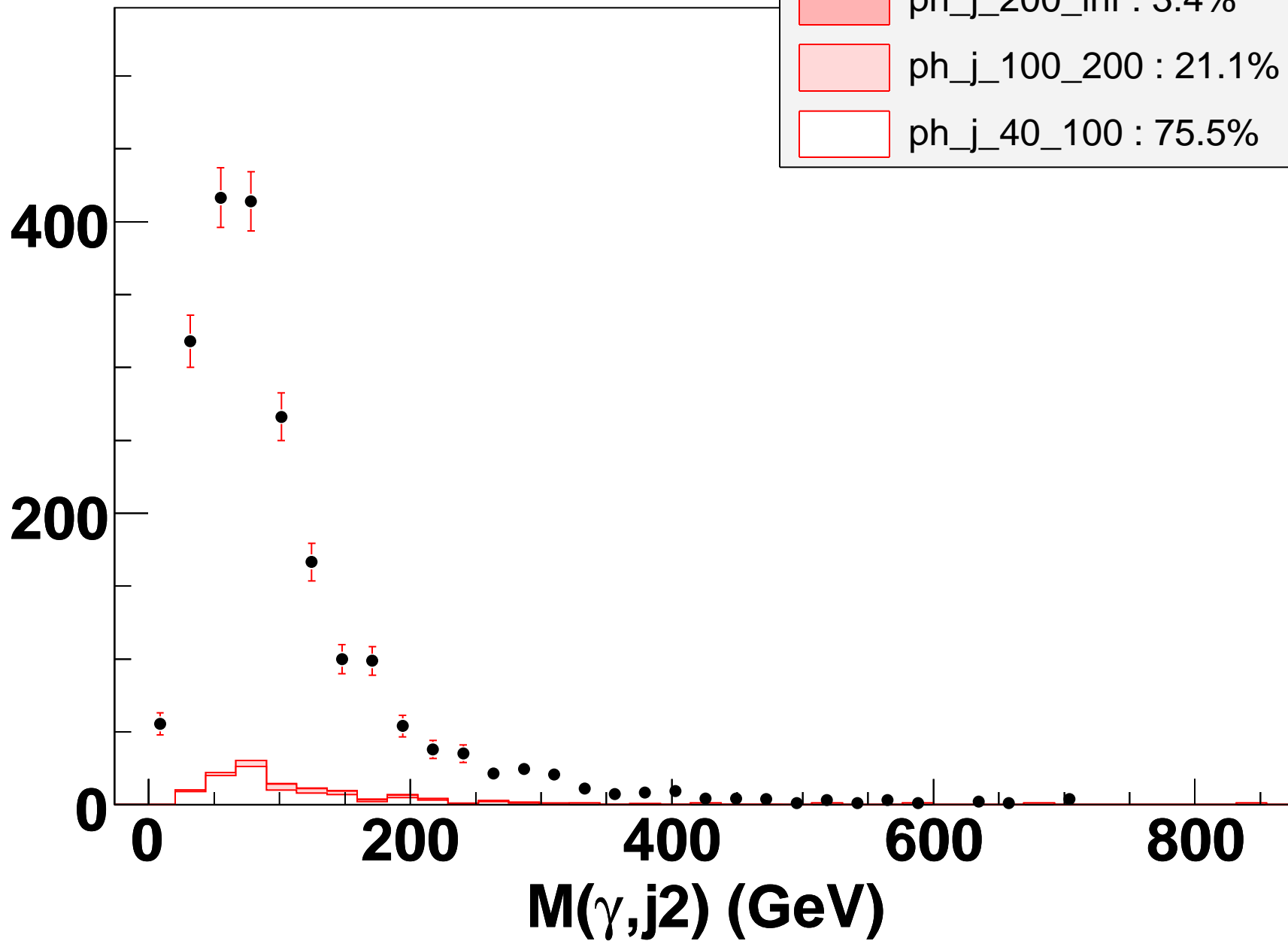
3j1ph1pmiss

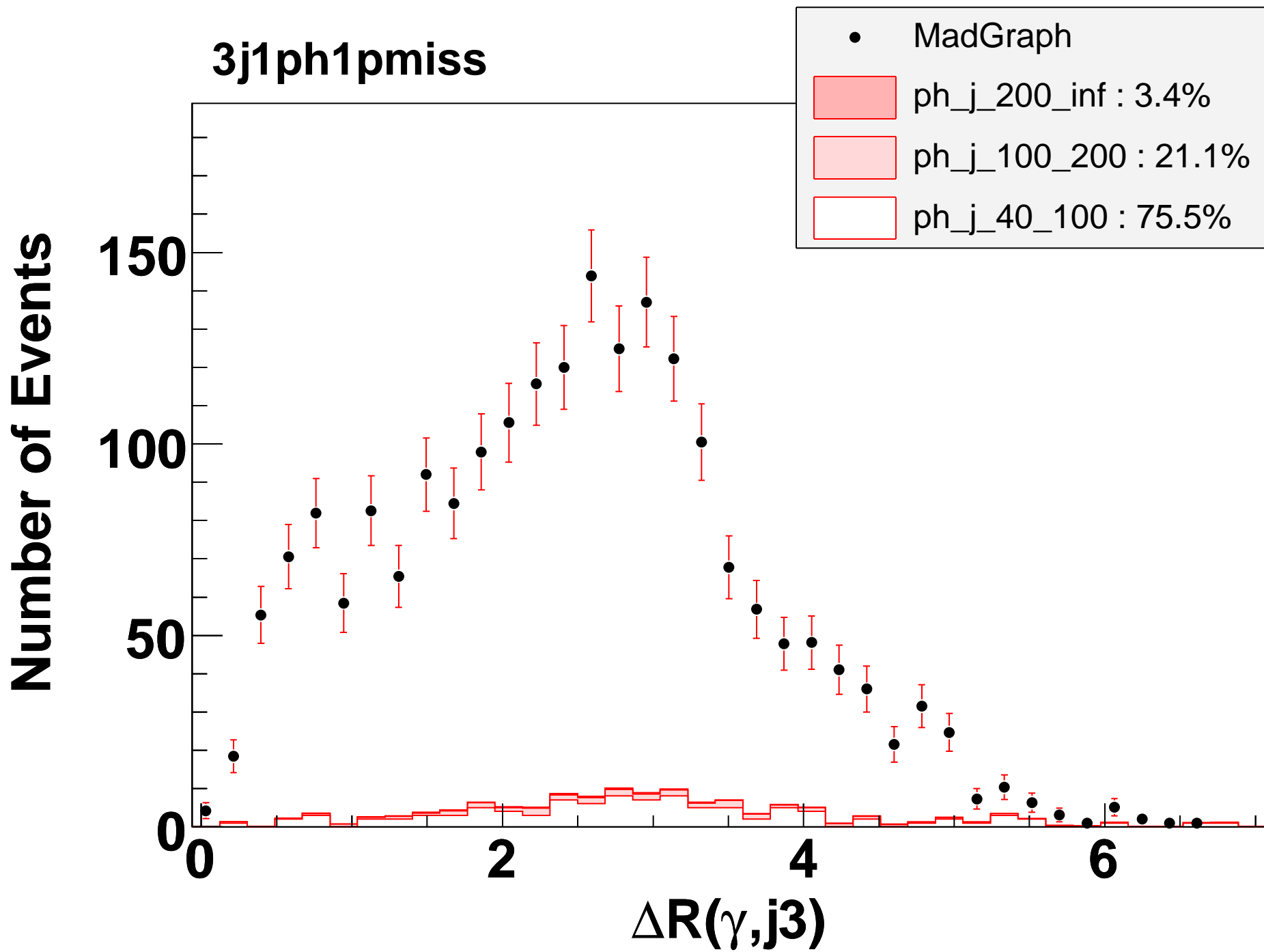
Number of Events



3j1ph1pmiss

Number of Events





3j1ph1pmiss

Number of Events

150

100

50

0

2

4

6

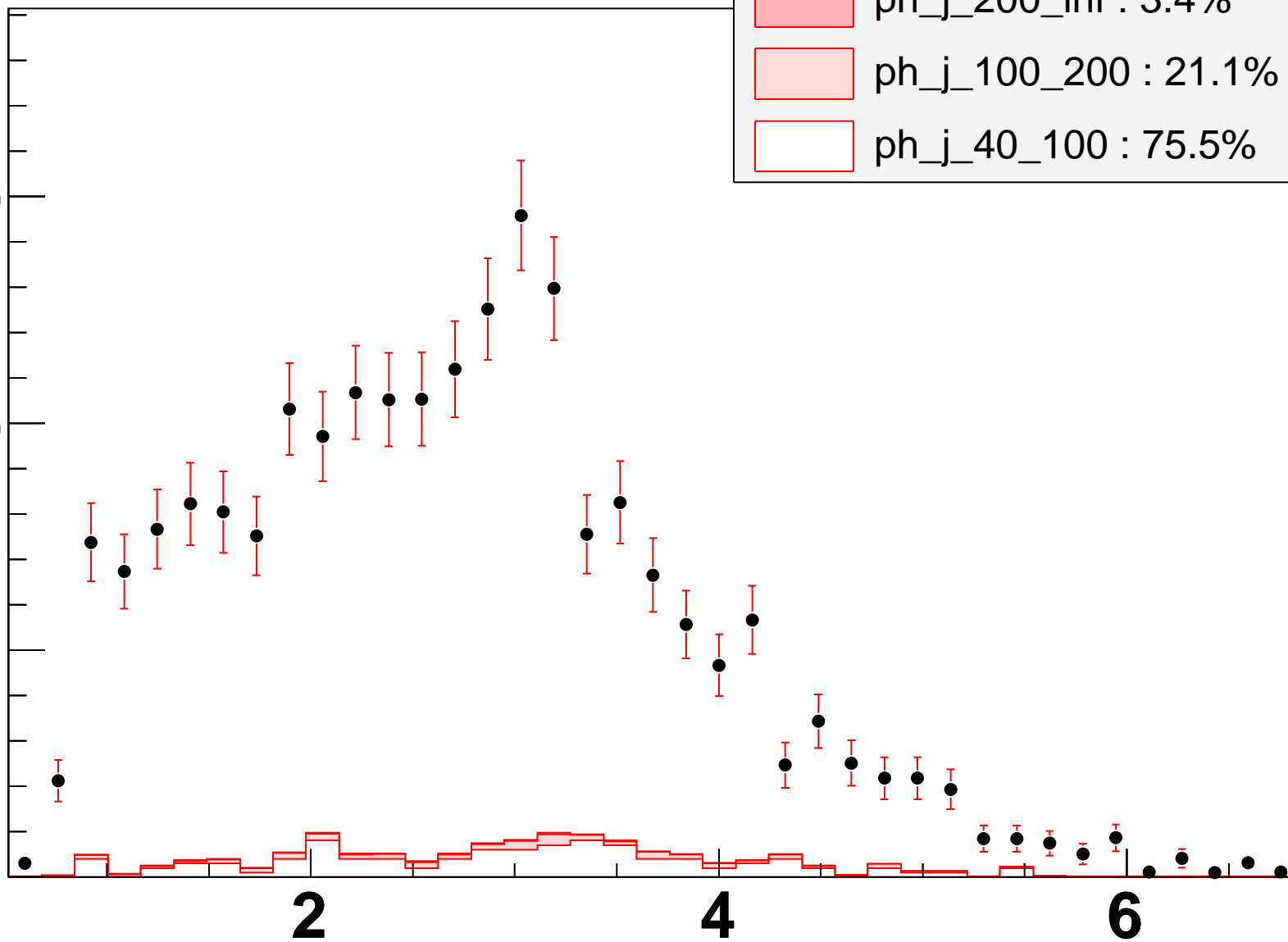
$\Delta R(j2,j3)$

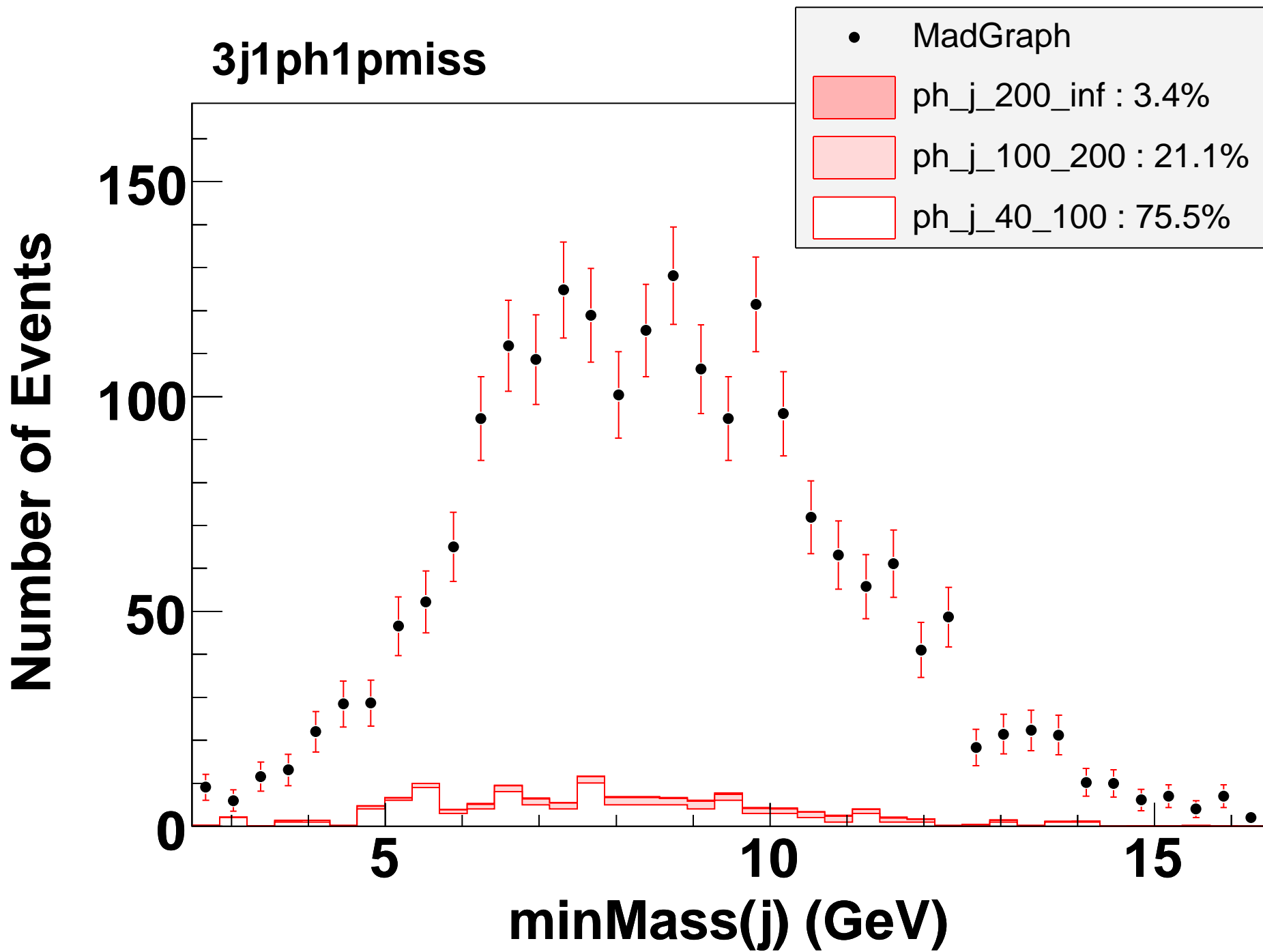
• MadGraph

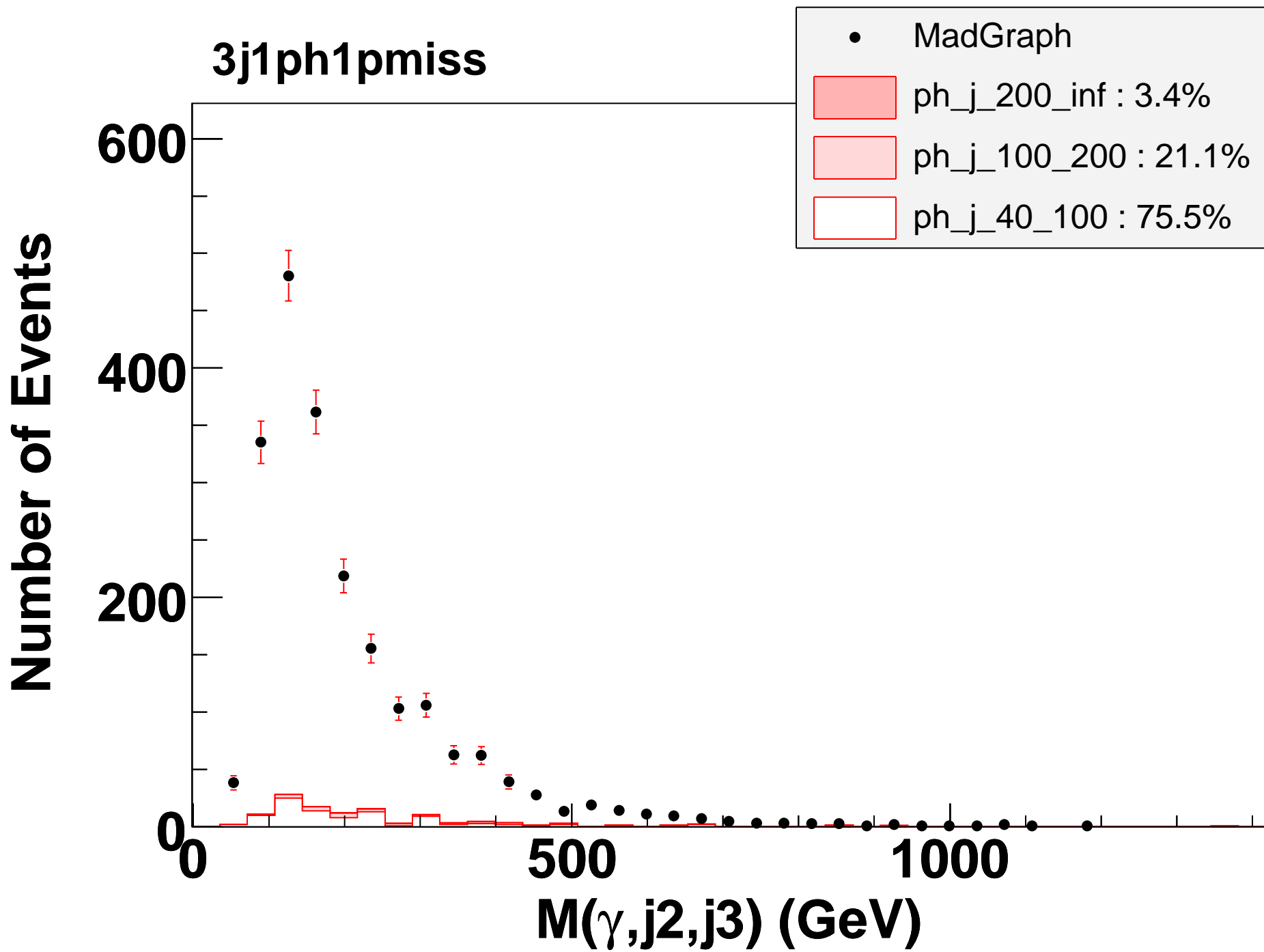
ph_j_200_inf : 3.4%

ph_j_100_200 : 21.1%

ph_j_40_100 : 75.5%







3j1ph1pmiss

Number of Events

200

150

100

50

0

200

300

400

500

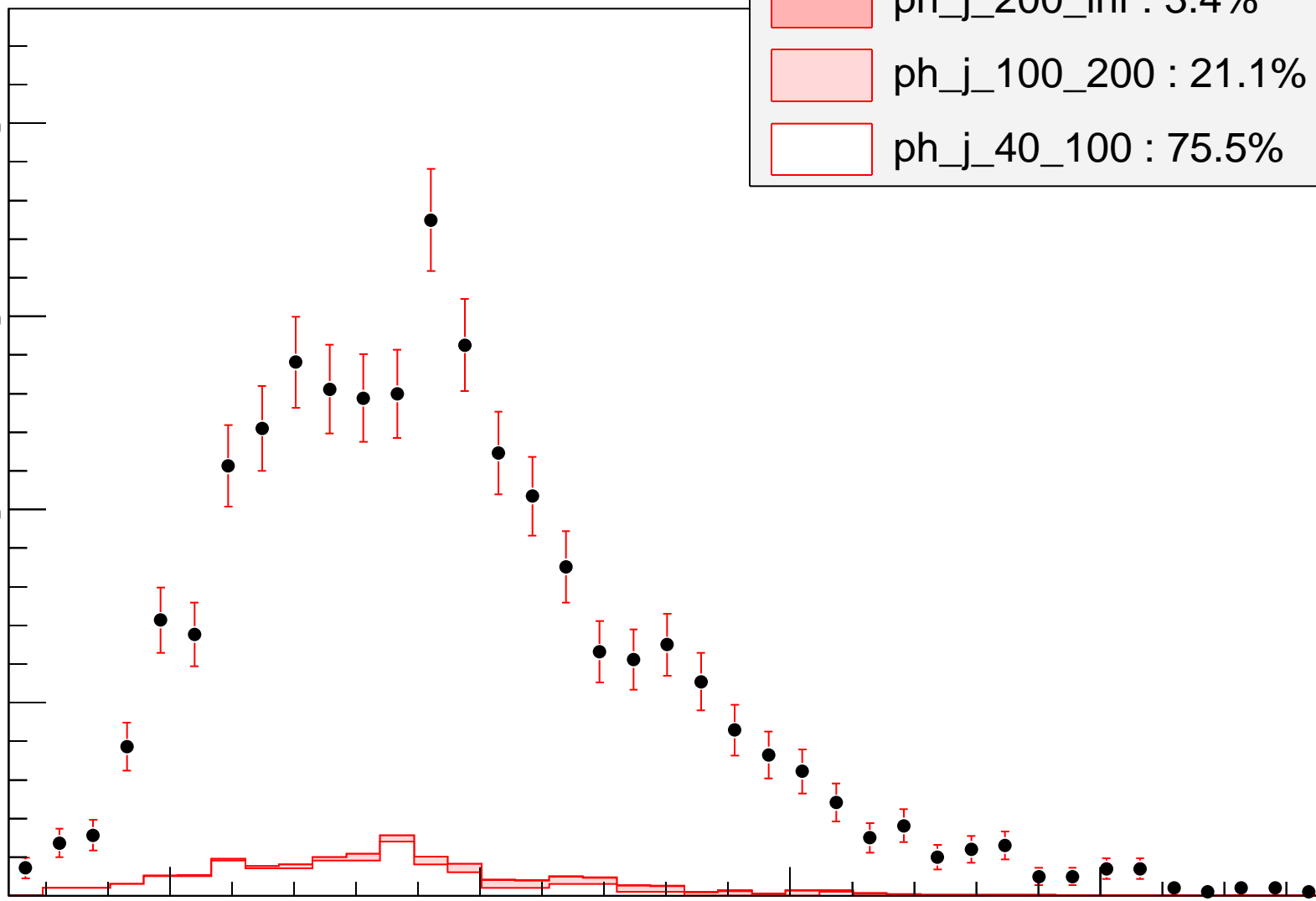
sumPt (GeV)

