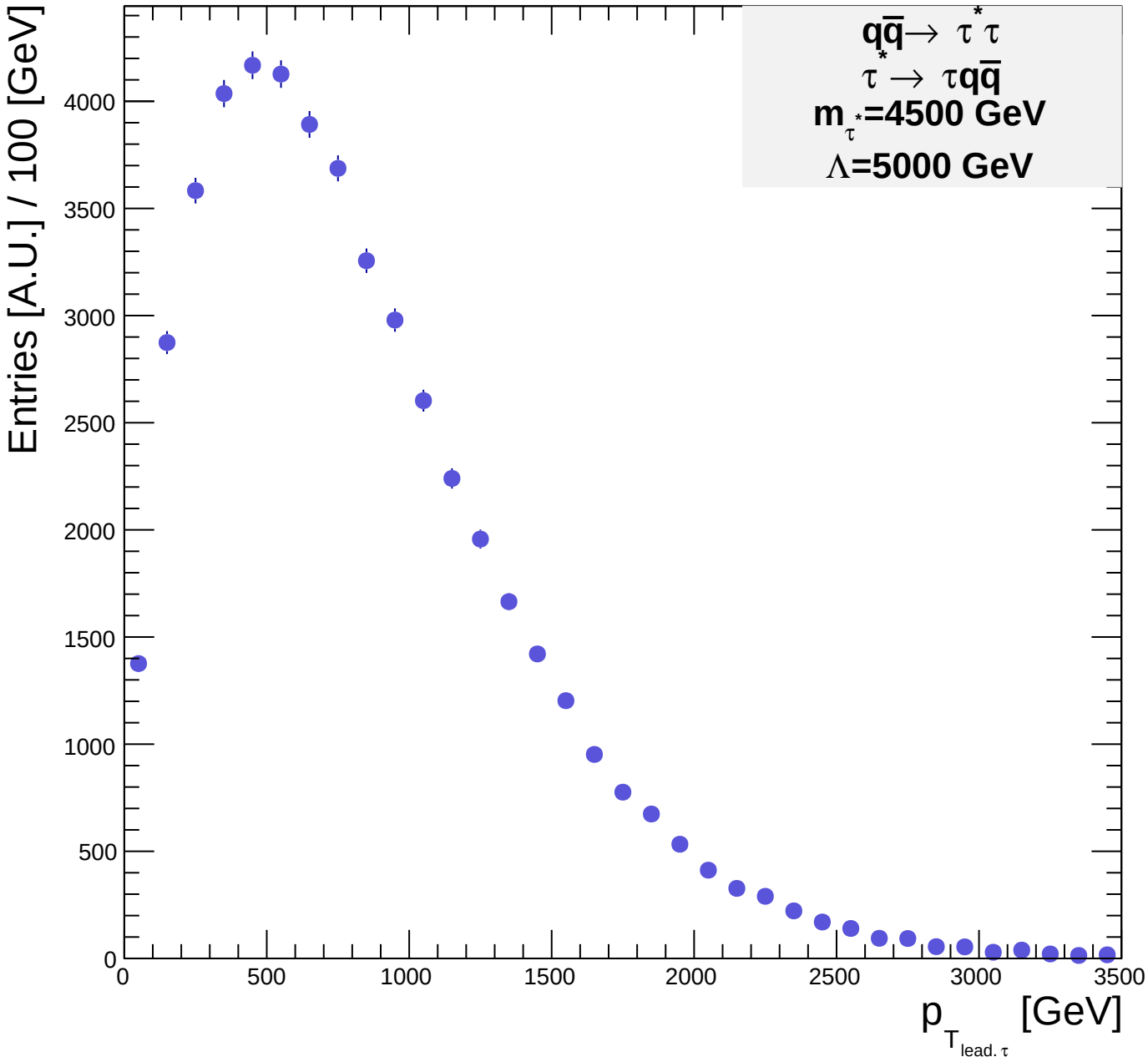
