

Events

CMS $N_{\text{hits}} \geq 100$

- - - $m_S = 3$ GeV
- - - $m_S = 7$ GeV
- · - · $m_S = 15$ GeV
- · · $m_S = 40$ GeV
- · - · $m_S = 55$ GeV
- Background
- Data

 $S \rightarrow d\bar{d}$ $c\tau = 1$ m $B(H \rightarrow SS) = 1\%$

10

1

0

0.5

1

1.5

2

2.5

3

3.5

 $\Delta\phi(\vec{p}_T^{\text{miss}}, \text{cluster})$ [radians]