• MadGraph

ph_j_200_inf : 3.4%

ph_j_100_200 : 21.1%

ph_j_40_100 : 75.5%



3j1ph1pmiss

Number of Events

400

200

0

30

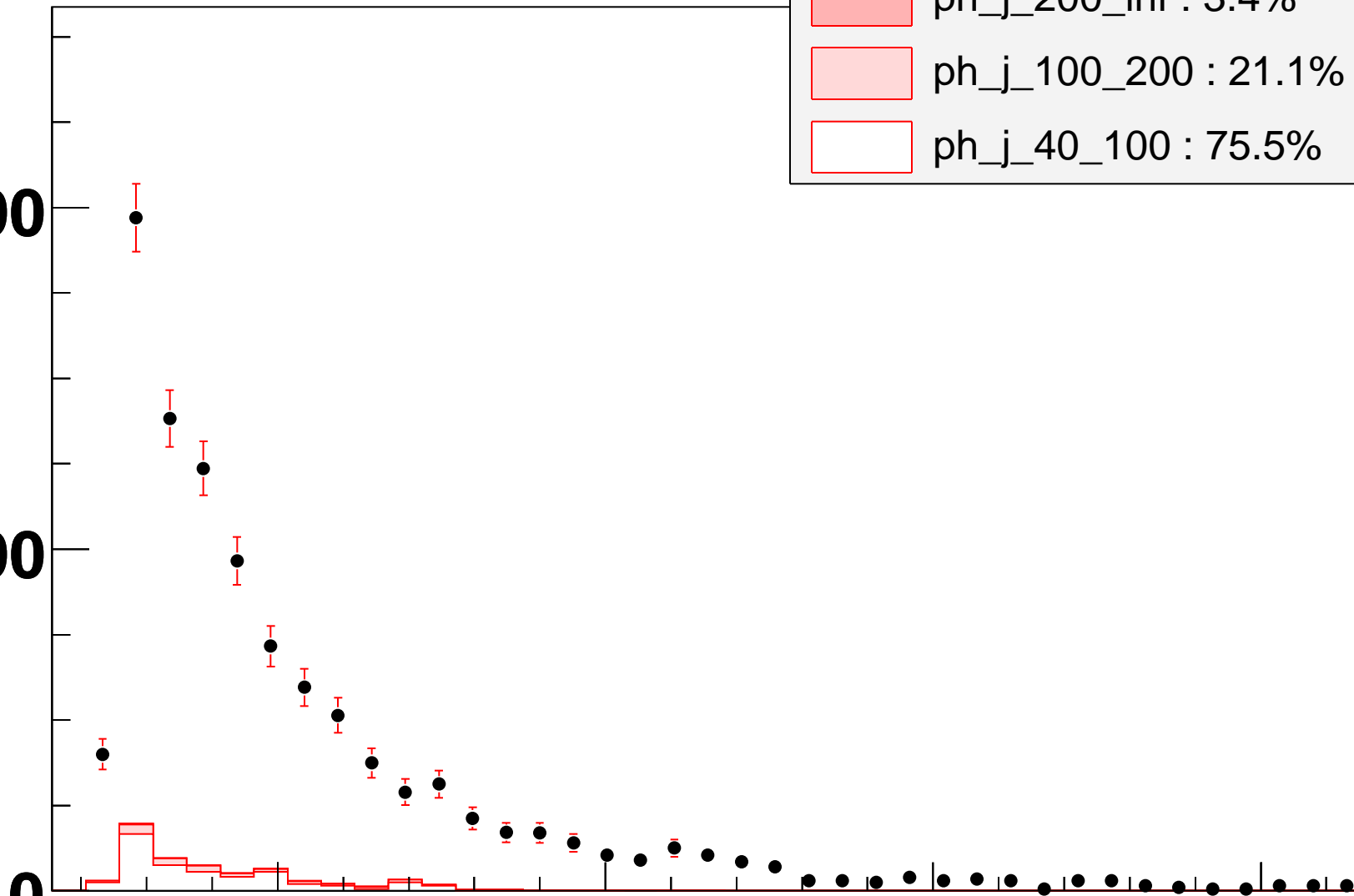
j3 p_T (GeV)

• MadGraph

ph_j_200_inf : 3.4%

ph_j_100_200 : 21.1%

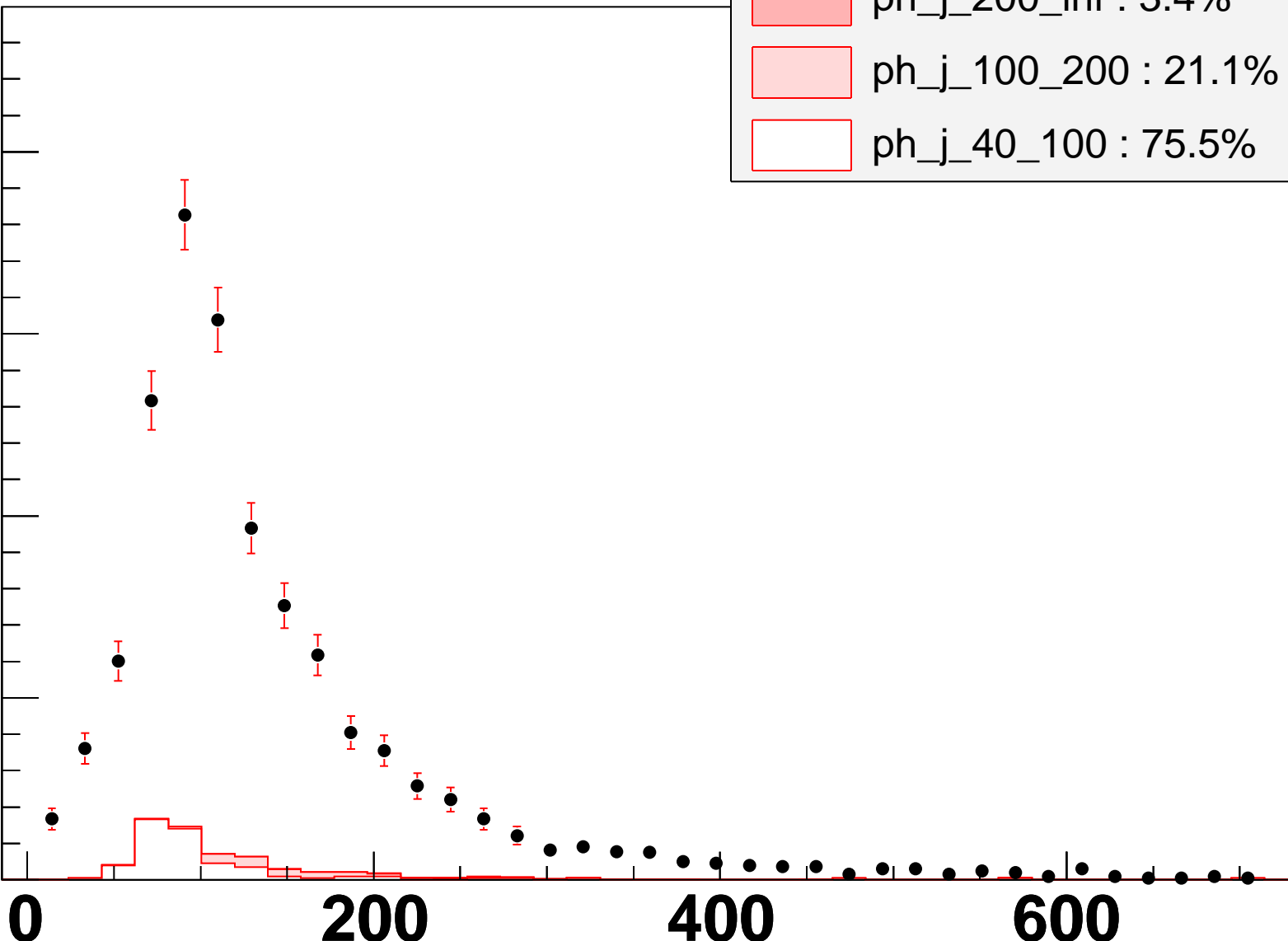
ph_j_40_100 : 75.5%



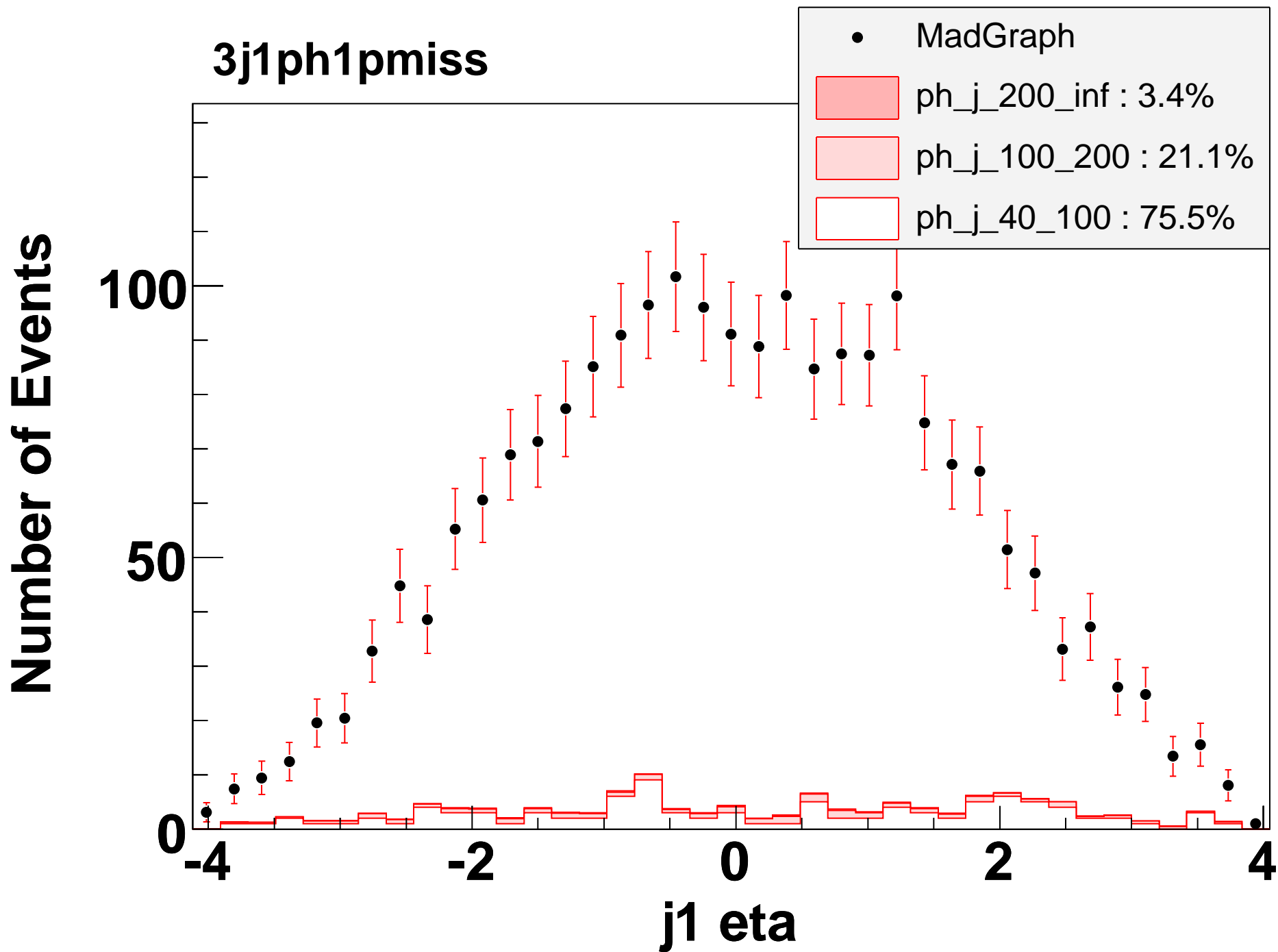
3j1ph1pmiss

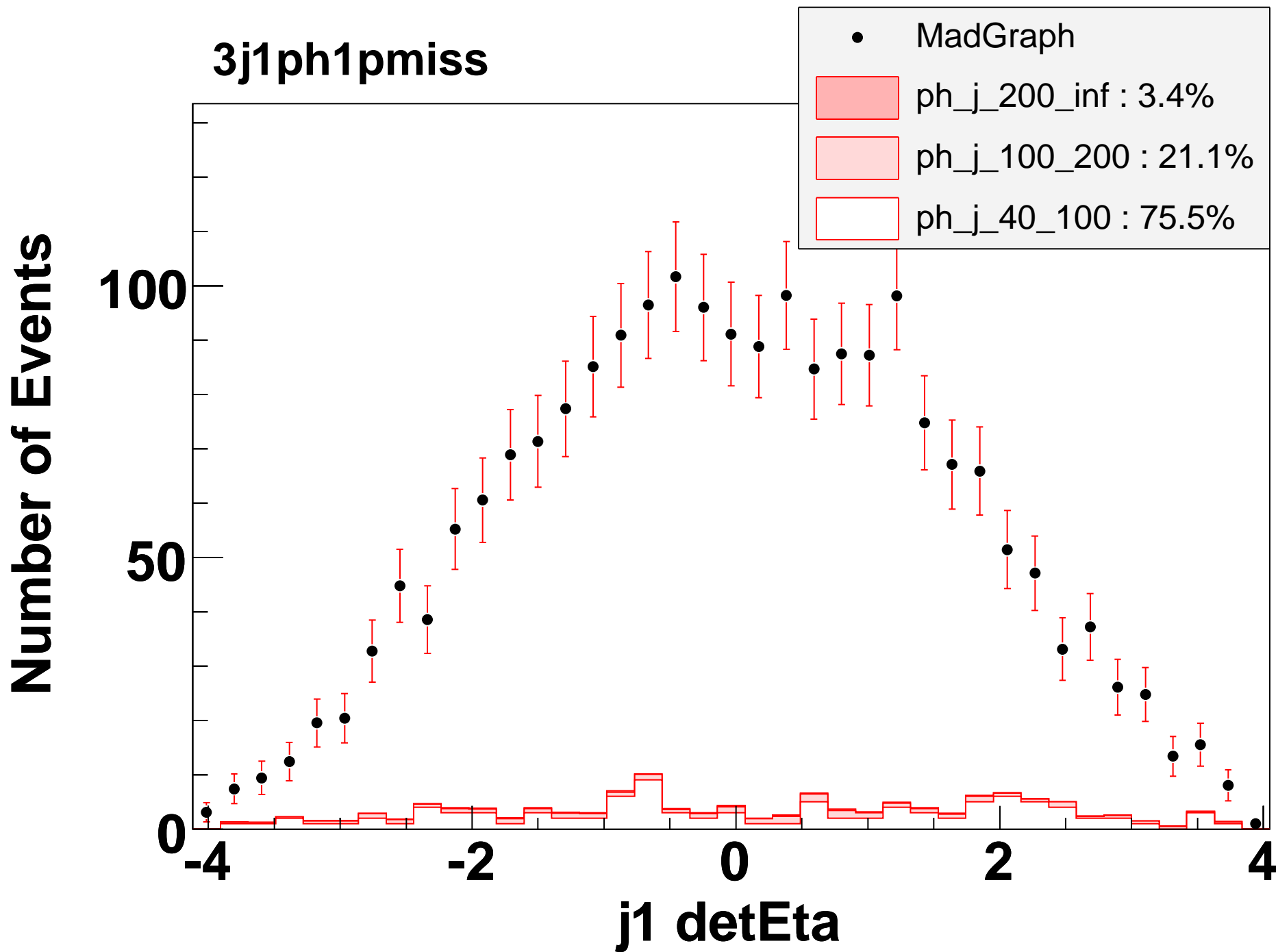
Number of Events

400
300
200
100
0



$M(\gamma, j1)$ (GeV)





3j1ph1pmiss

Number of Events

200

100

0

10

20

30

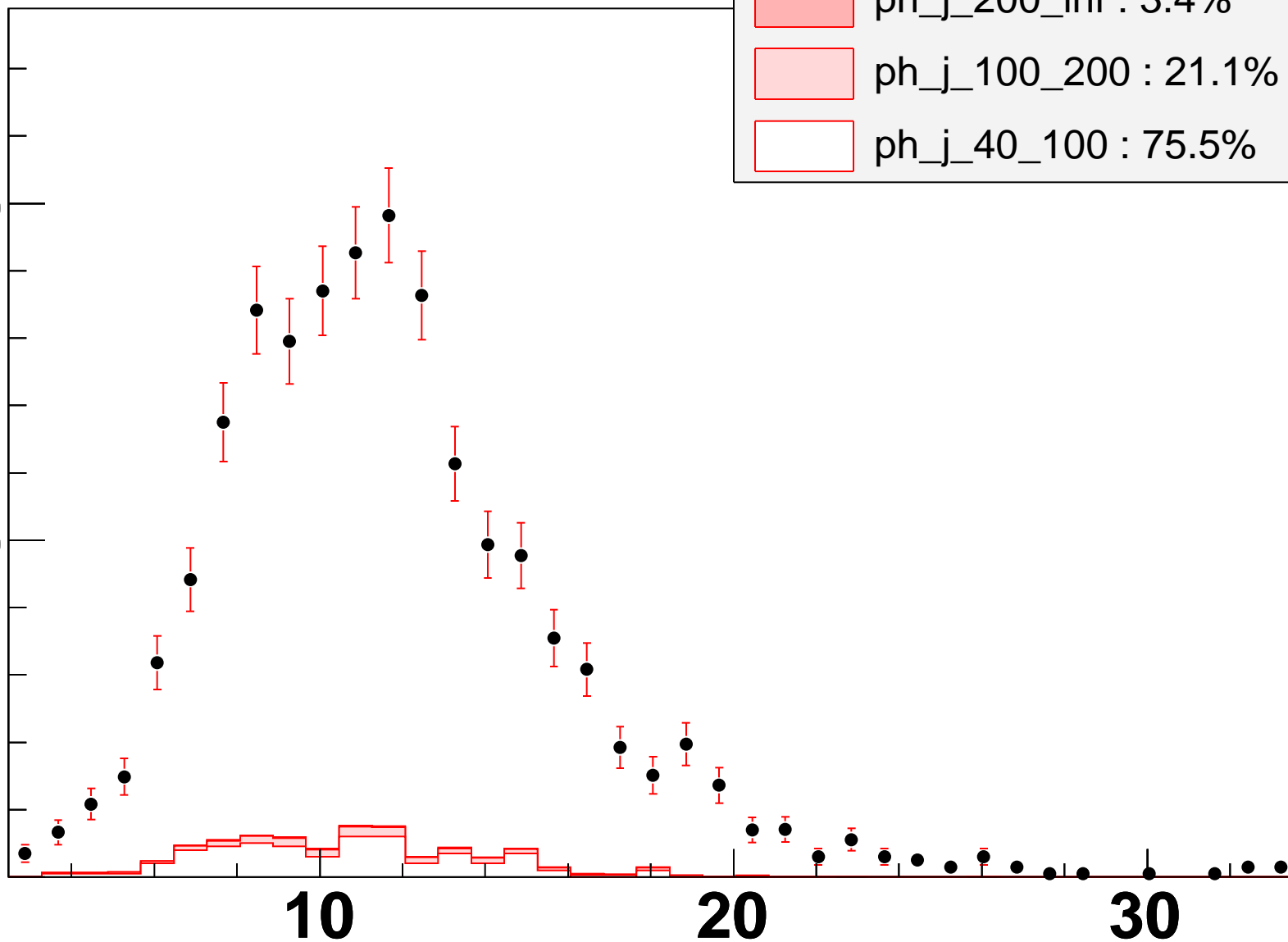
M(j2) (GeV)

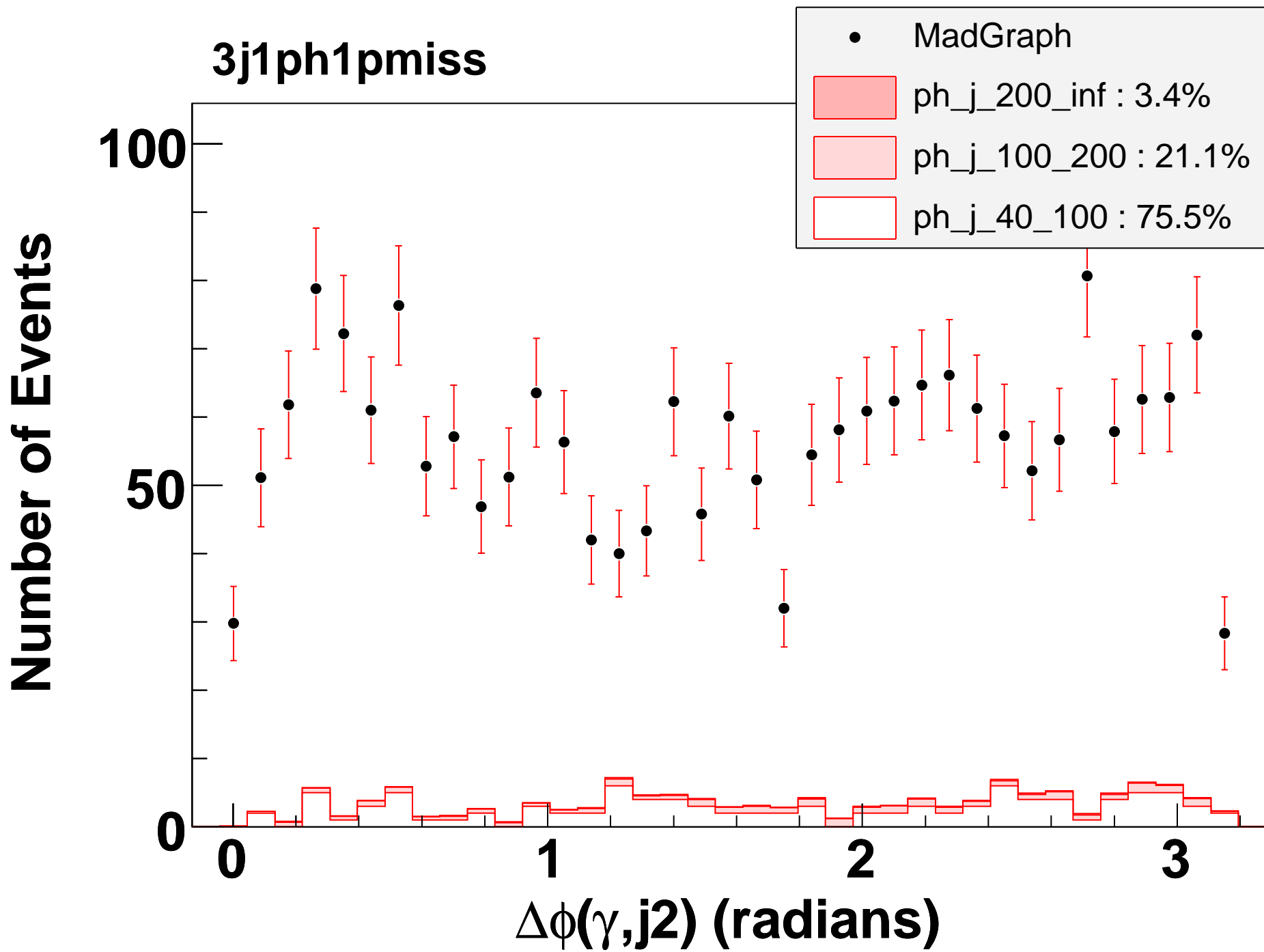
• MadGraph

ph_j_200_inf : 3.4%

ph_j_100_200 : 21.1%

ph_j_40_100 : 75.5%





3j1ph1pmiss

Number of Events

200

100

0

0

1

2

3

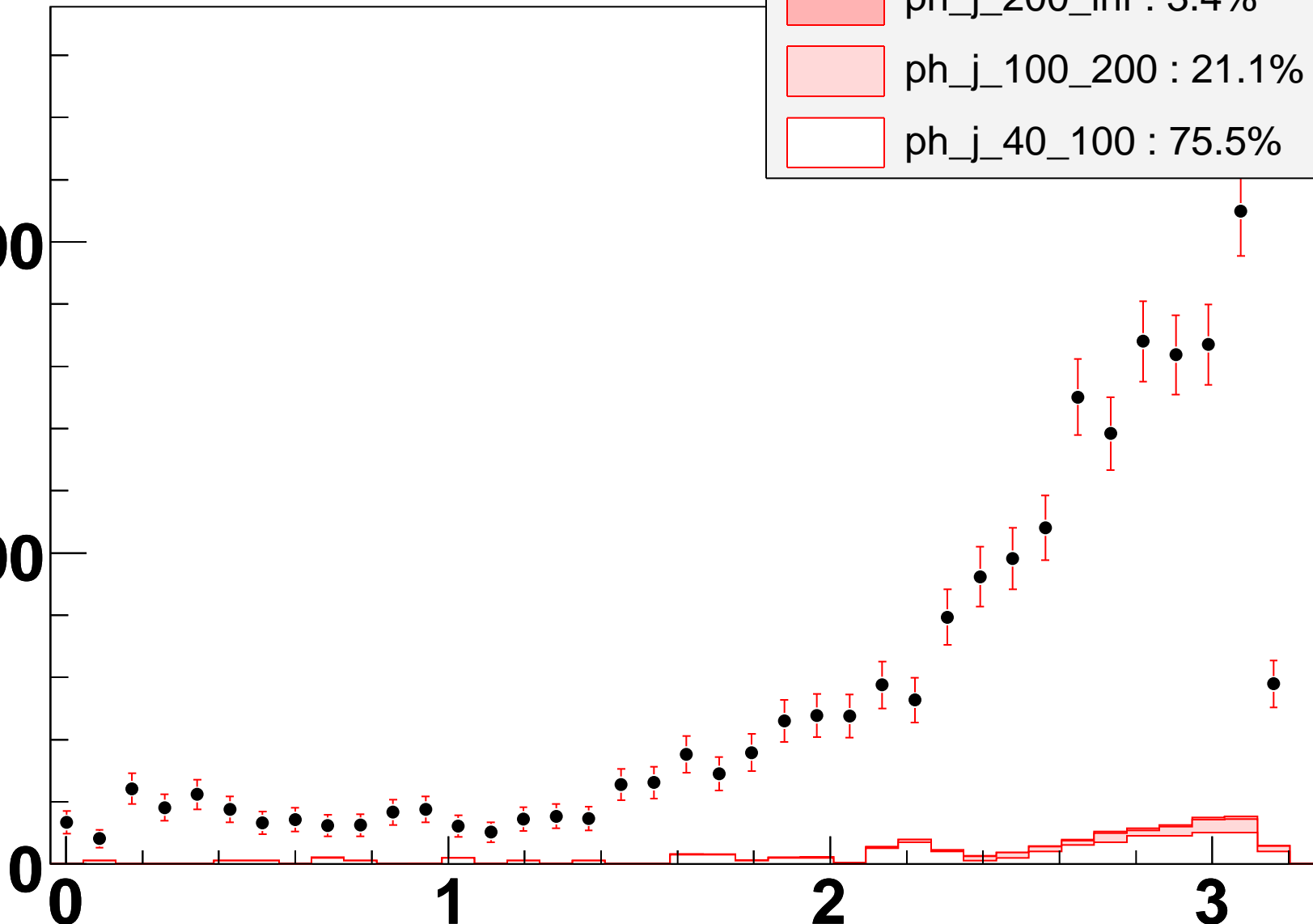
$\Delta\phi(\gamma, j1)$ (radians)