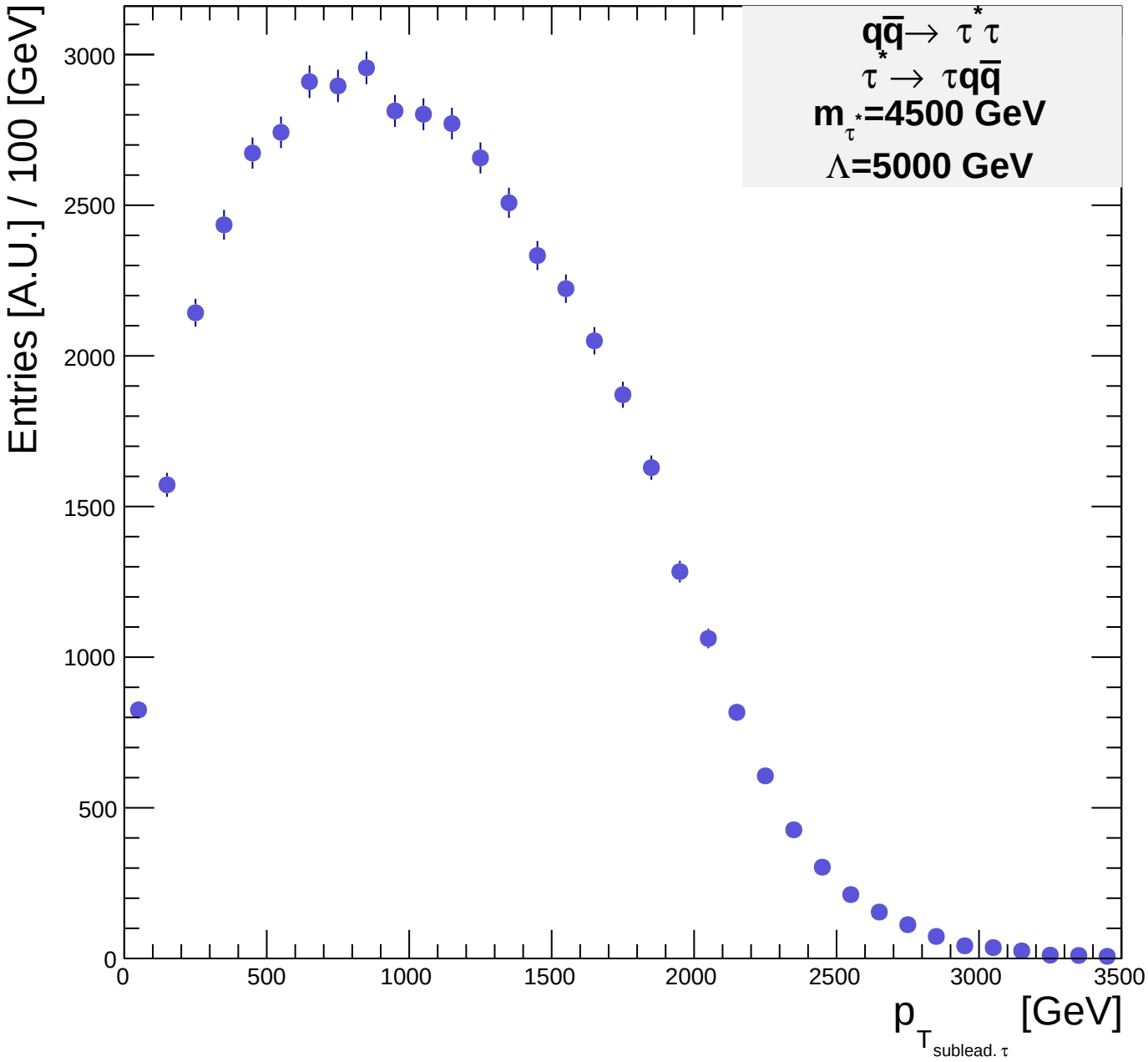