• MadGraph

ph_j_200_inf : 3.4%

ph_j_100_200 : 21.1%

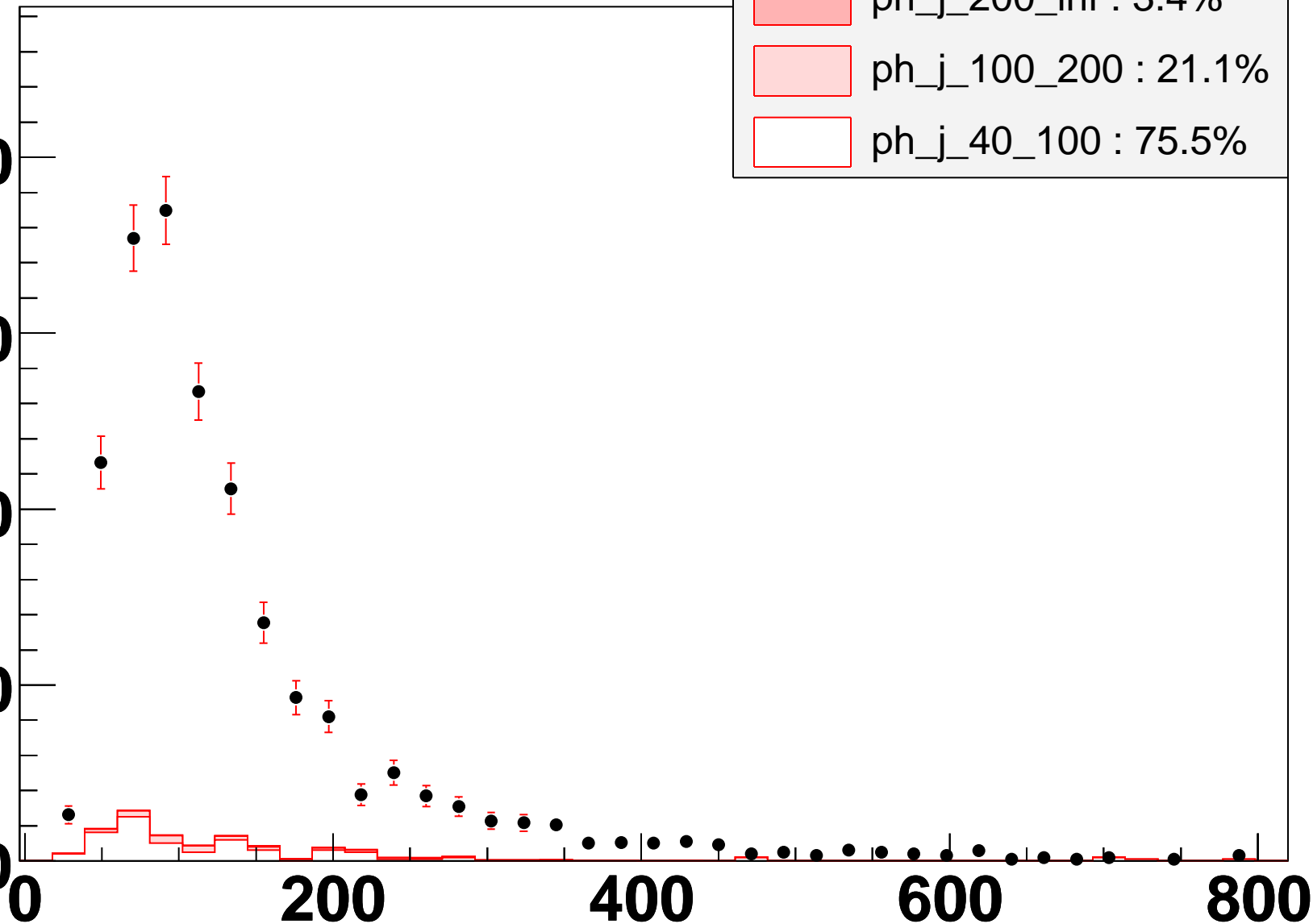
ph_j_40_100 : 75.5%



3j1ph1pmiss

Number of Events

400
300
200
100
0



• MadGraph

ph_j_200_inf : 3.4%

ph_j_100_200 : 21.1%

ph_j_40_100 : 75.5%

$M(j1, j3)$ (GeV)

3j1ph1pmiss

Number of Events

150
100
50
0

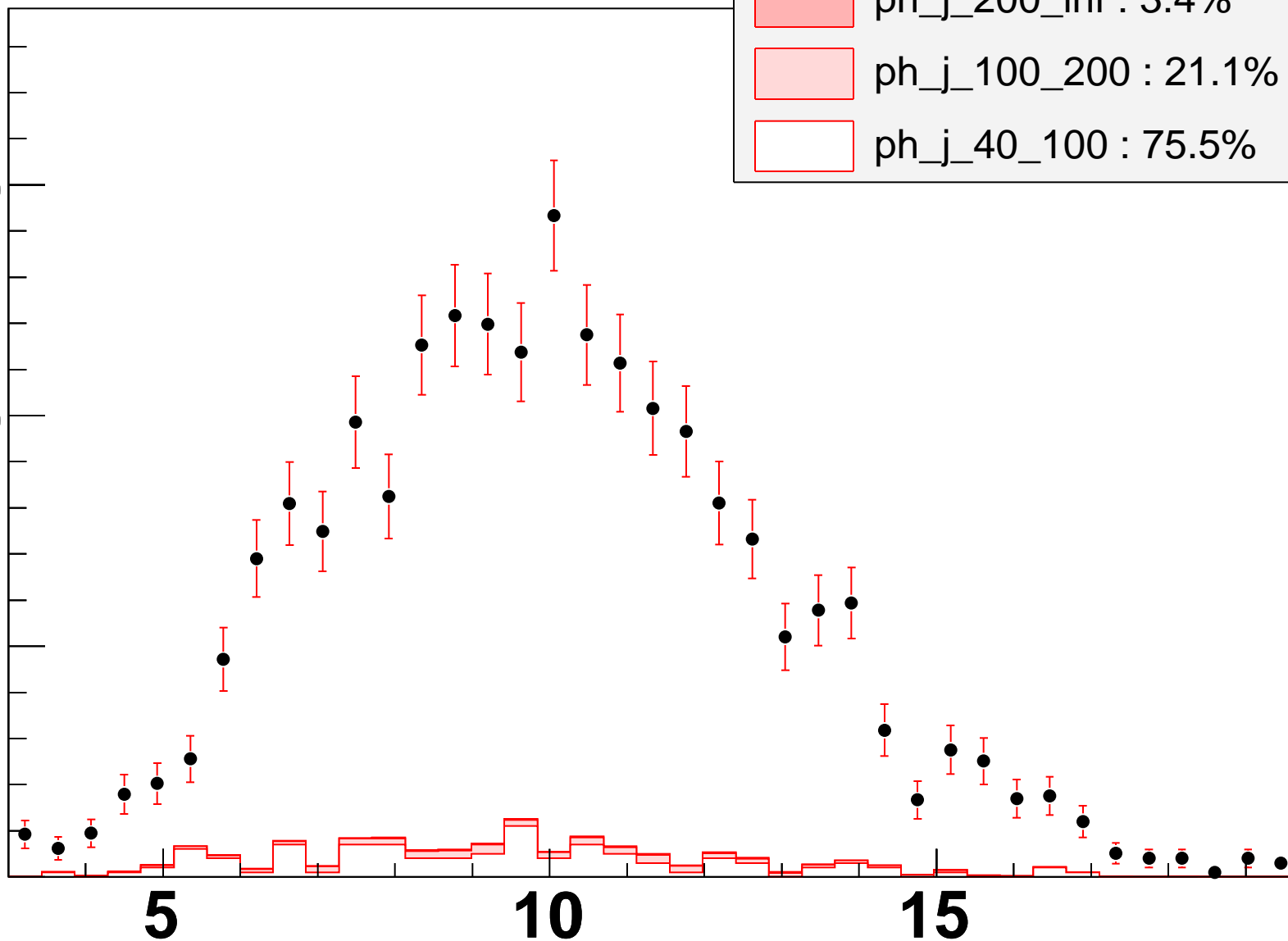
M(j3) (GeV)

• MadGraph

ph_j_200_inf : 3.4%

ph_j_100_200 : 21.1%

ph_j_40_100 : 75.5%



3j1ph1pmiss

Number of Events

200

100

0

2

4

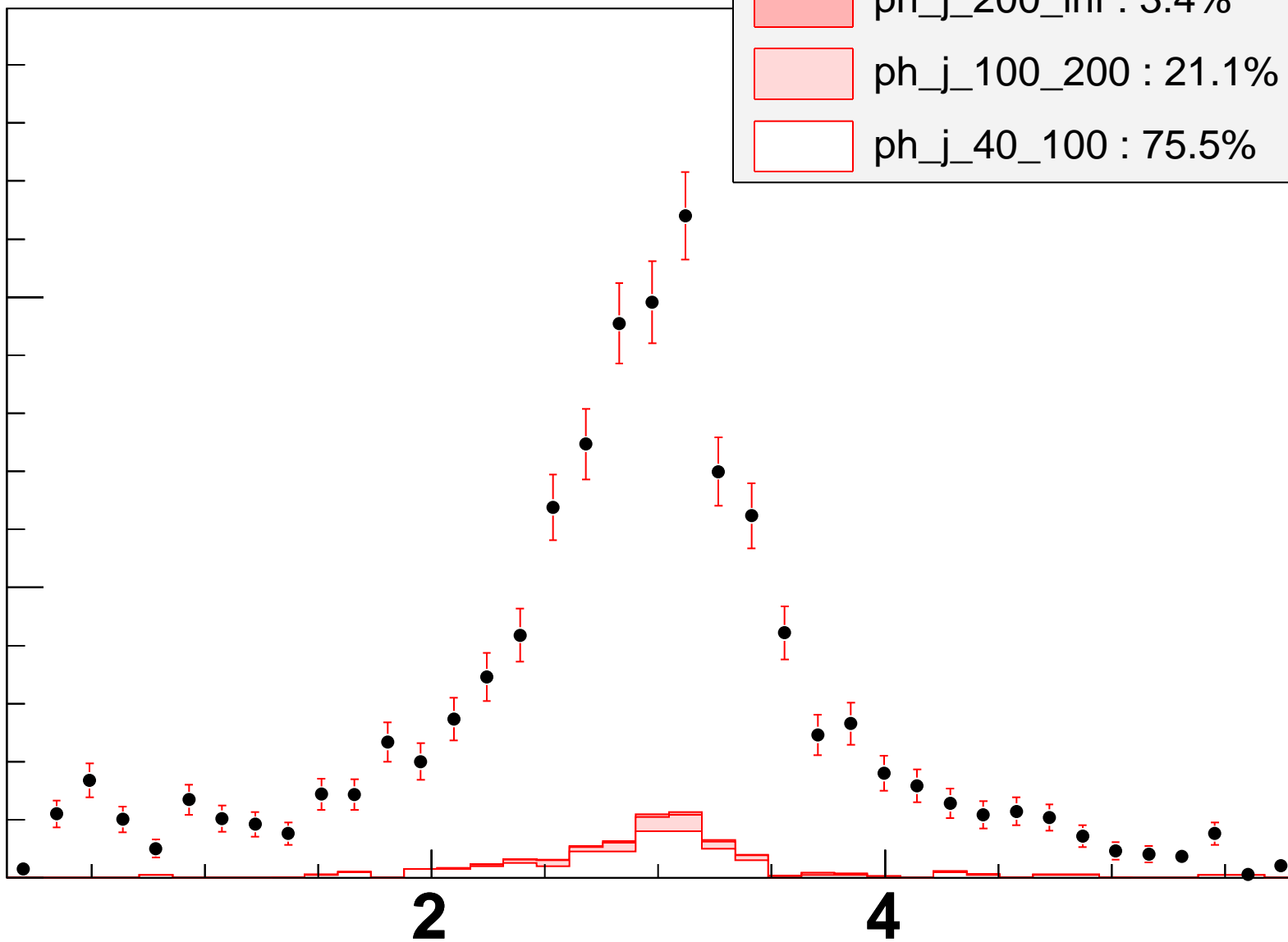
$\Delta R(\gamma, j1)$

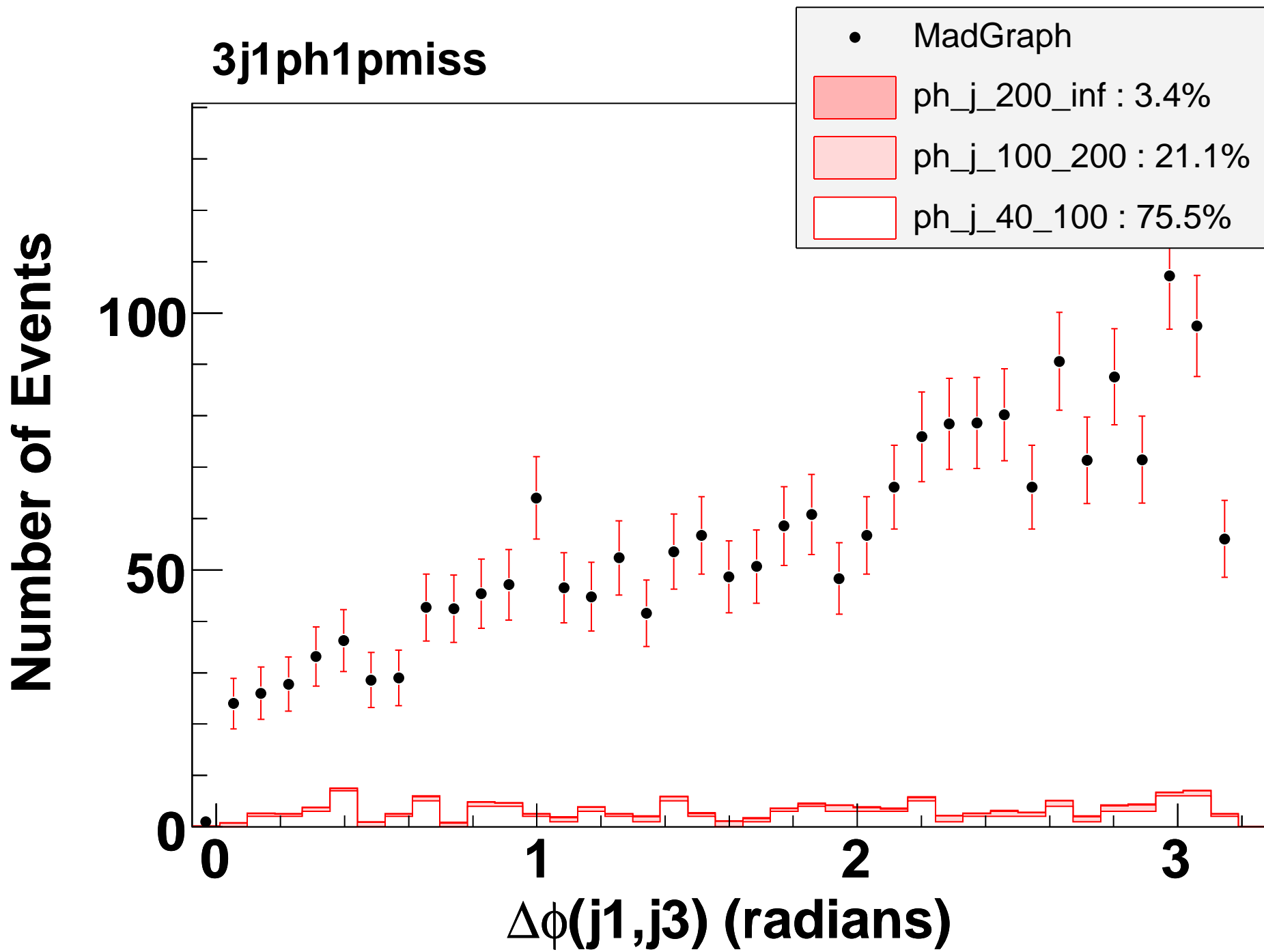
• MadGraph

ph_j_200_inf : 3.4%

ph_j_100_200 : 21.1%

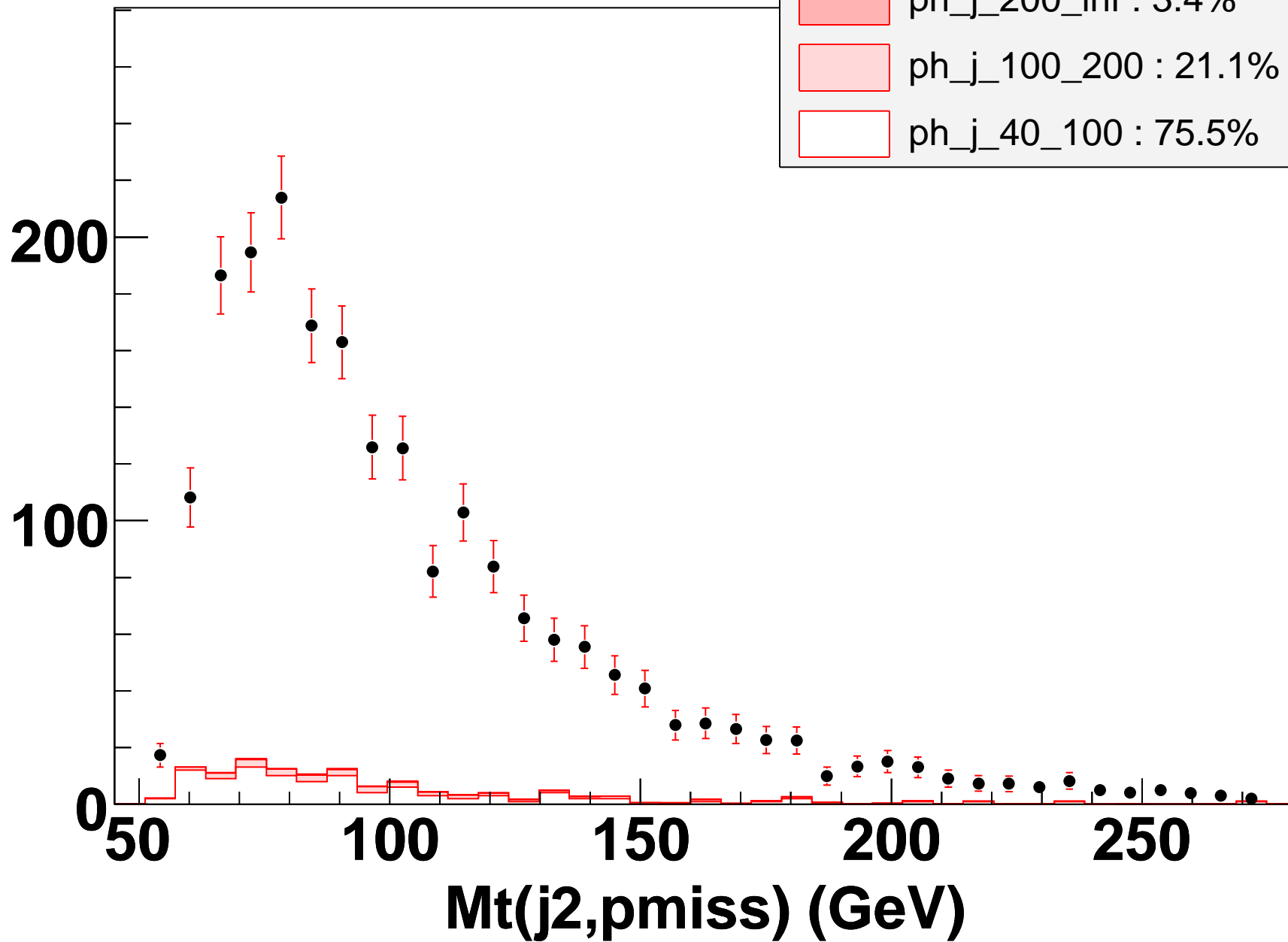
ph_j_40_100 : 75.5%





3j1ph1pmiss

Number of Events



3j1ph1pmiss

Number of Events

400

200

0

50

100

150

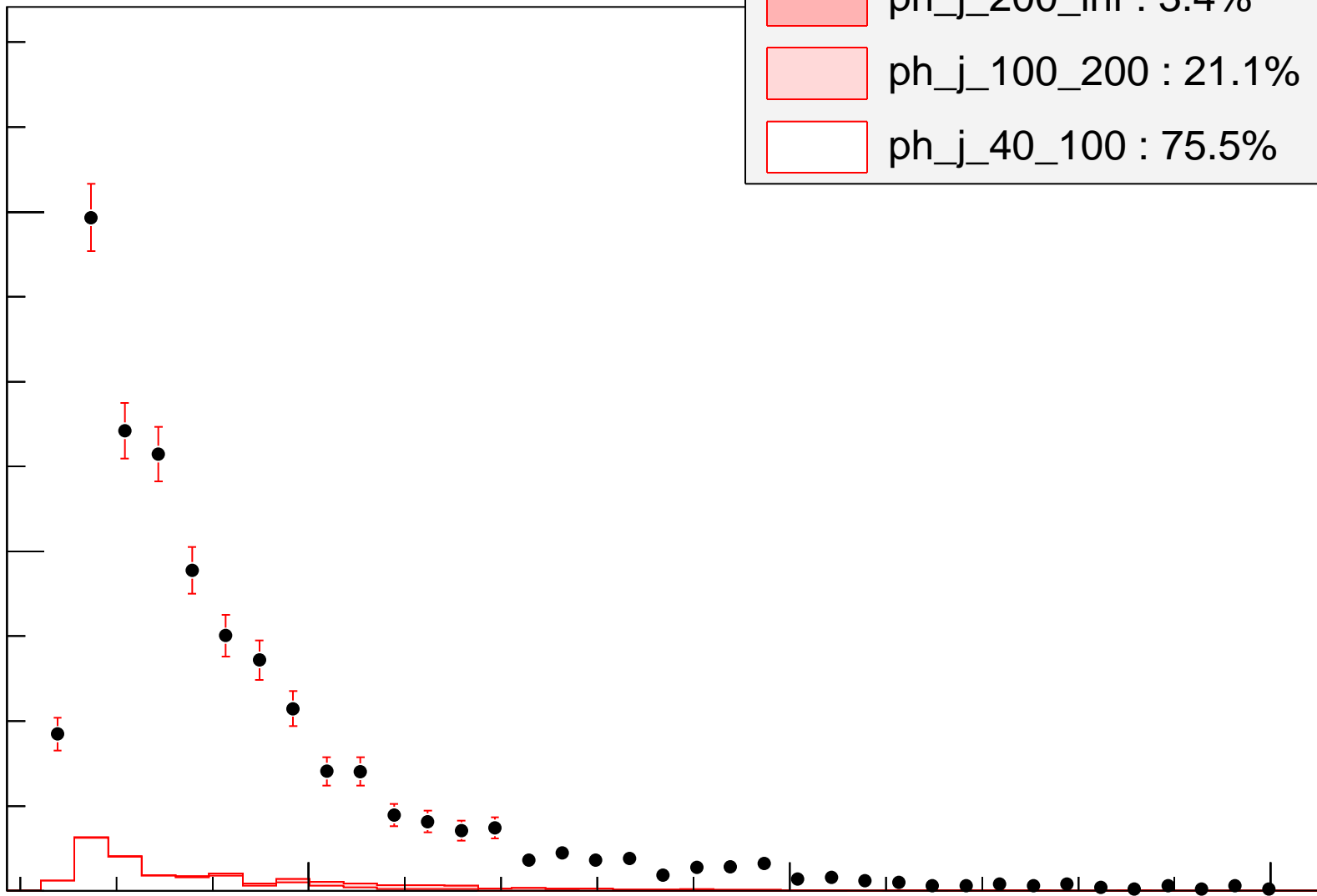
γp_T (GeV)

• MadGraph

ph_j_200_inf : 3.4%

ph_j_100_200 : 21.1%

ph_j_40_100 : 75.5%



3j1ph1pmiss

Number of Events

300

200

100

0

200

400

600

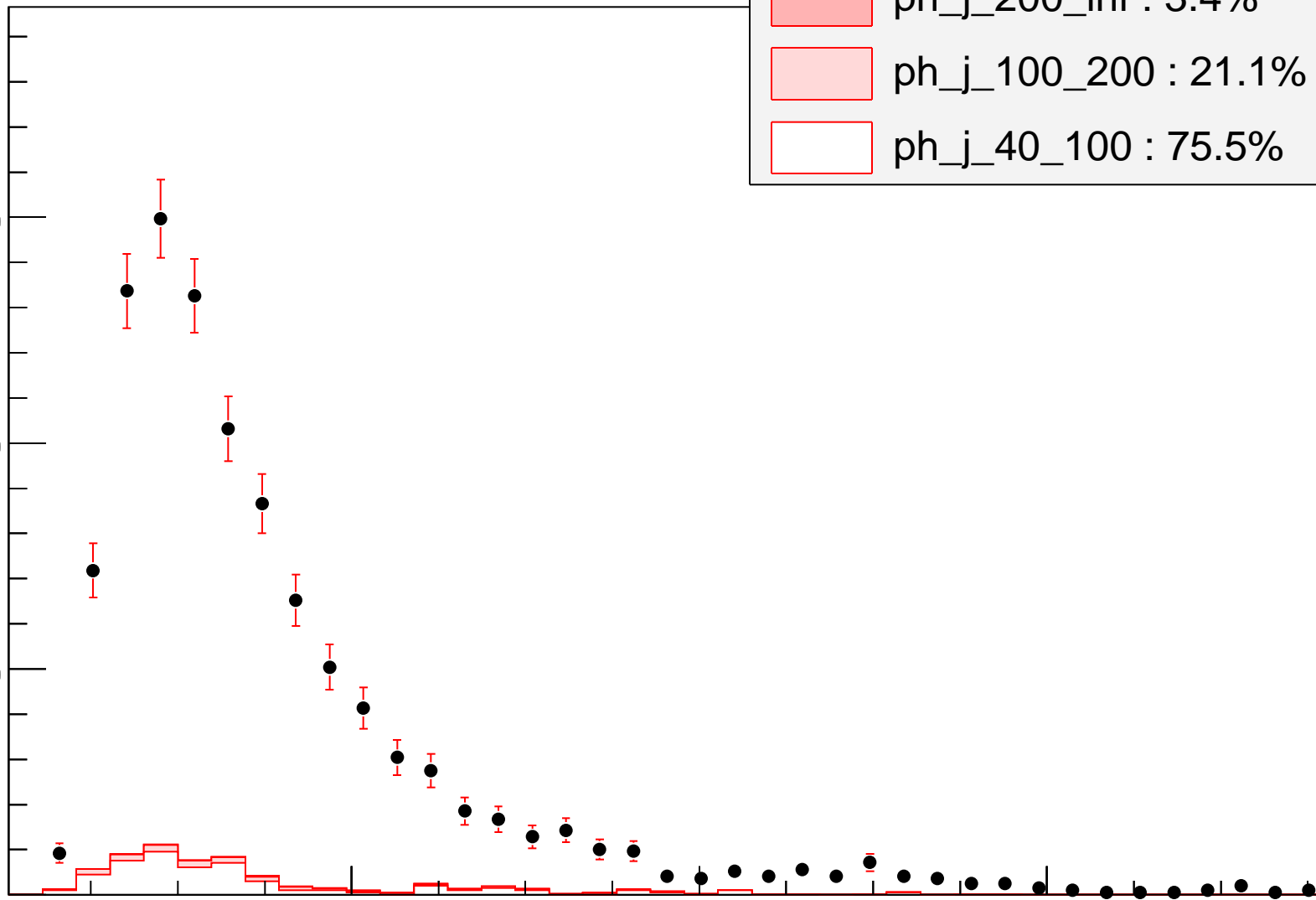
M(j1,j2) (GeV)

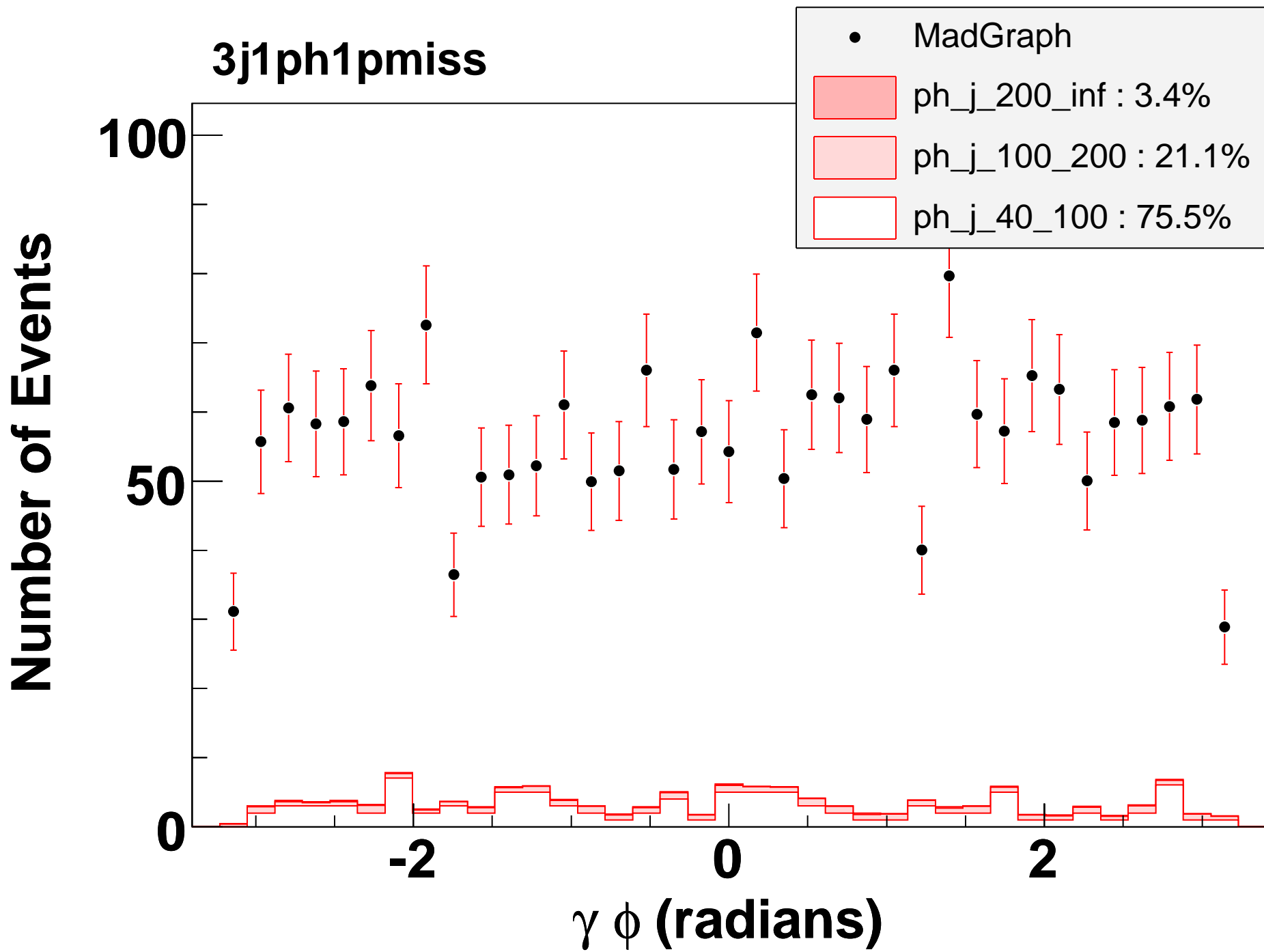
• MadGraph

ph_j_200_inf : 3.4%

ph_j_100_200 : 21.1%

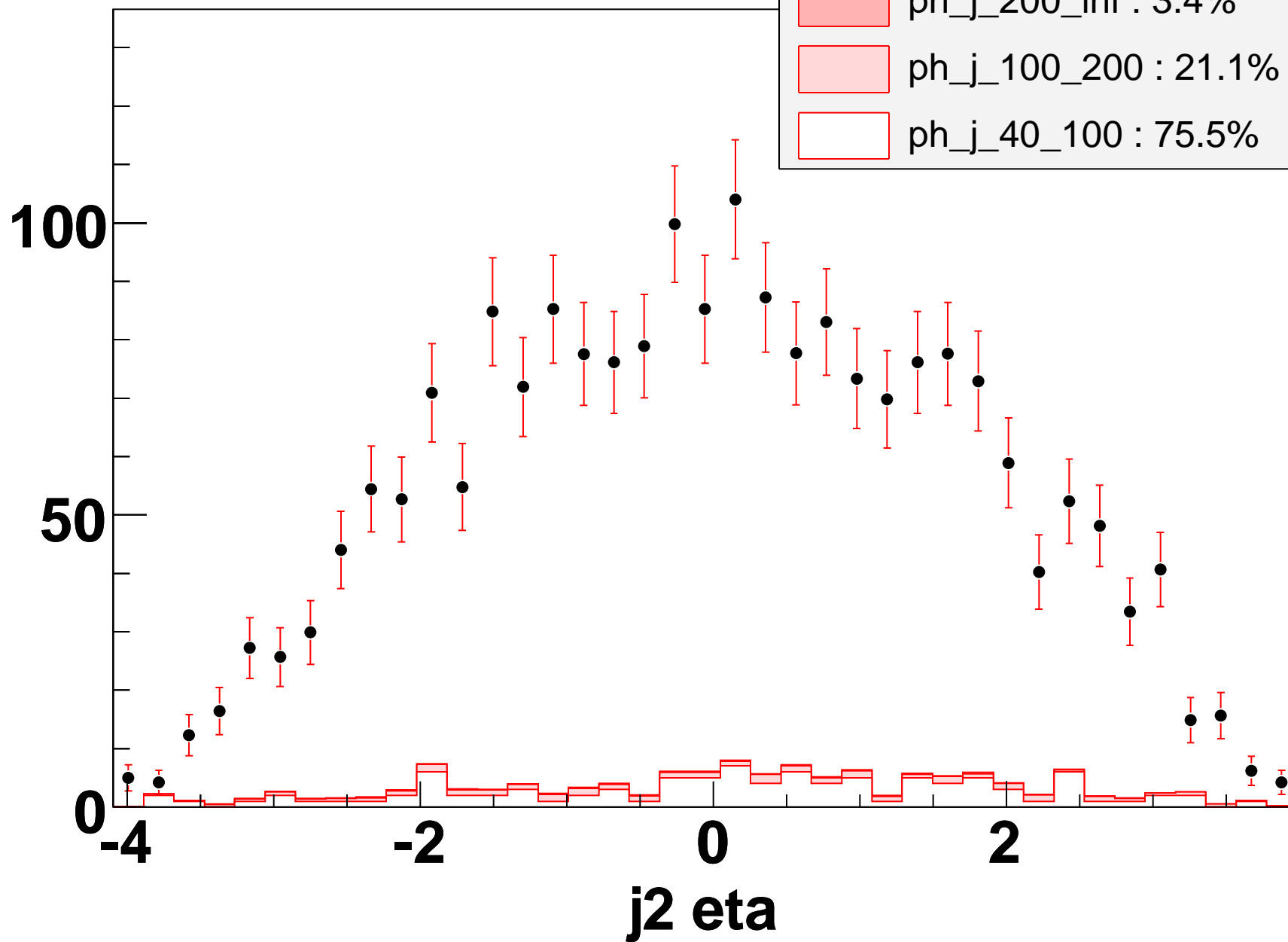
ph_j_40_100 : 75.5%





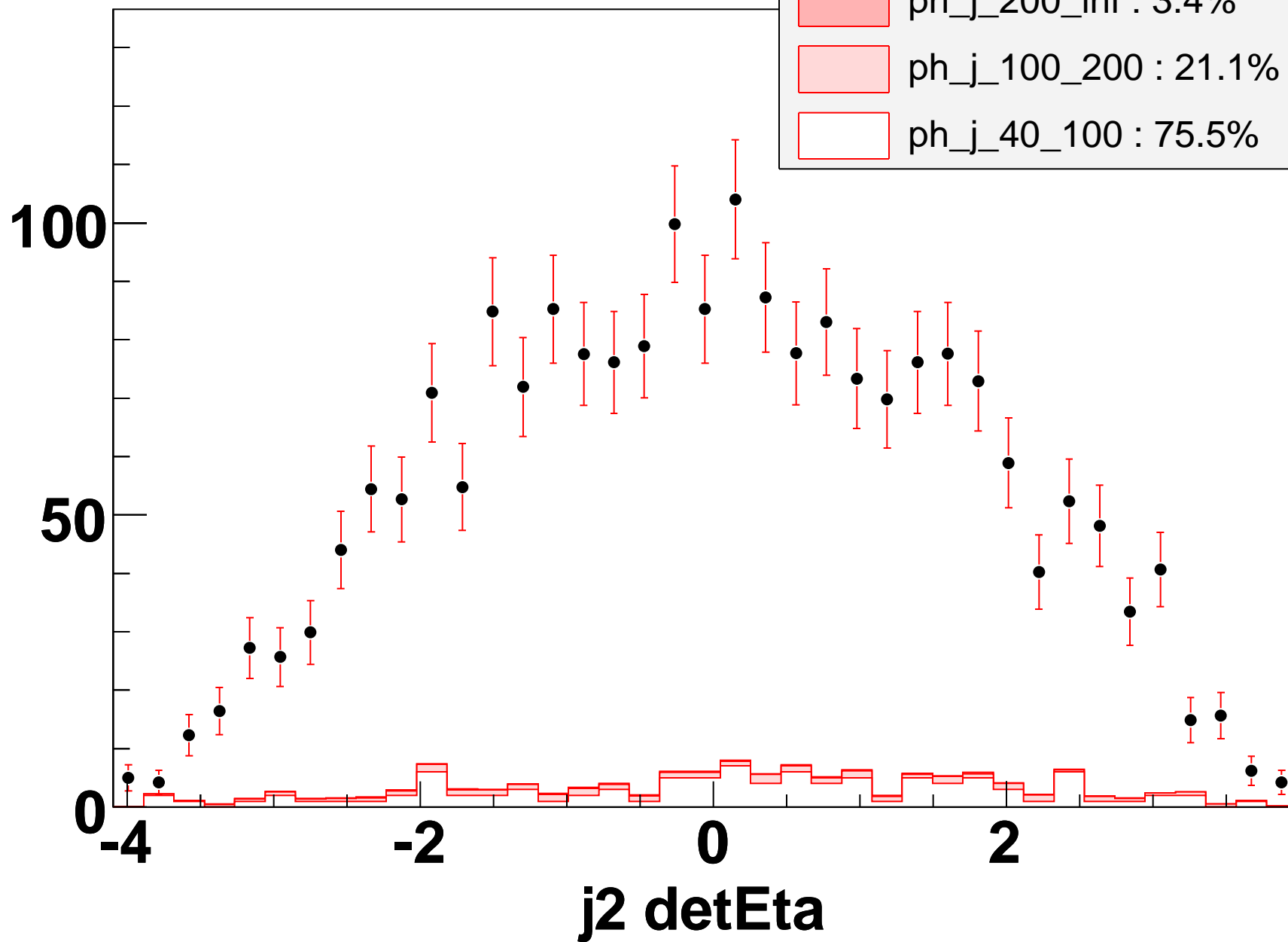
3j1ph1pmiss

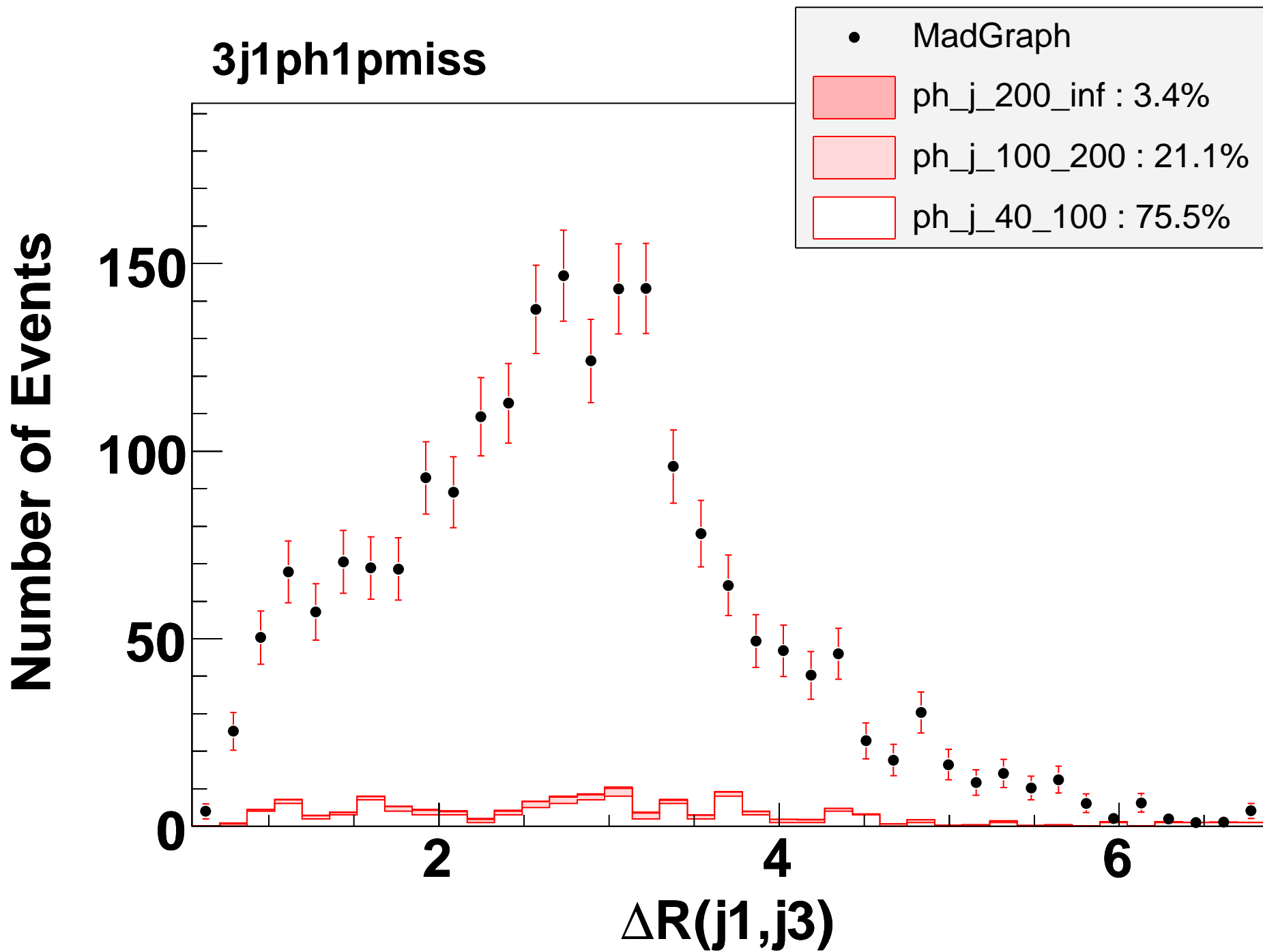
Number of Events

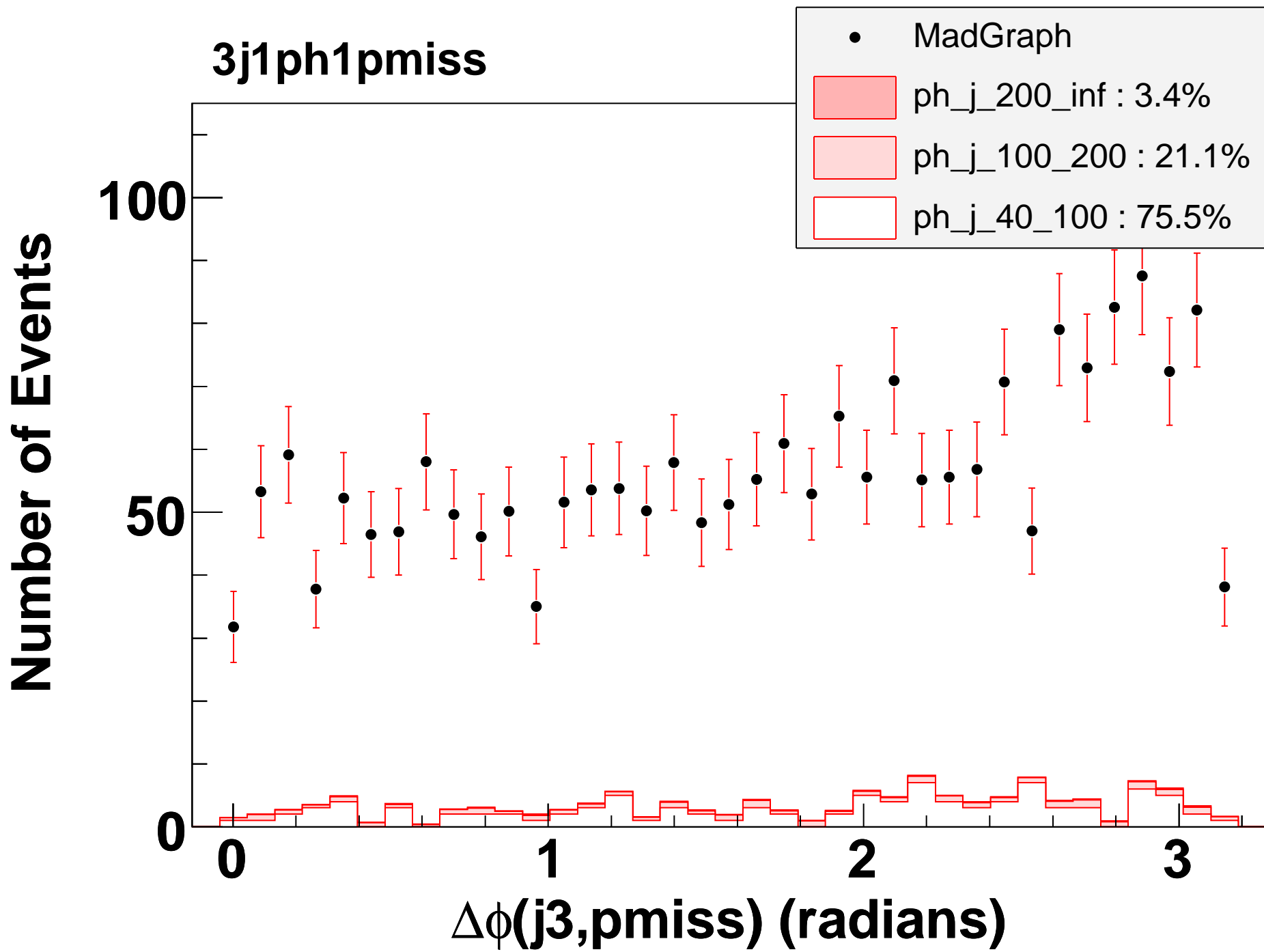


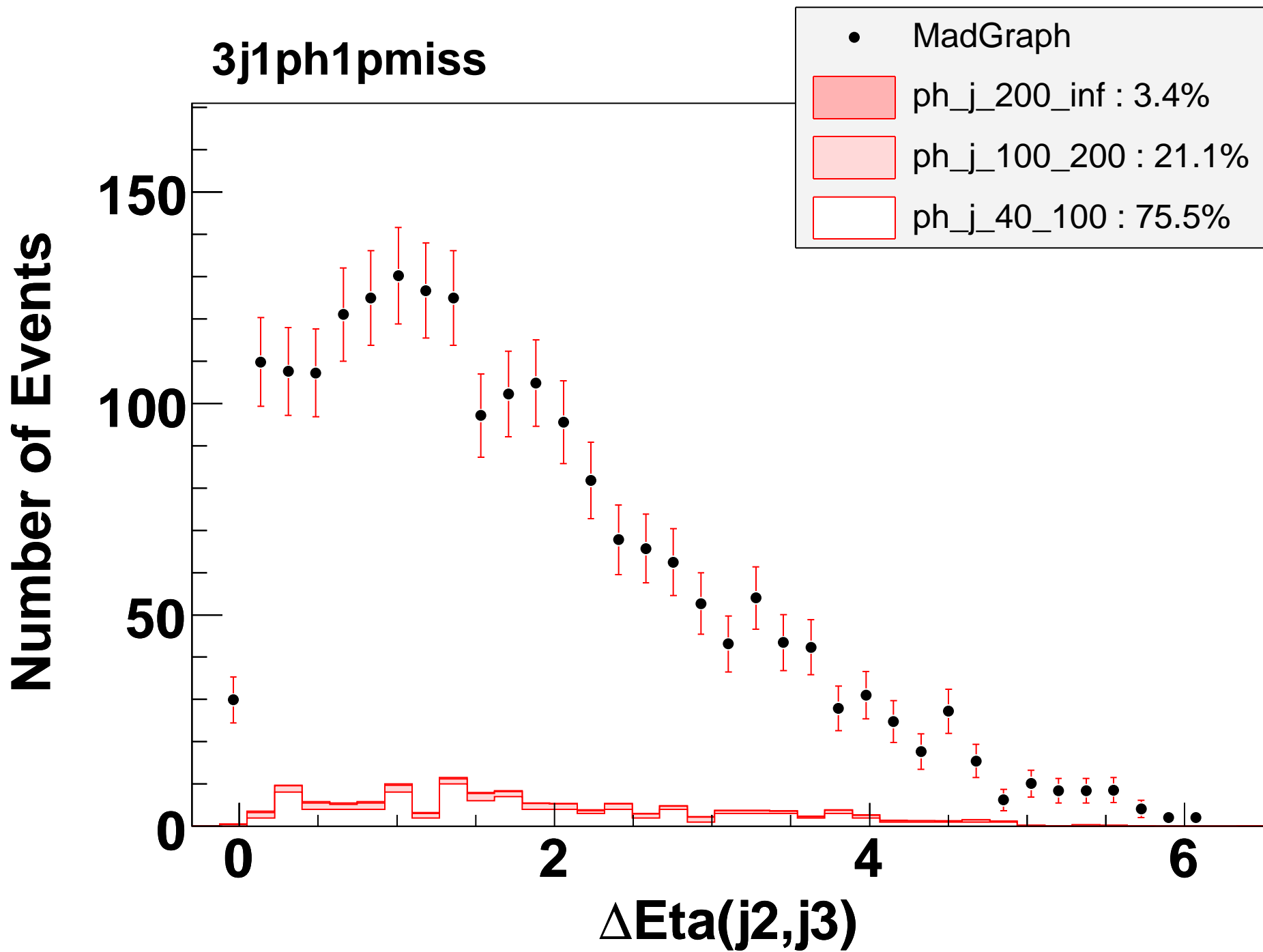
3j1ph1pmiss

Number of Events



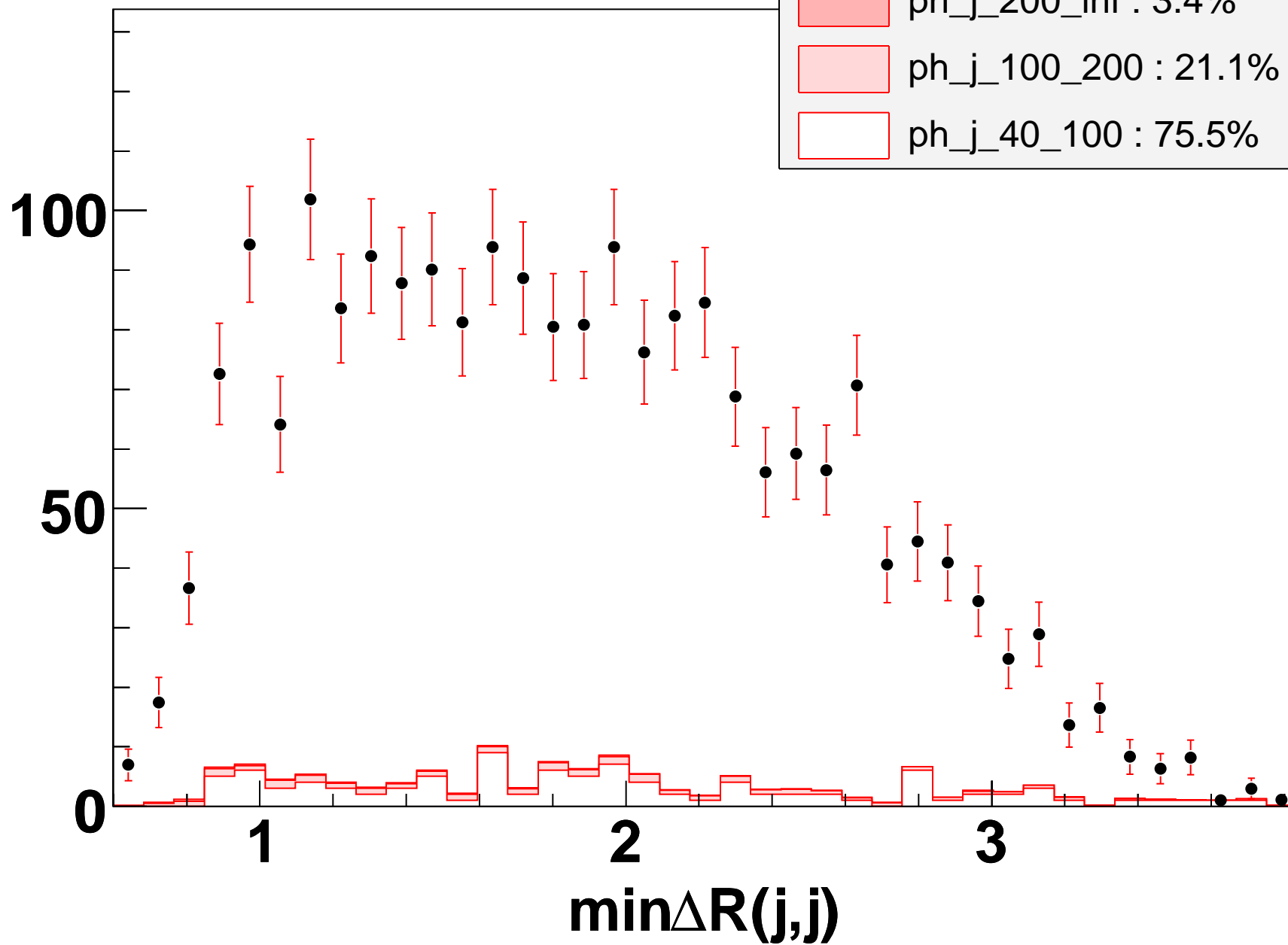


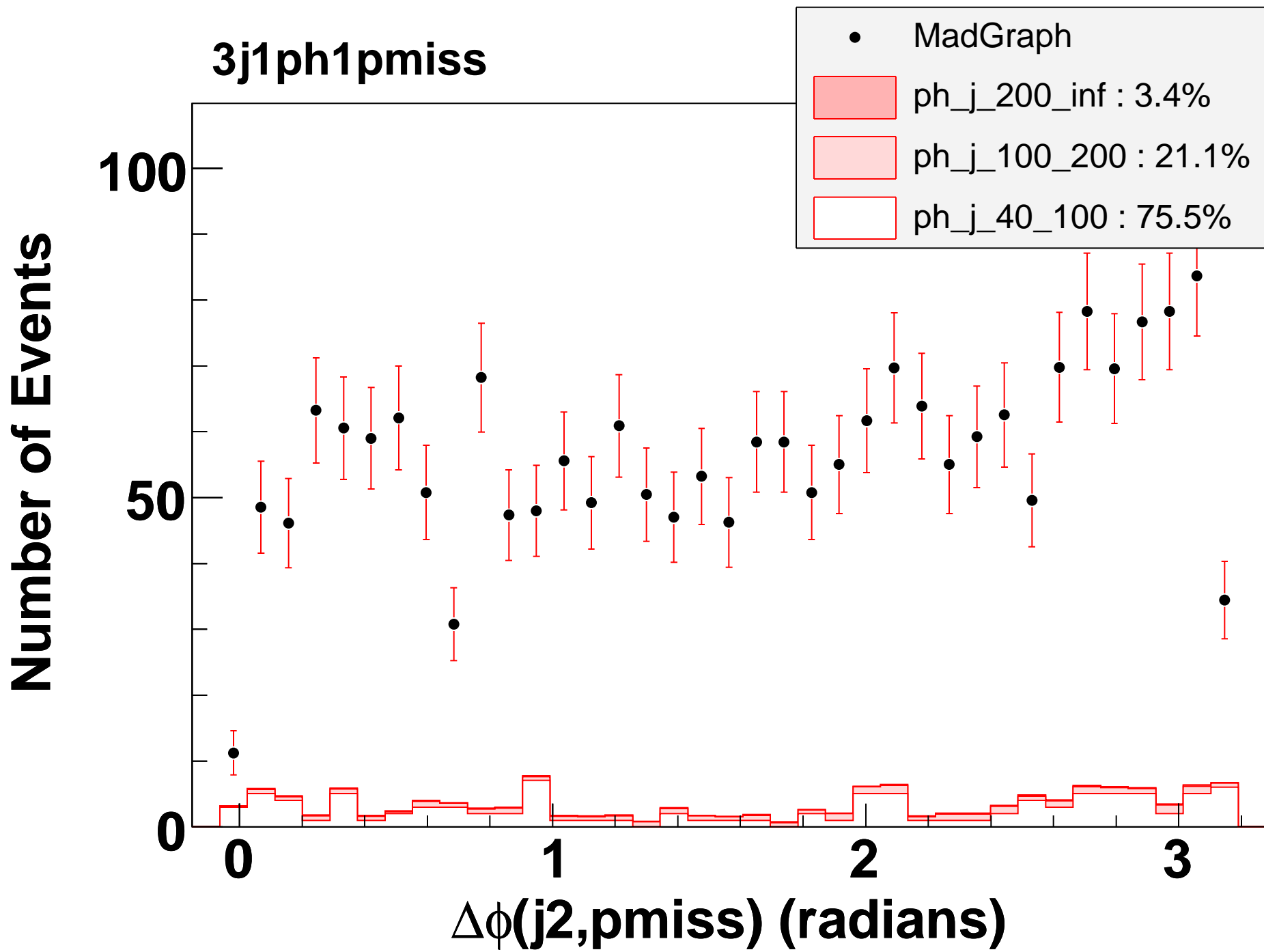




3j1ph1pmiss

Number of Events





3j1ph1pmiss

Number of Events

200

150

100

50

0

2

4

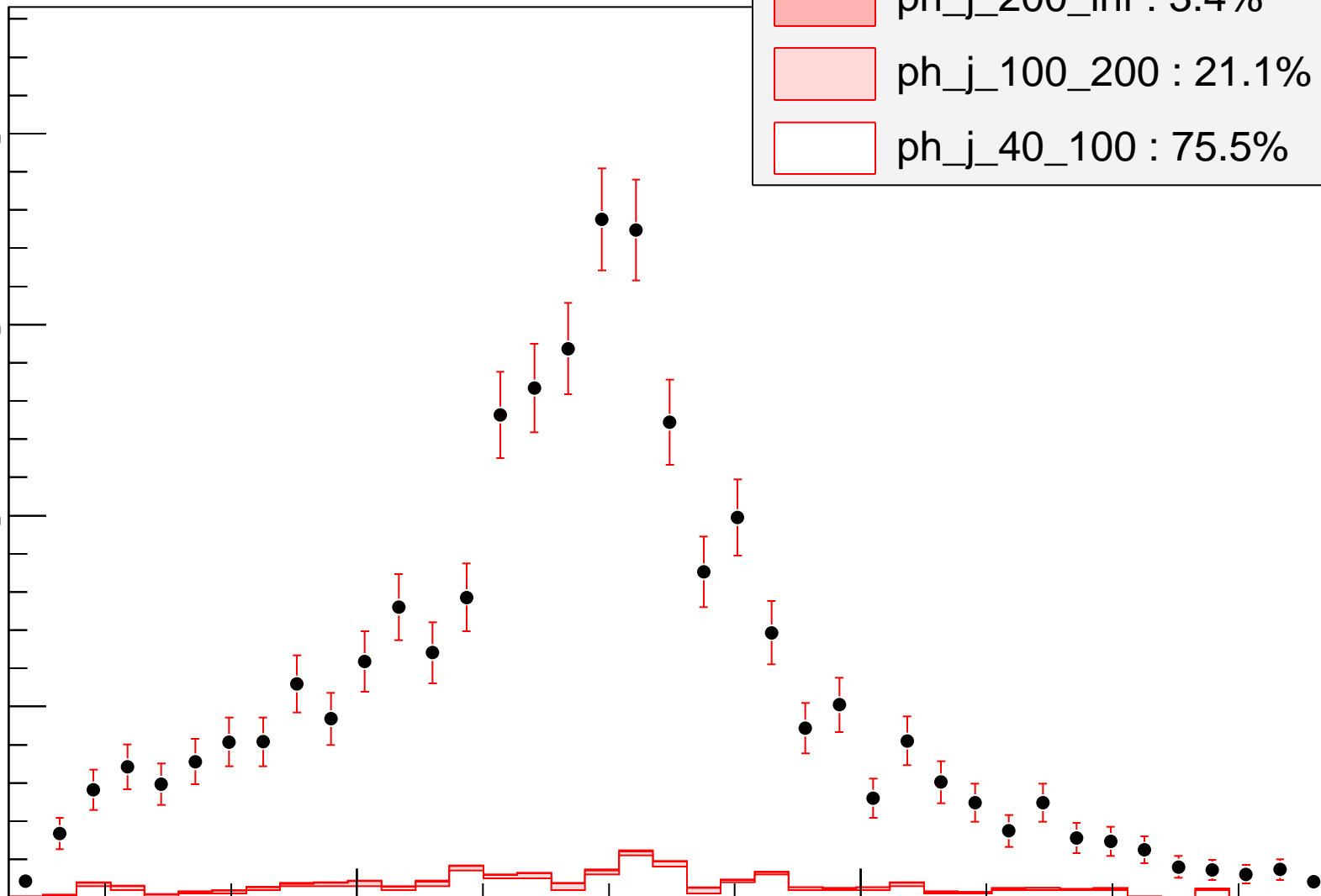
$\Delta R(j1,j2)$

• MadGraph

ph_j_200_inf : 3.4%

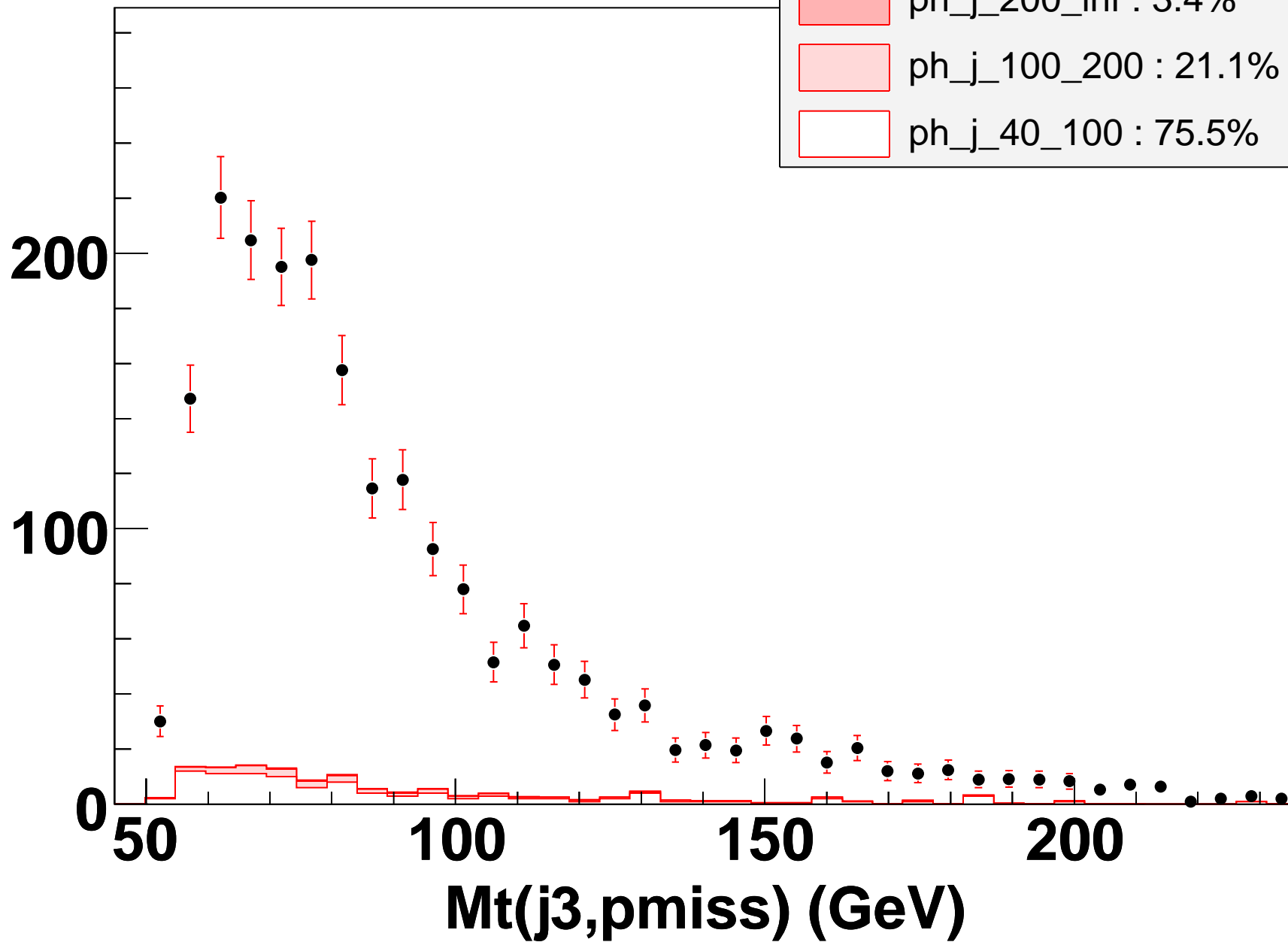
ph_j_100_200 : 21.1%

ph_j_40_100 : 75.5%

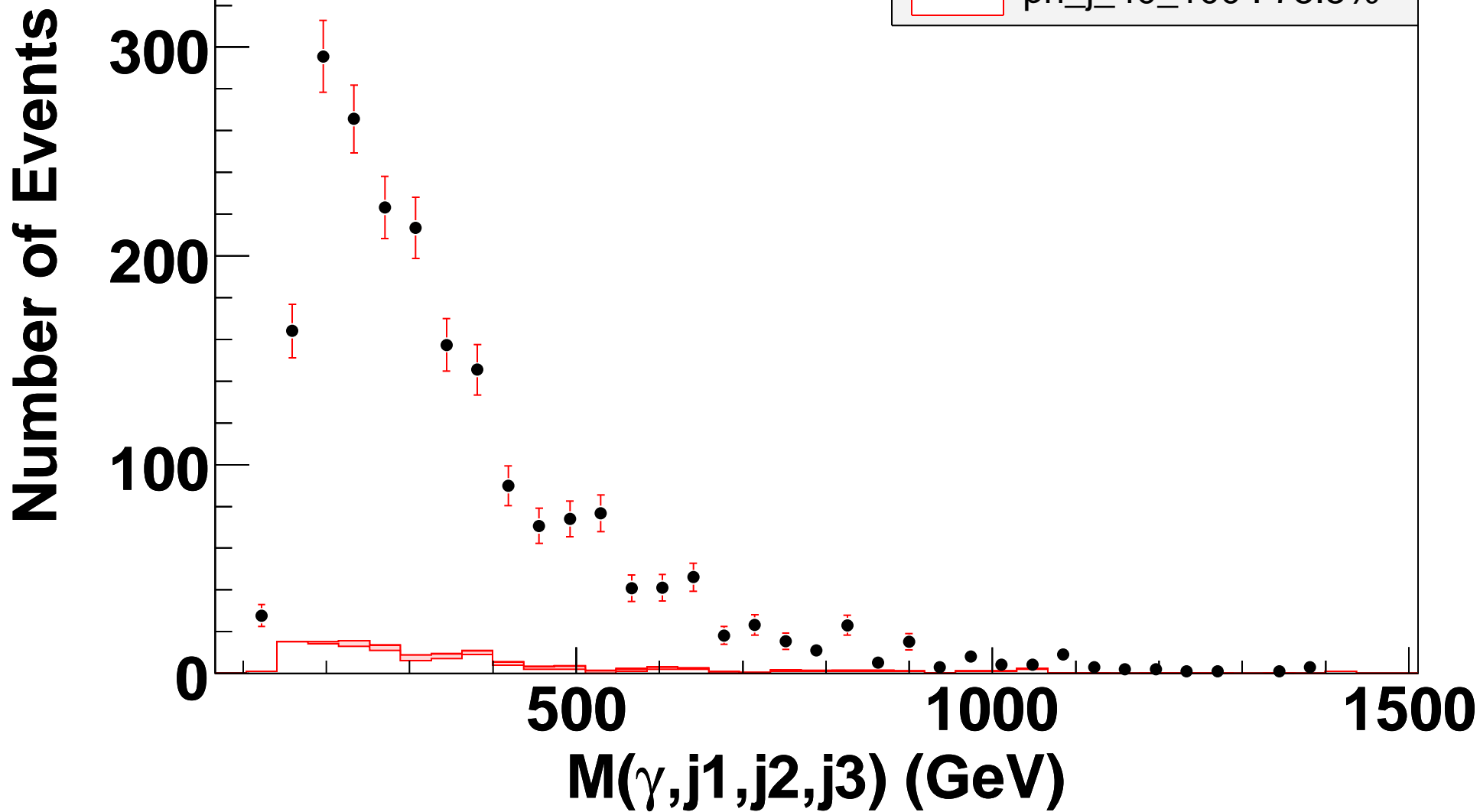


3j1ph1pmiss

Number of Events



3j1ph1pmiss



3j1ph1pmiss

Number of Events

600

400

200

0

0

200

400

600

800

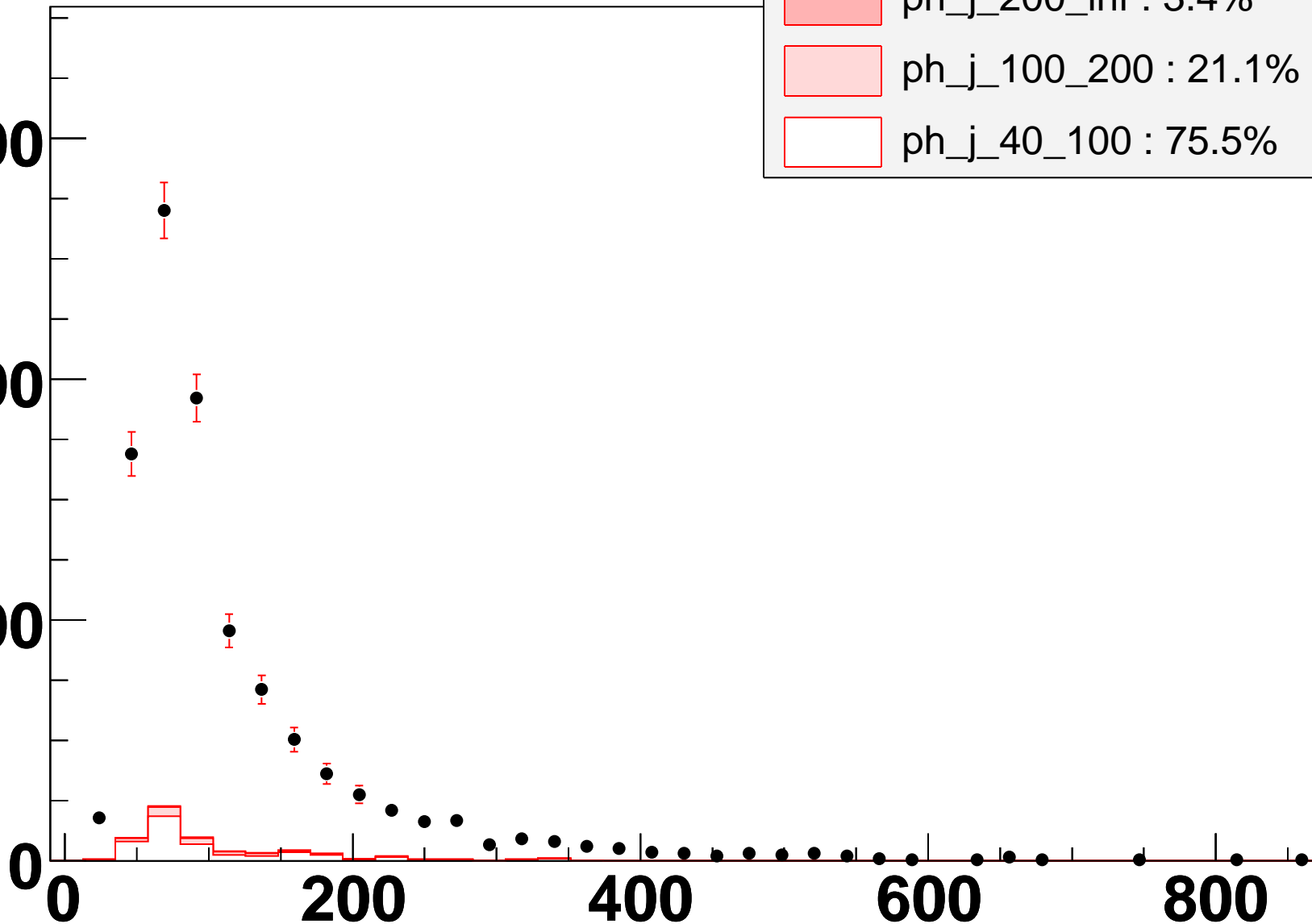
M(j2,j3) (GeV)

• MadGraph

ph_j_200_inf : 3.4%

ph_j_100_200 : 21.1%

ph_j_40_100 : 75.5%



3j1ph1pmiss

Number of Events

200
150
100
50
0

100

200

300

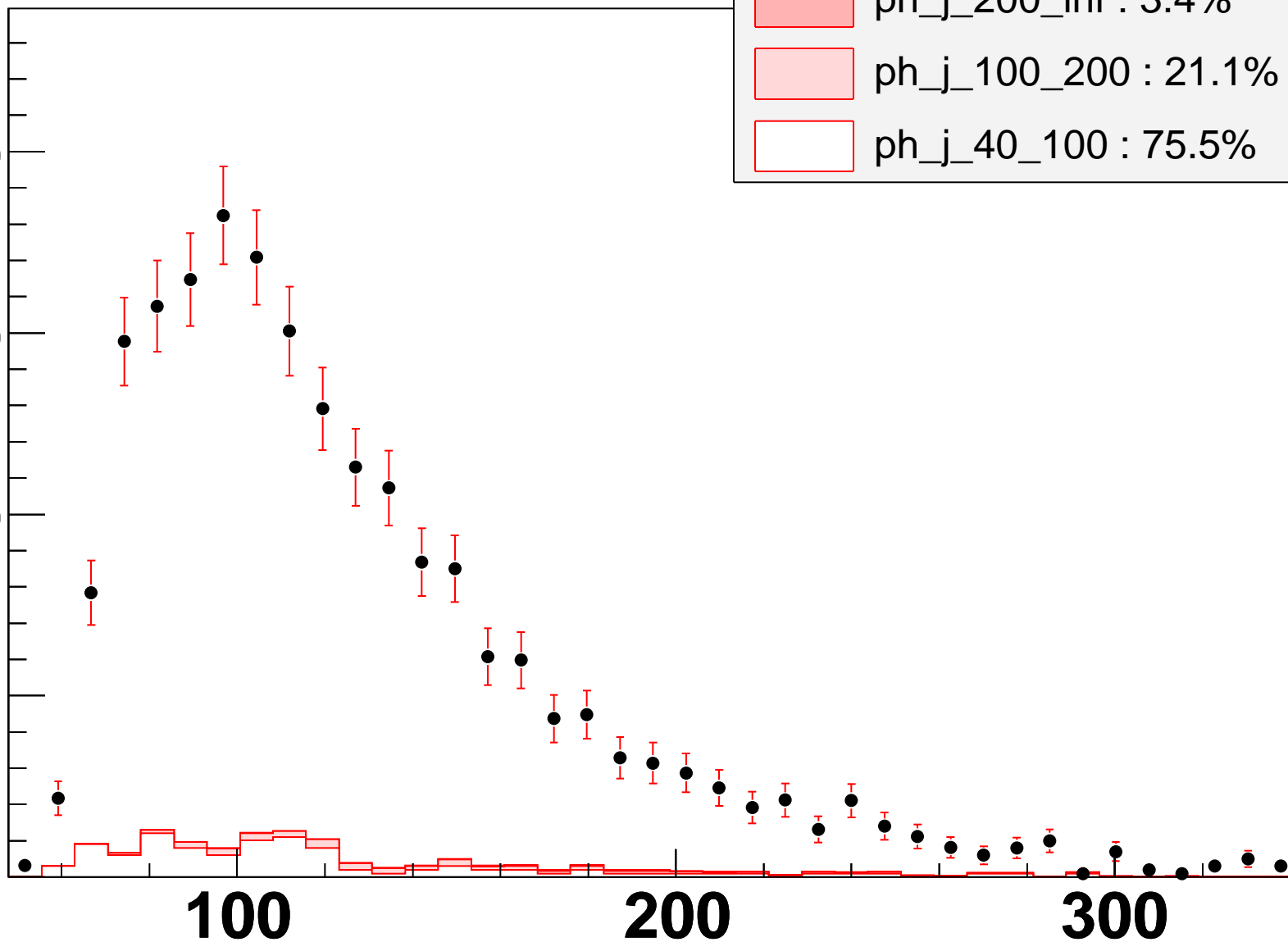
Mt(j1,pmiss) (GeV)

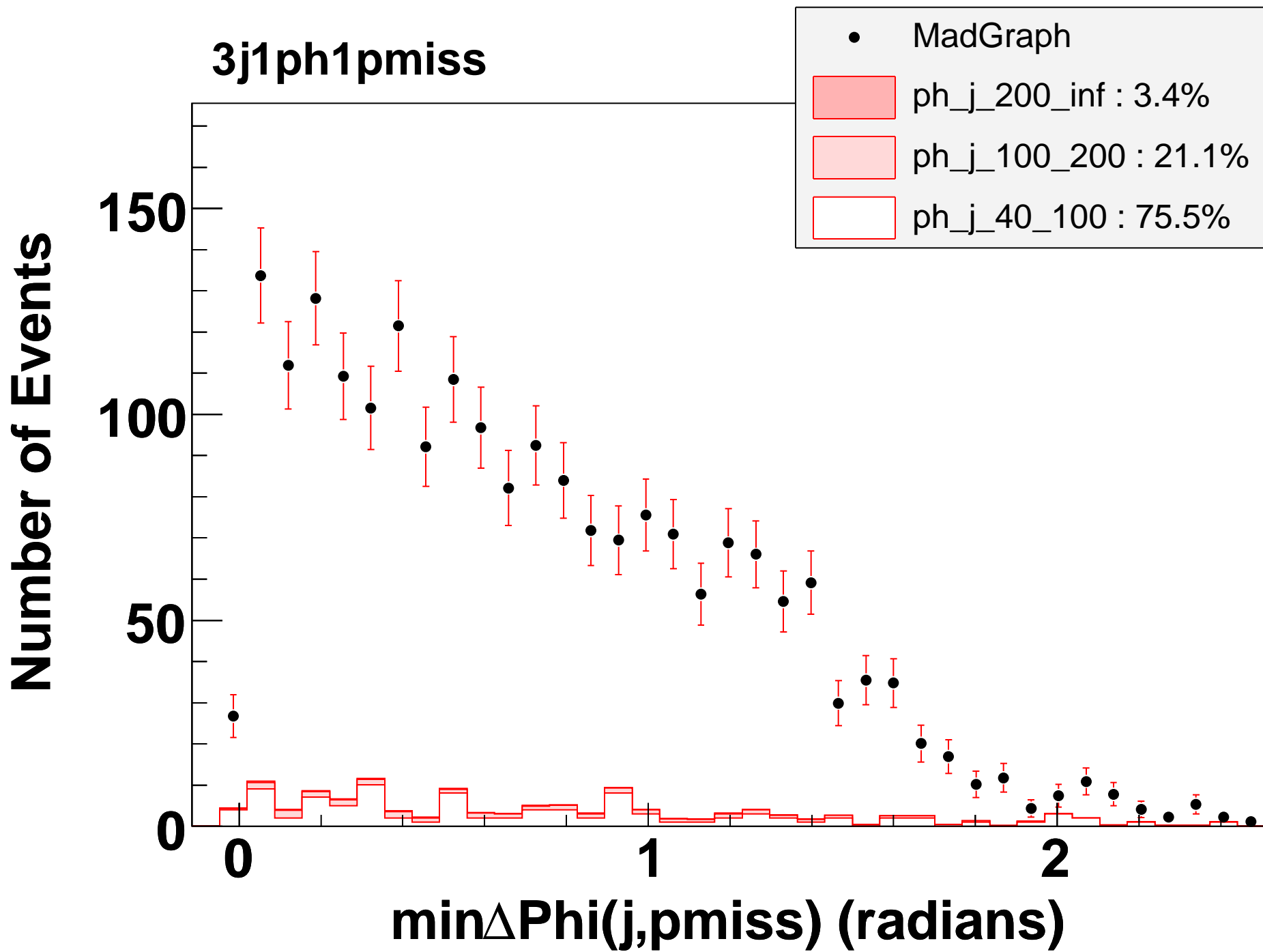
• MadGraph

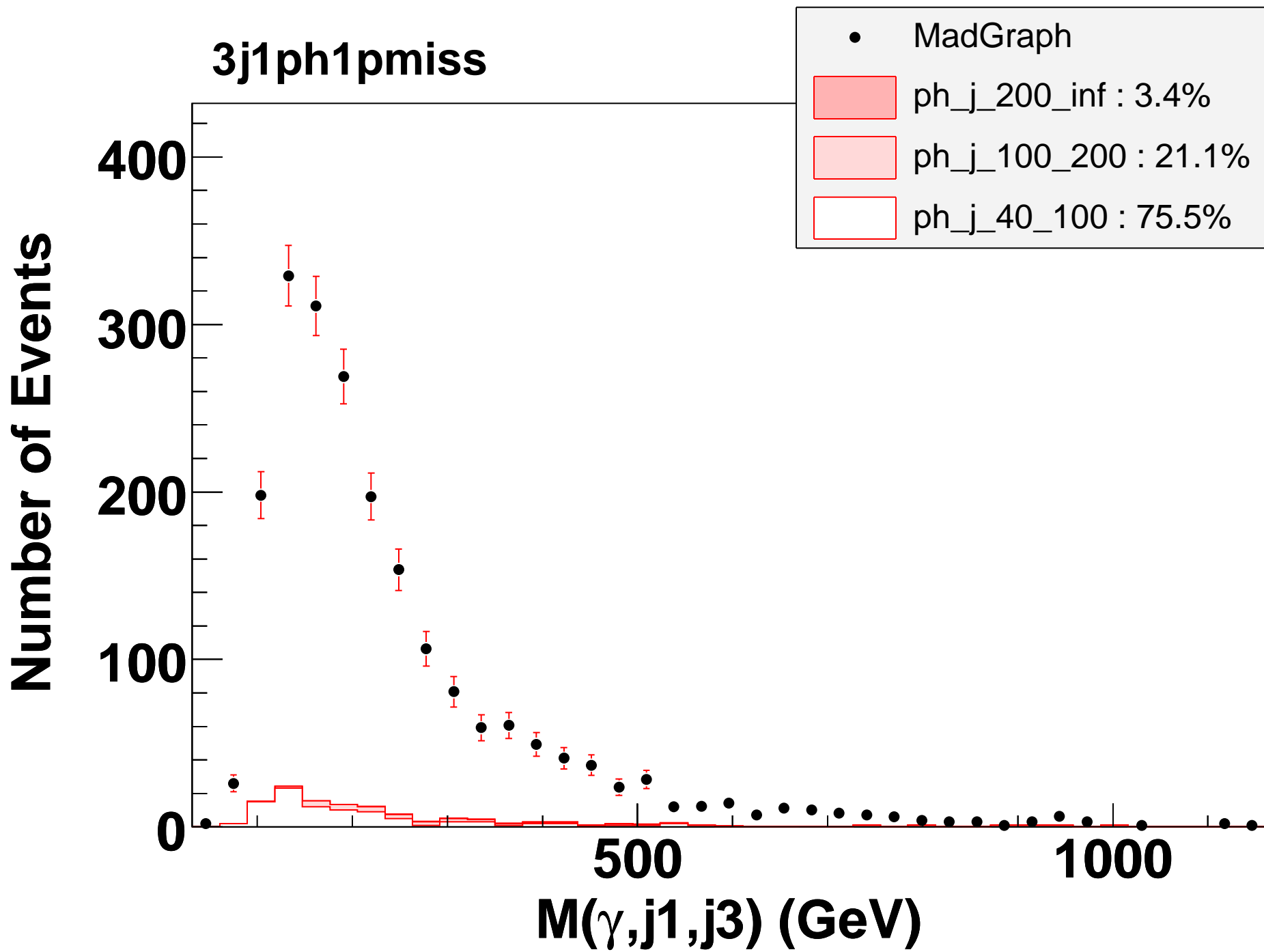
ph_j_200_inf : 3.4%

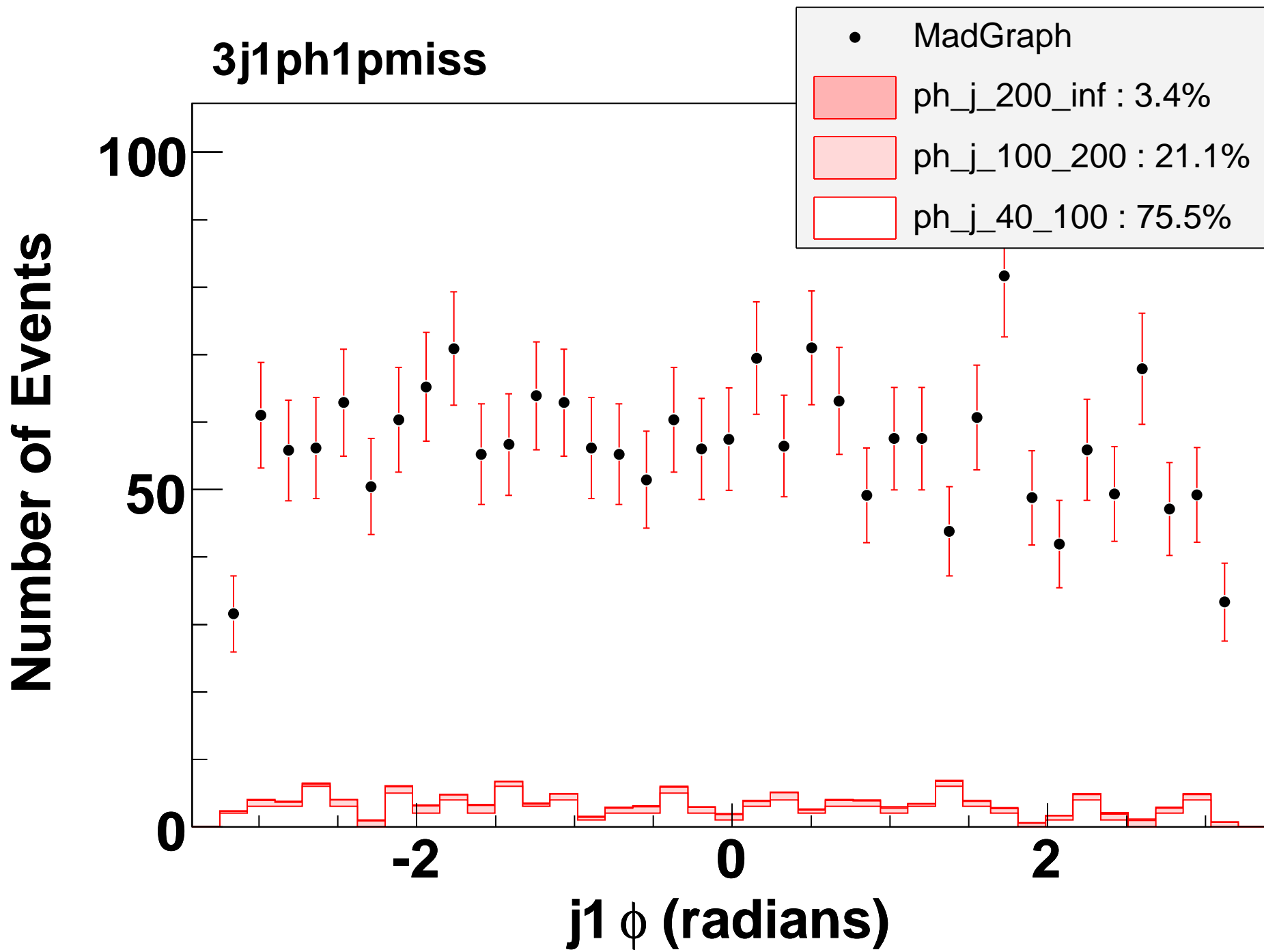
ph_j_100_200 : 21.1%

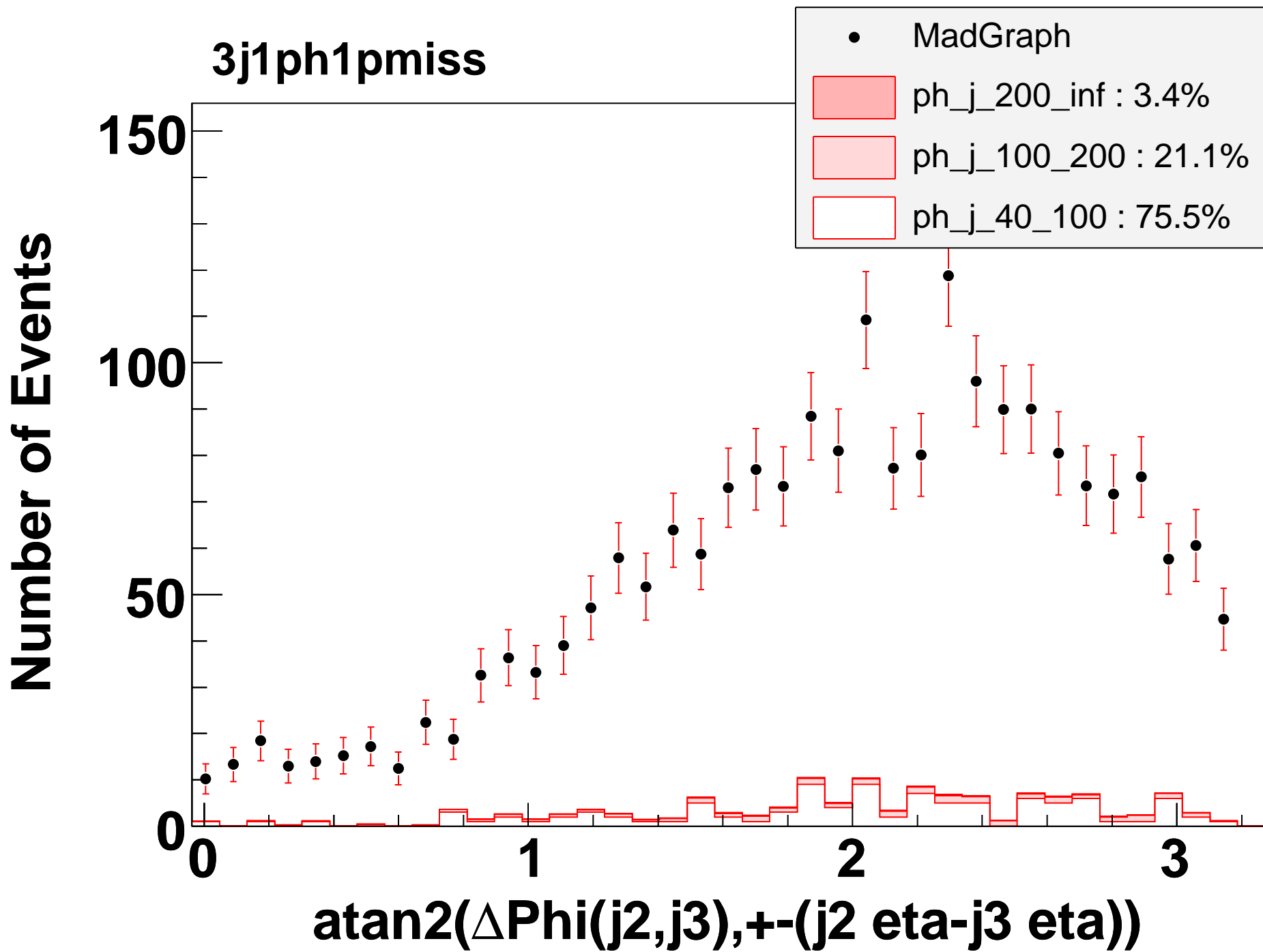
ph_j_40_100 : 75.5%

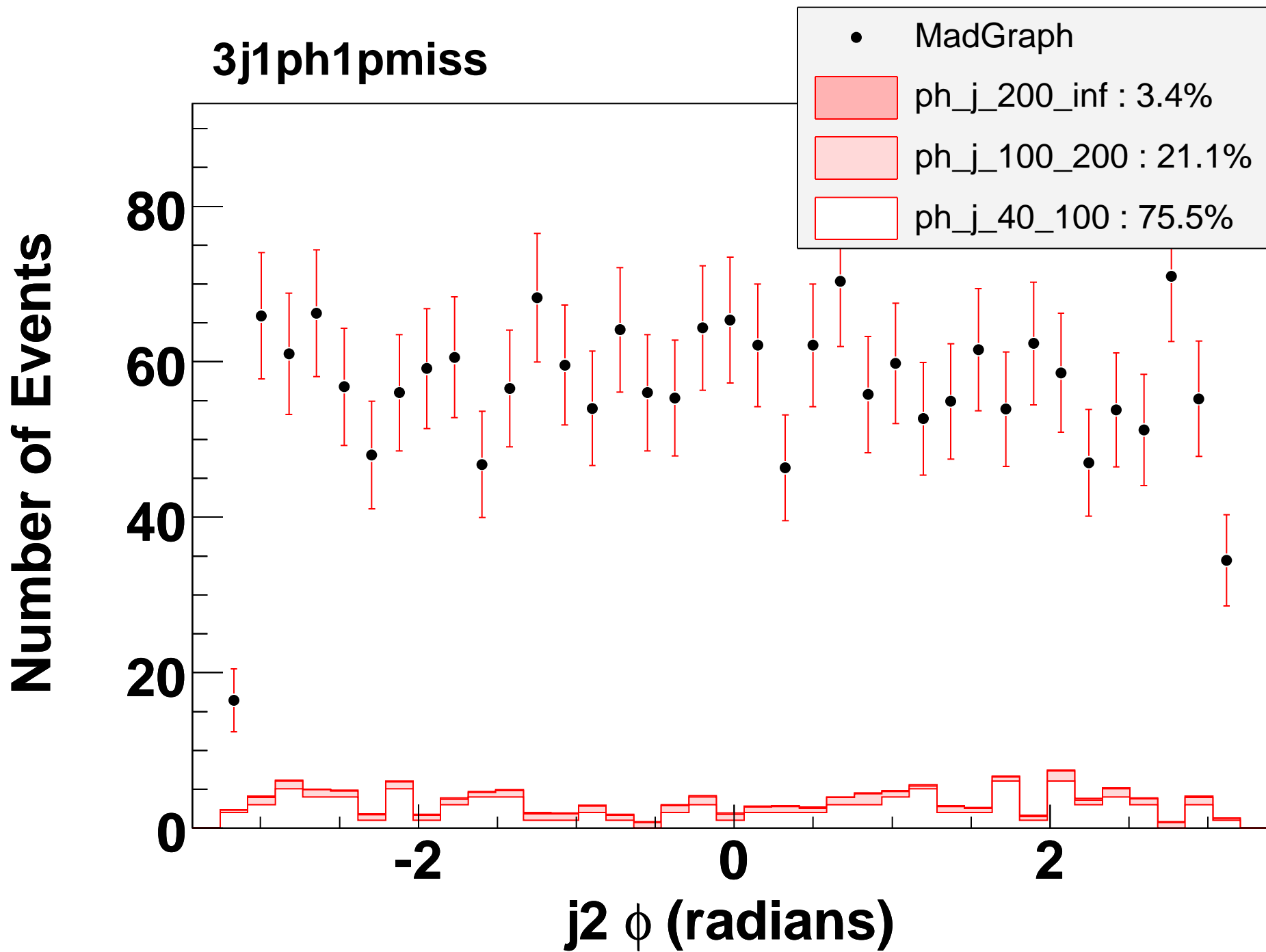


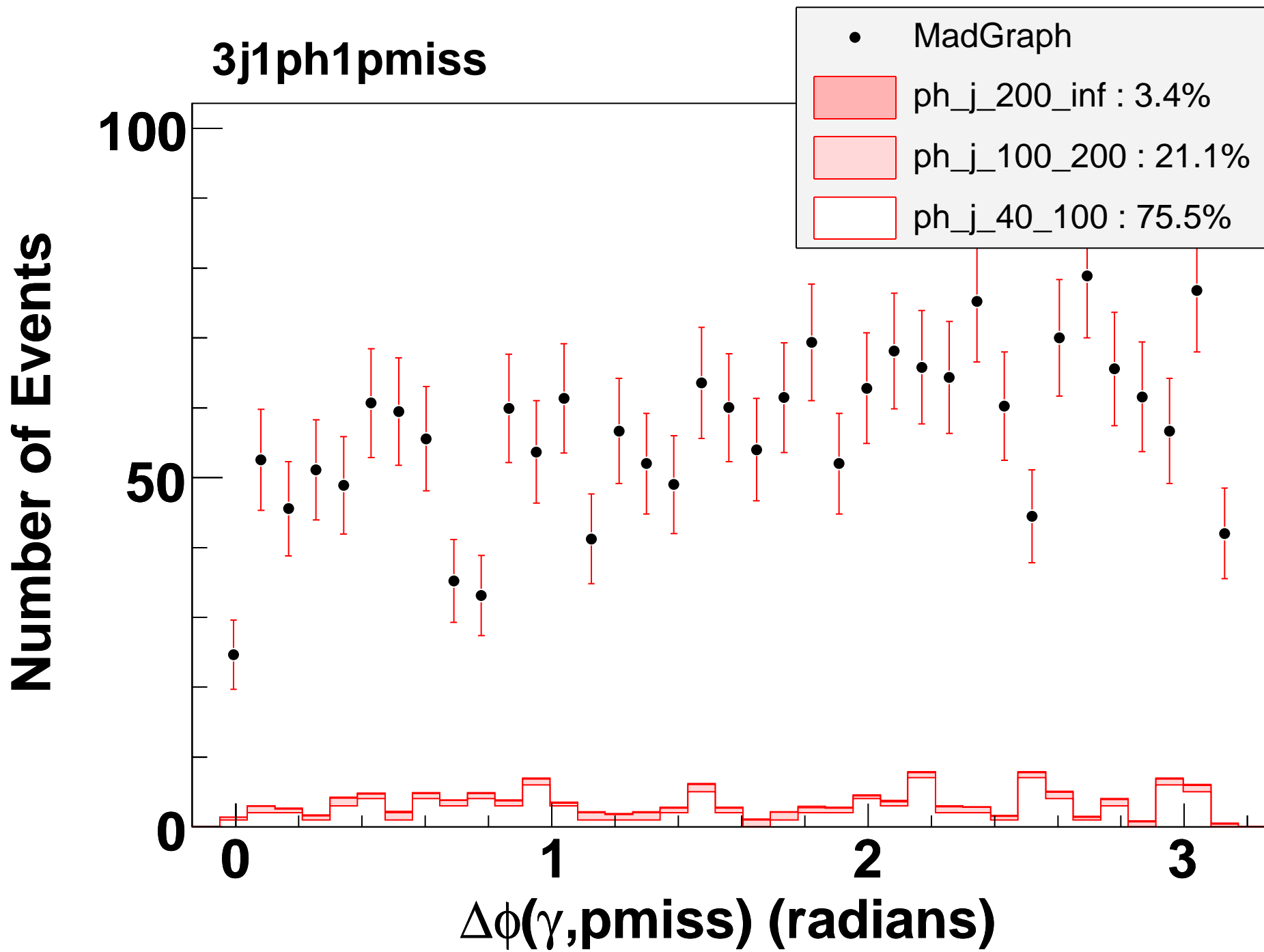










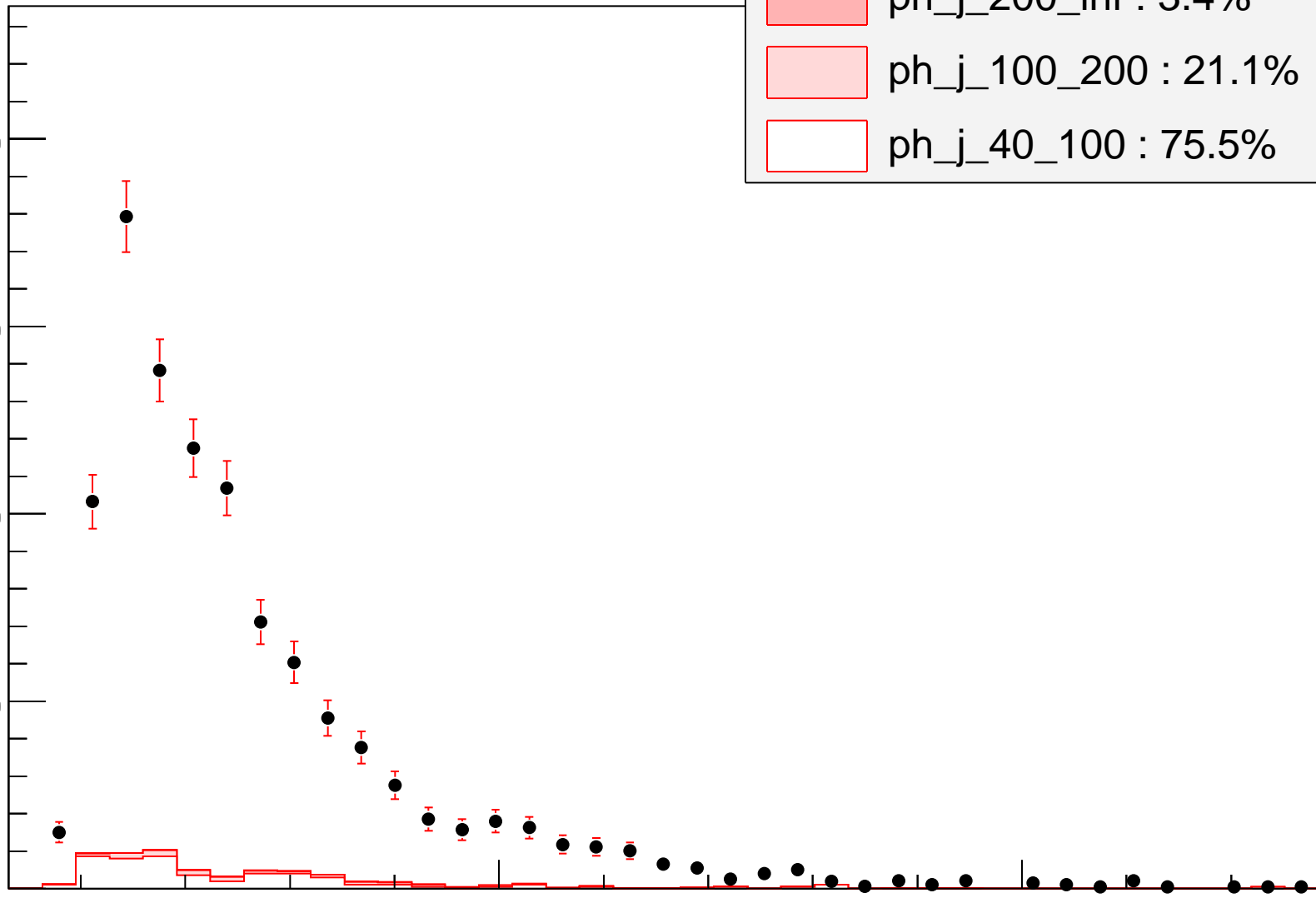
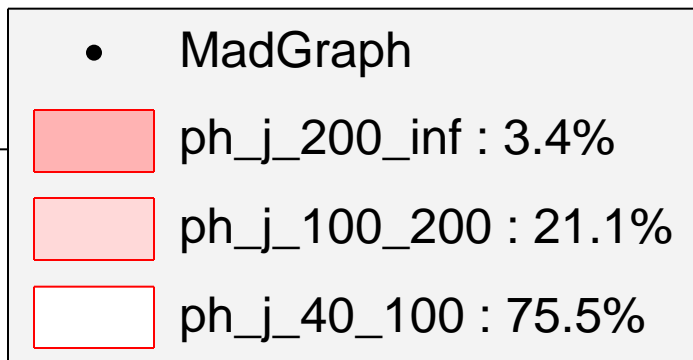


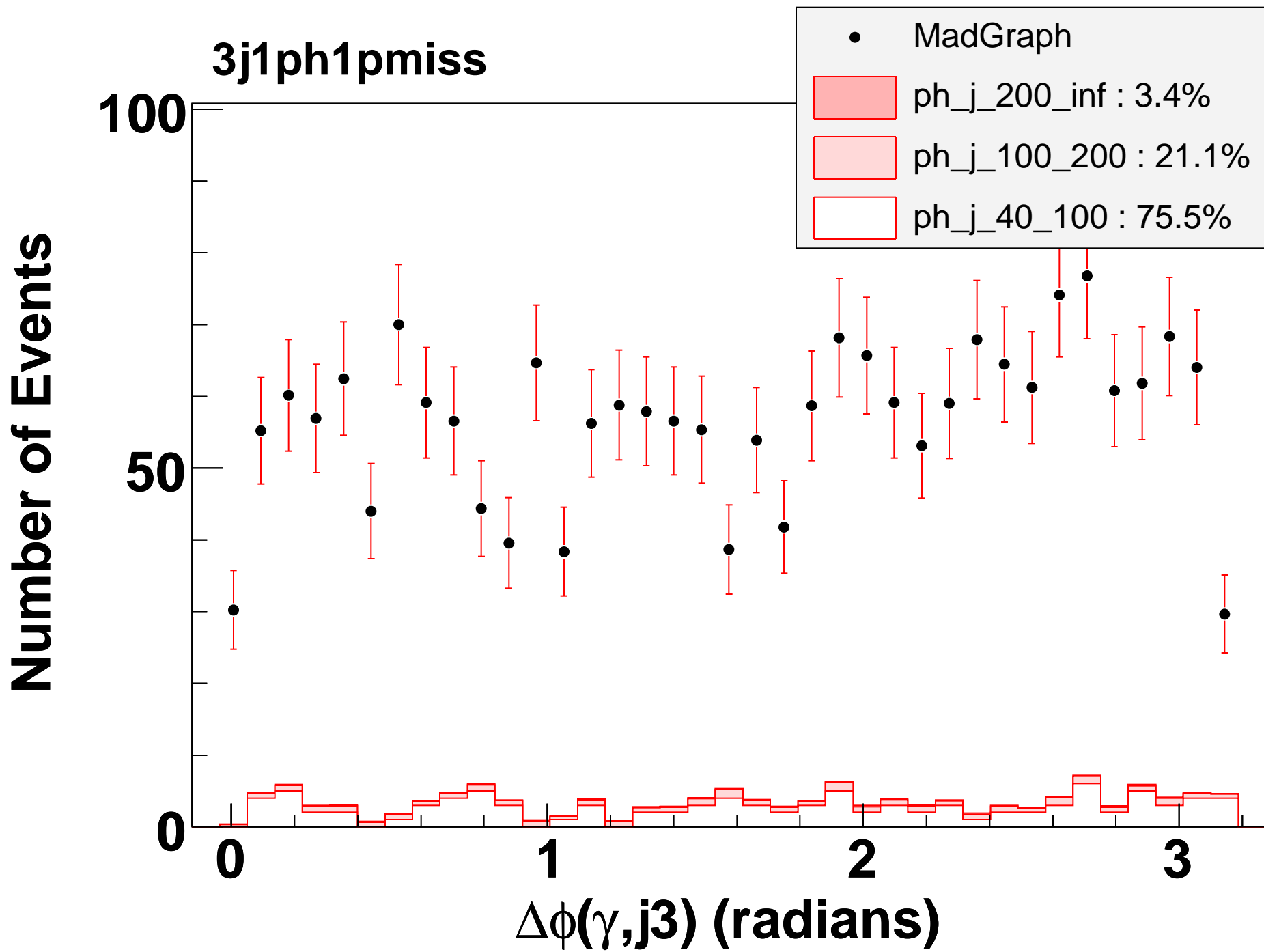
3j1ph1pmiss

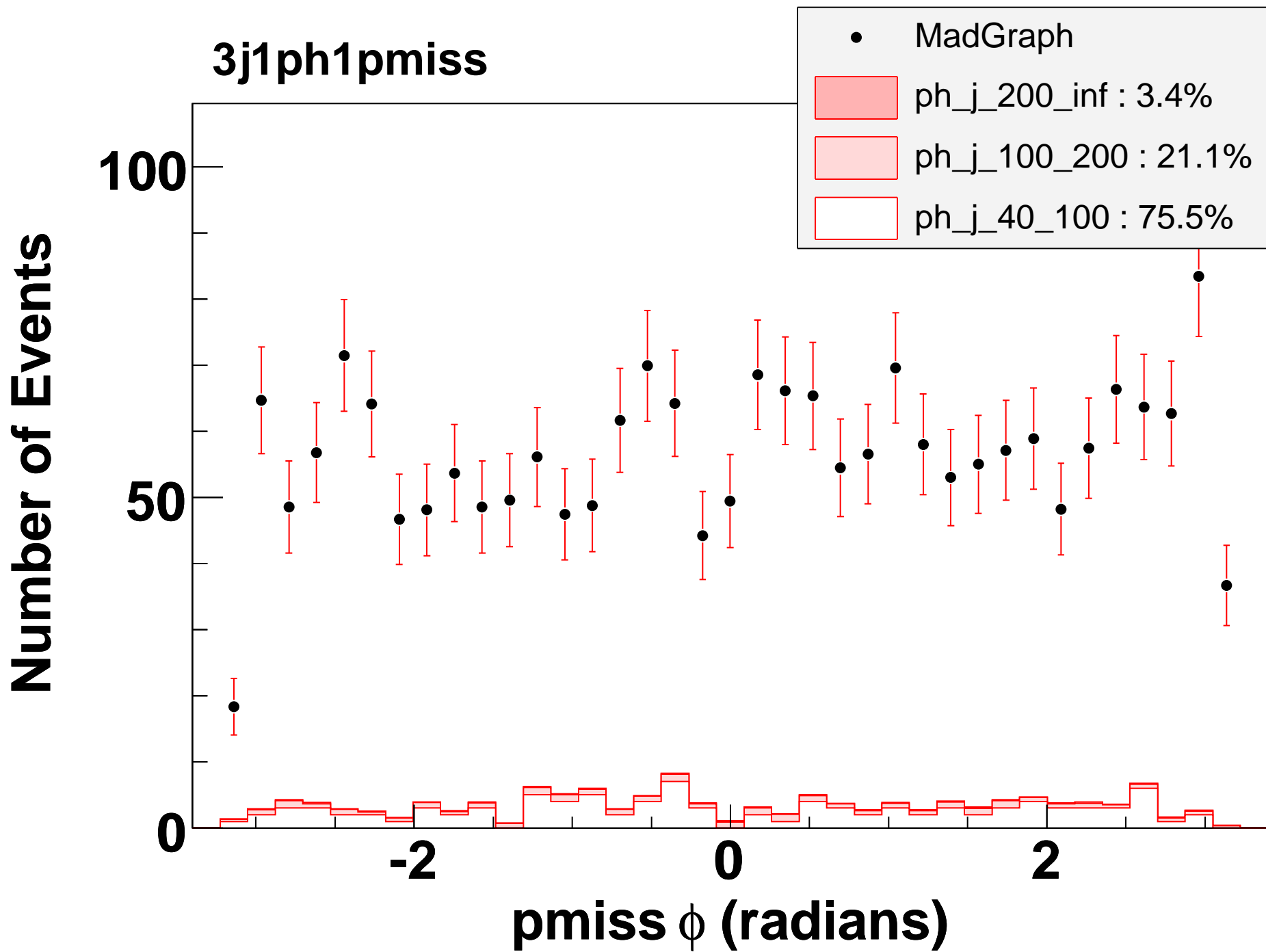
Number of Events

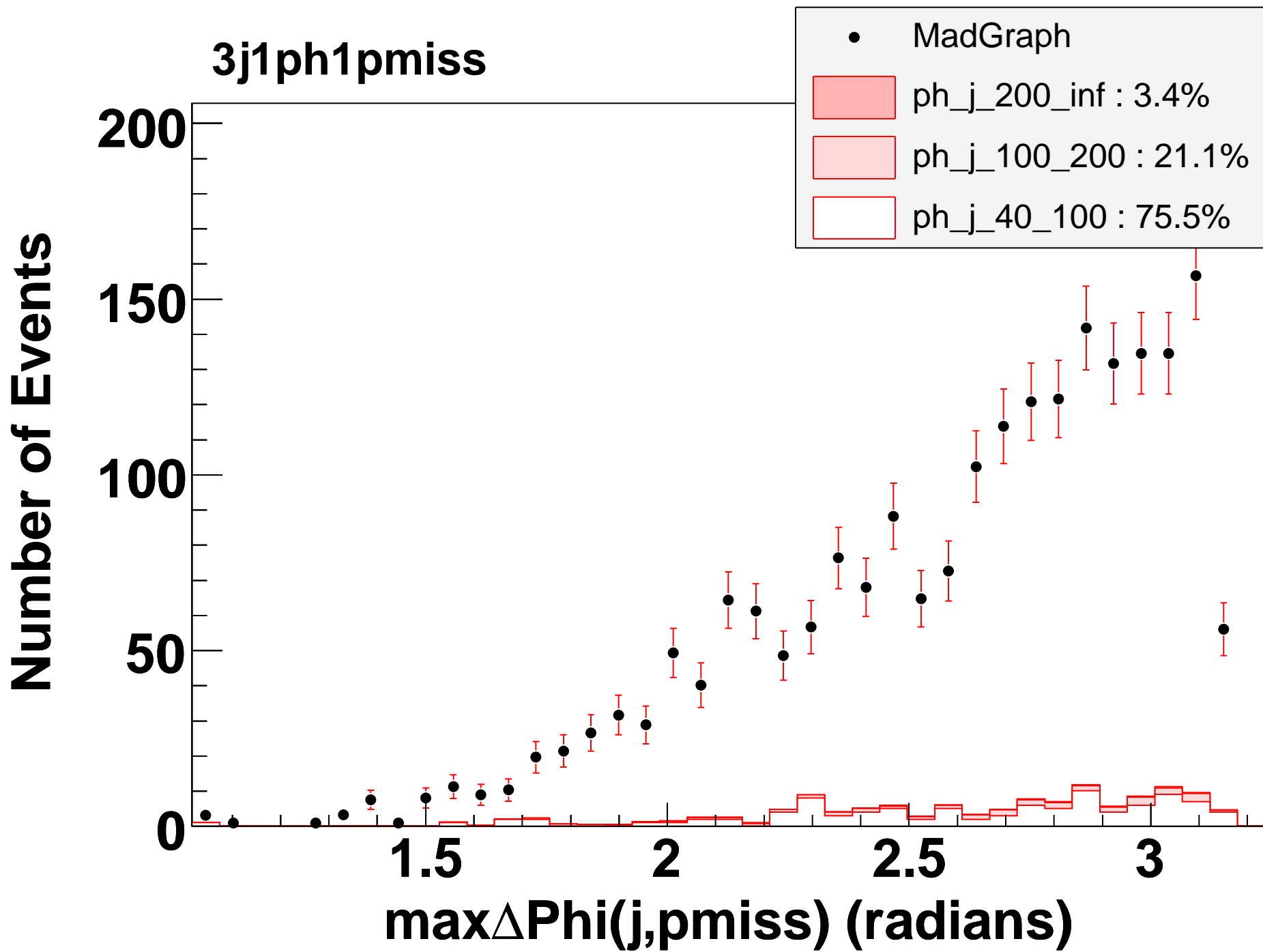
400
300
200
100
0

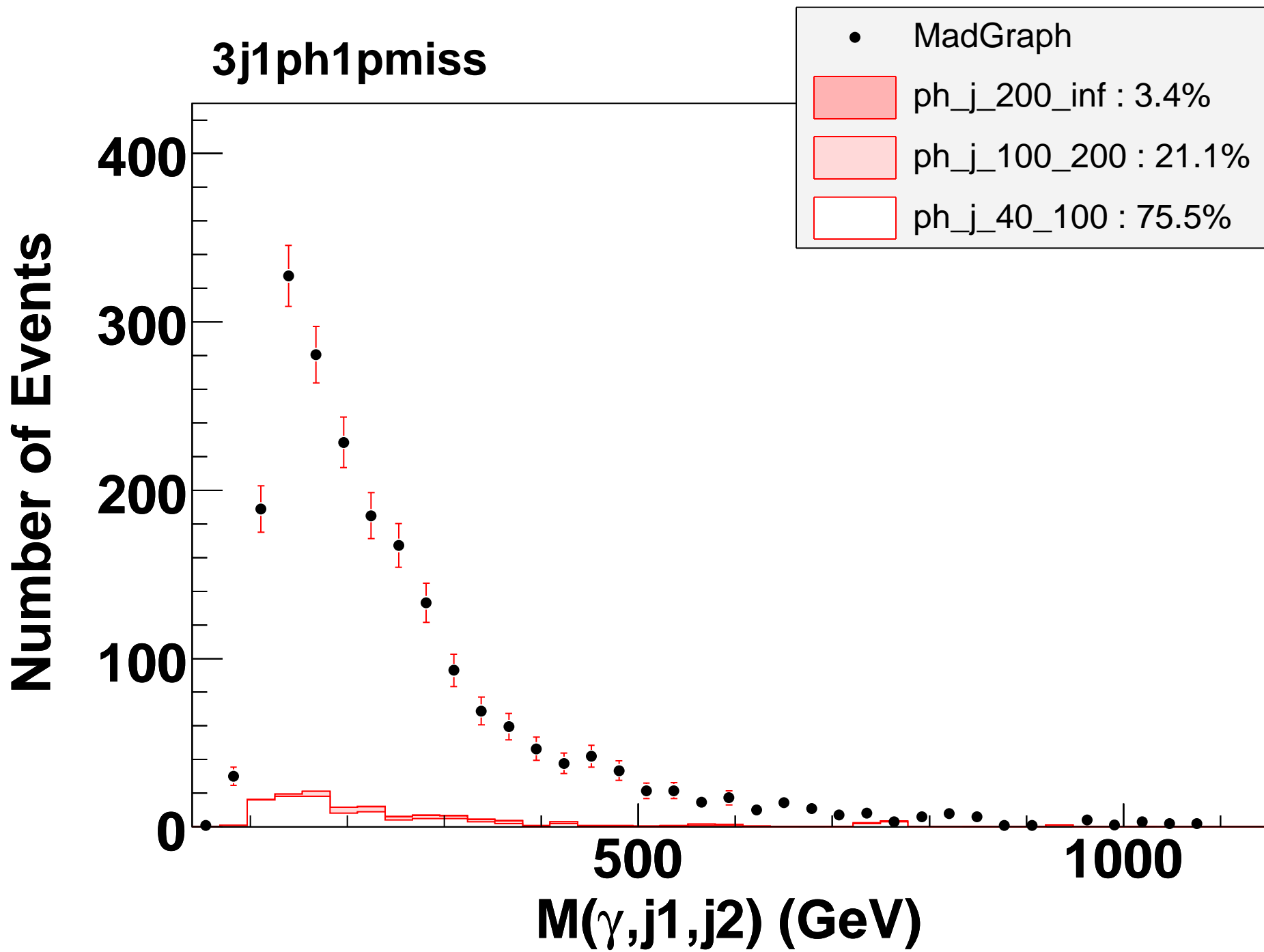
500 1000
M(j1,j2,j3) (GeV)

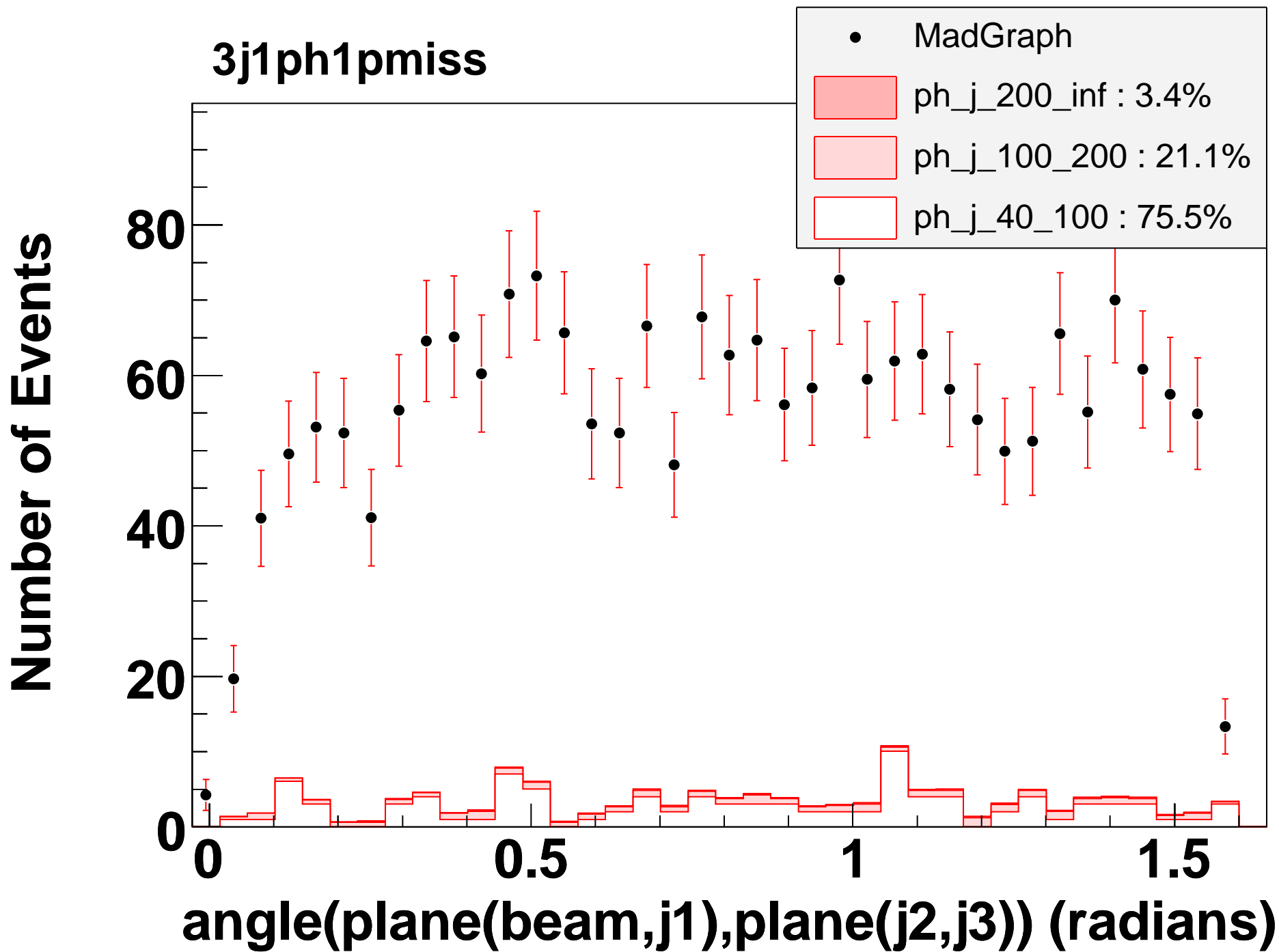












3j1ph1pmiss

Number of Events

300

200

100

0

40

60

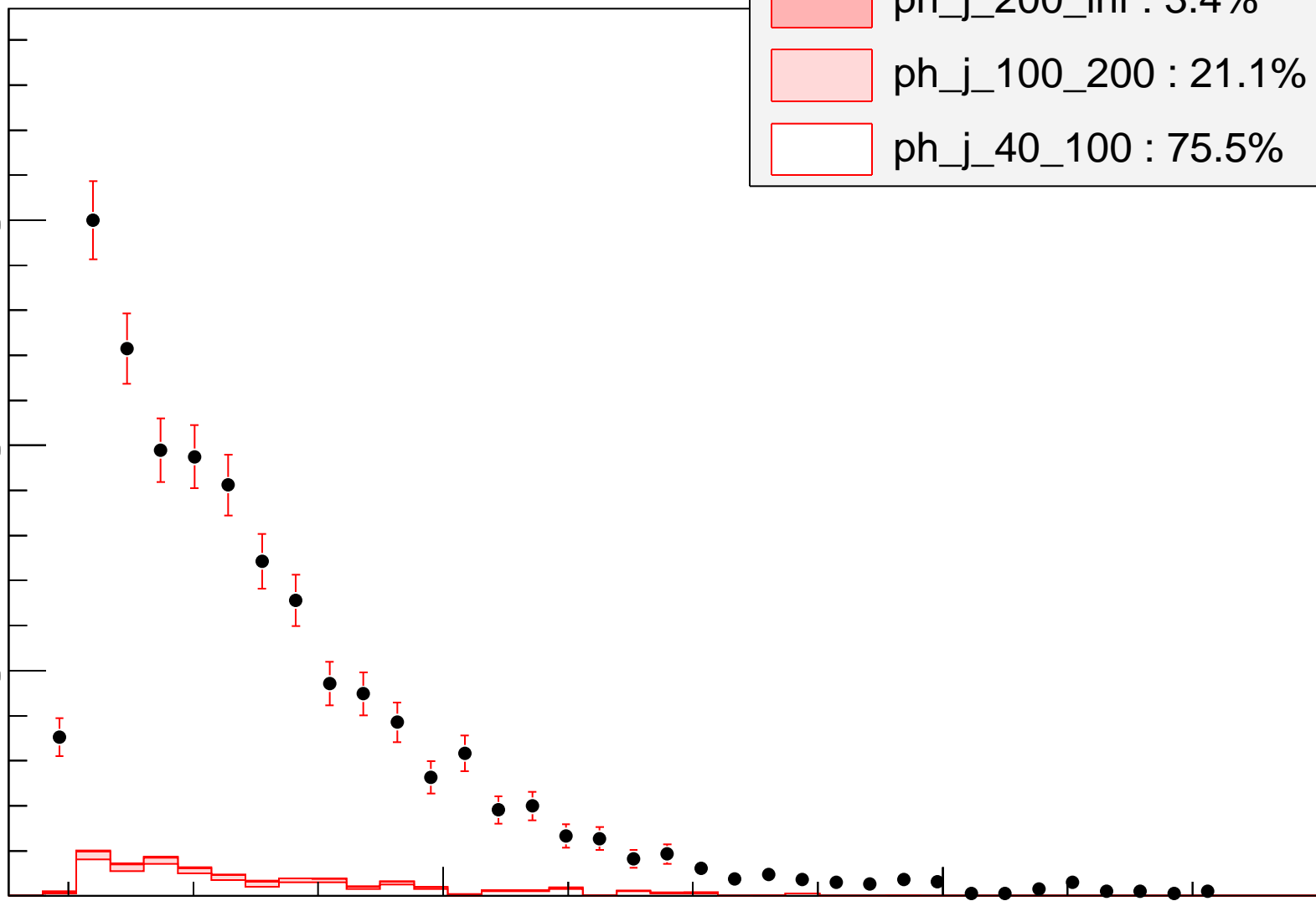
p_T (GeV)

• MadGraph

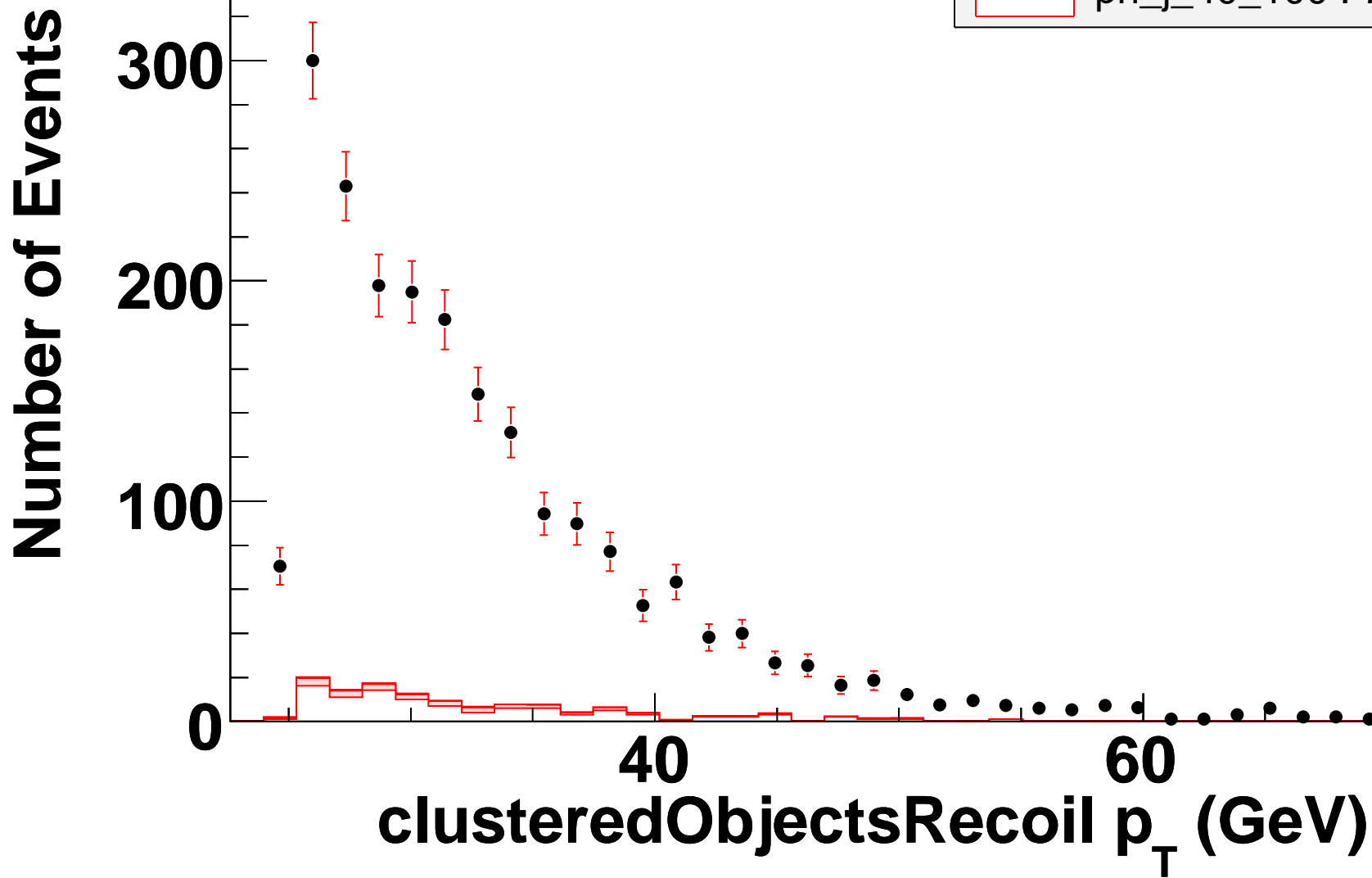
ph_j_200_inf : 3.4%

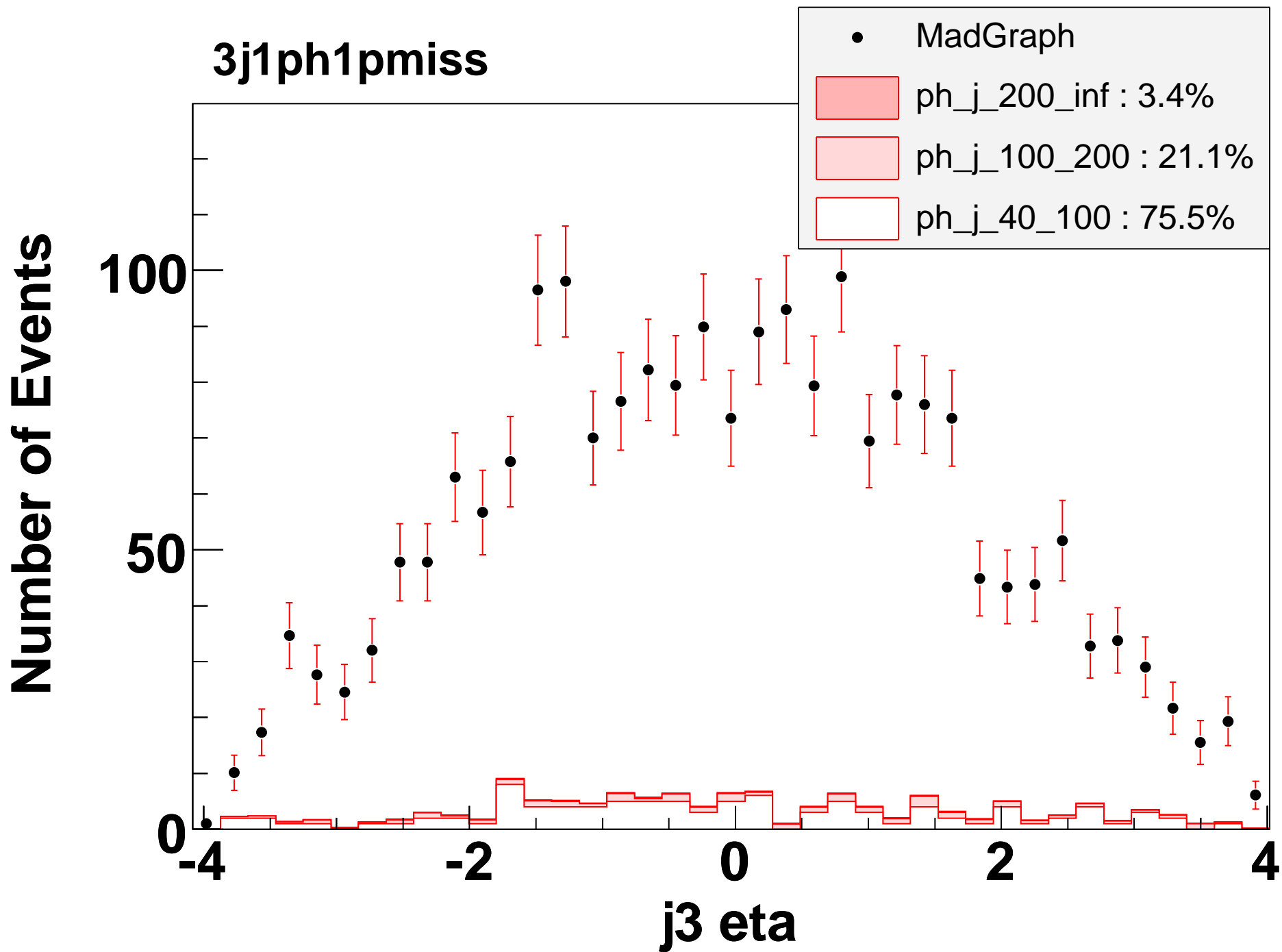
ph_j_100_200 : 21.1%

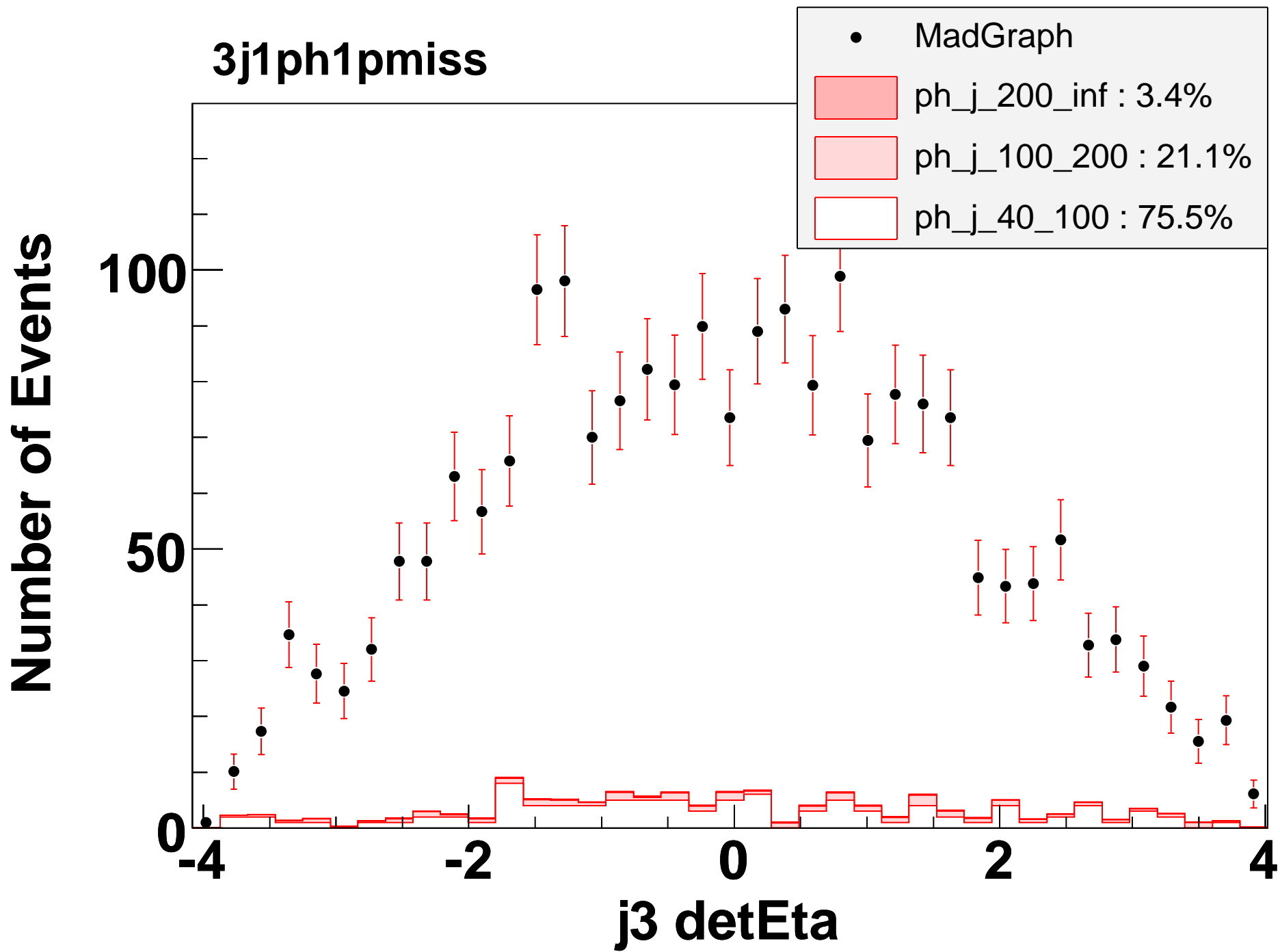
ph_j_40_100 : 75.5%

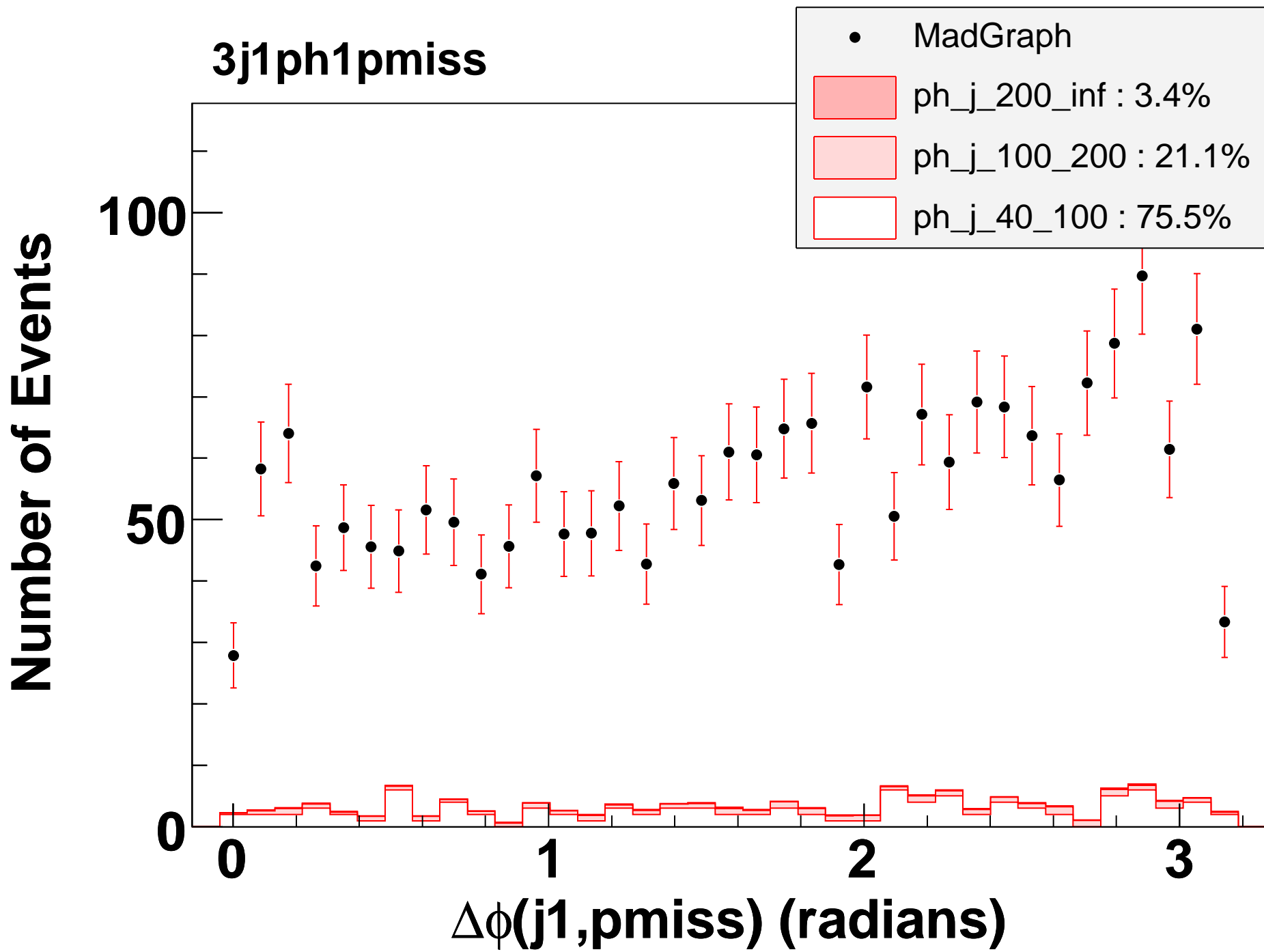


3j1ph1pmiss









3j1ph1pmiss

Number of Events

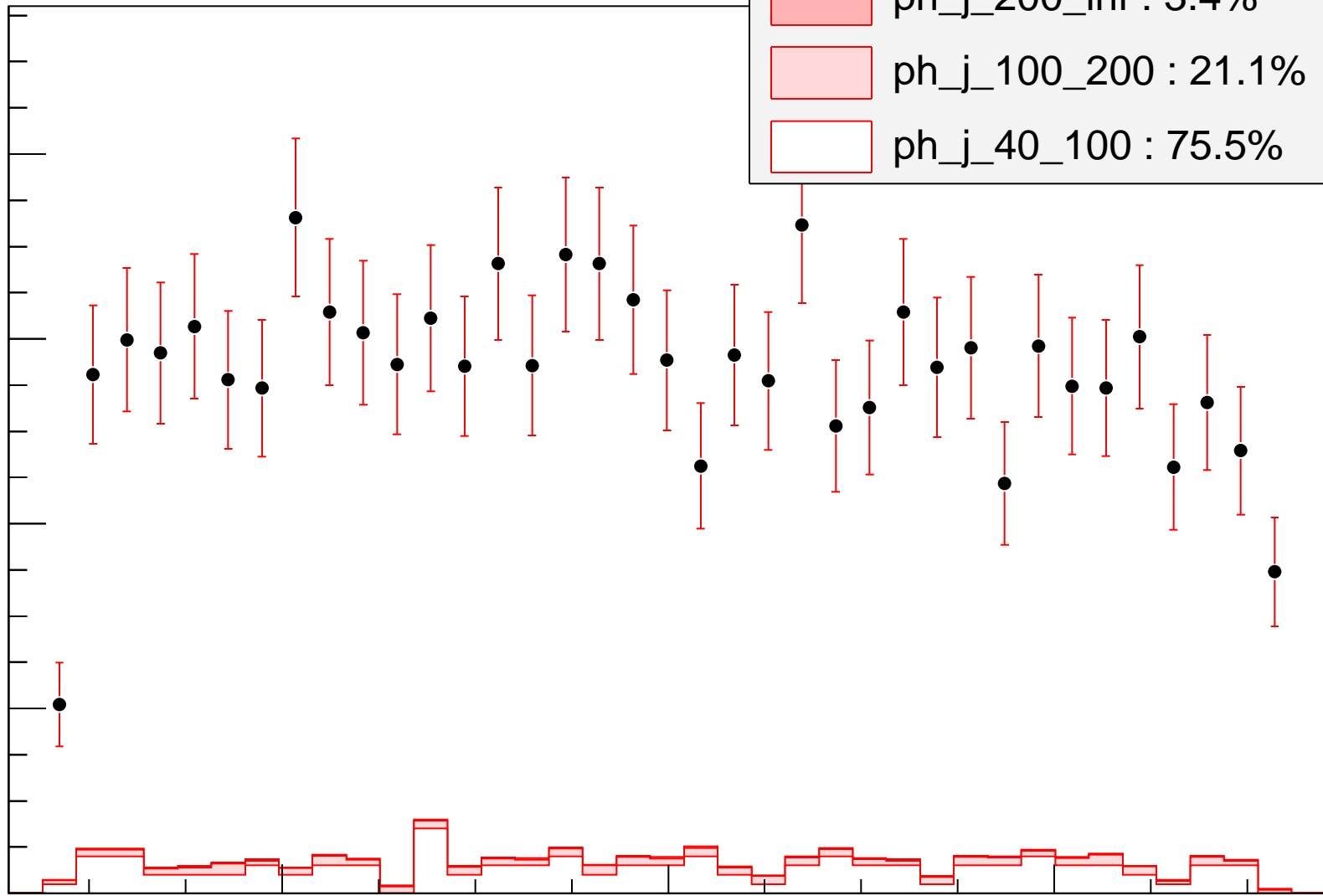
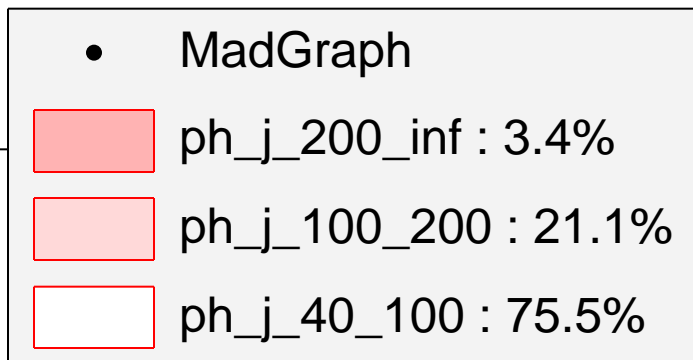
80
60
40
20
0

-2

0

2

$j_3 \phi$ (radians)



3j1ph1pmiss

Number of Events

2000

1000

0

-0.5

0

0.5

1

uncl p_T (GeV)

• MadGraph

ph_j_200_inf : 3.4%

ph_j_100_200 : 21.1%

ph_j_40_100 : 75.5%