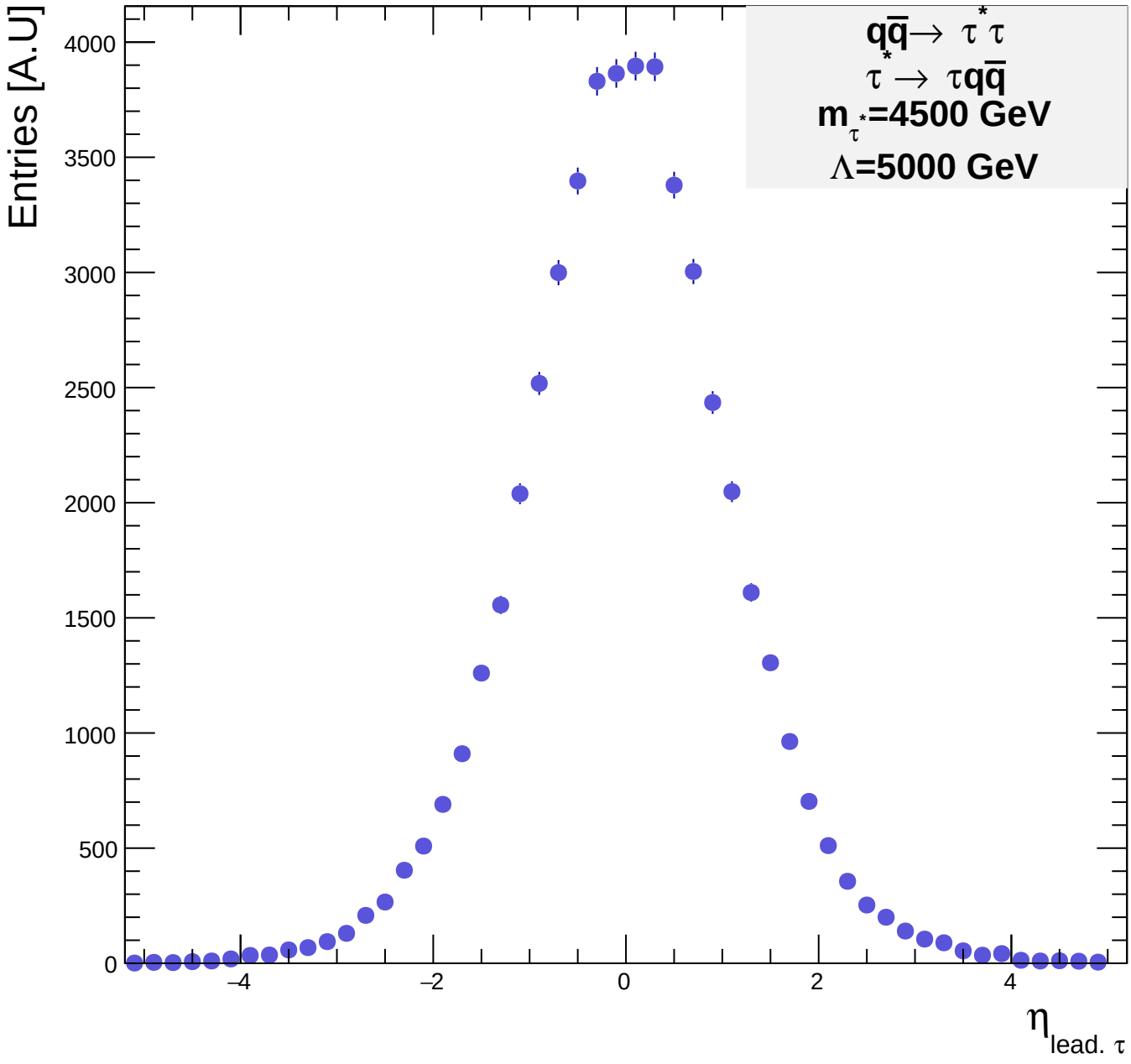
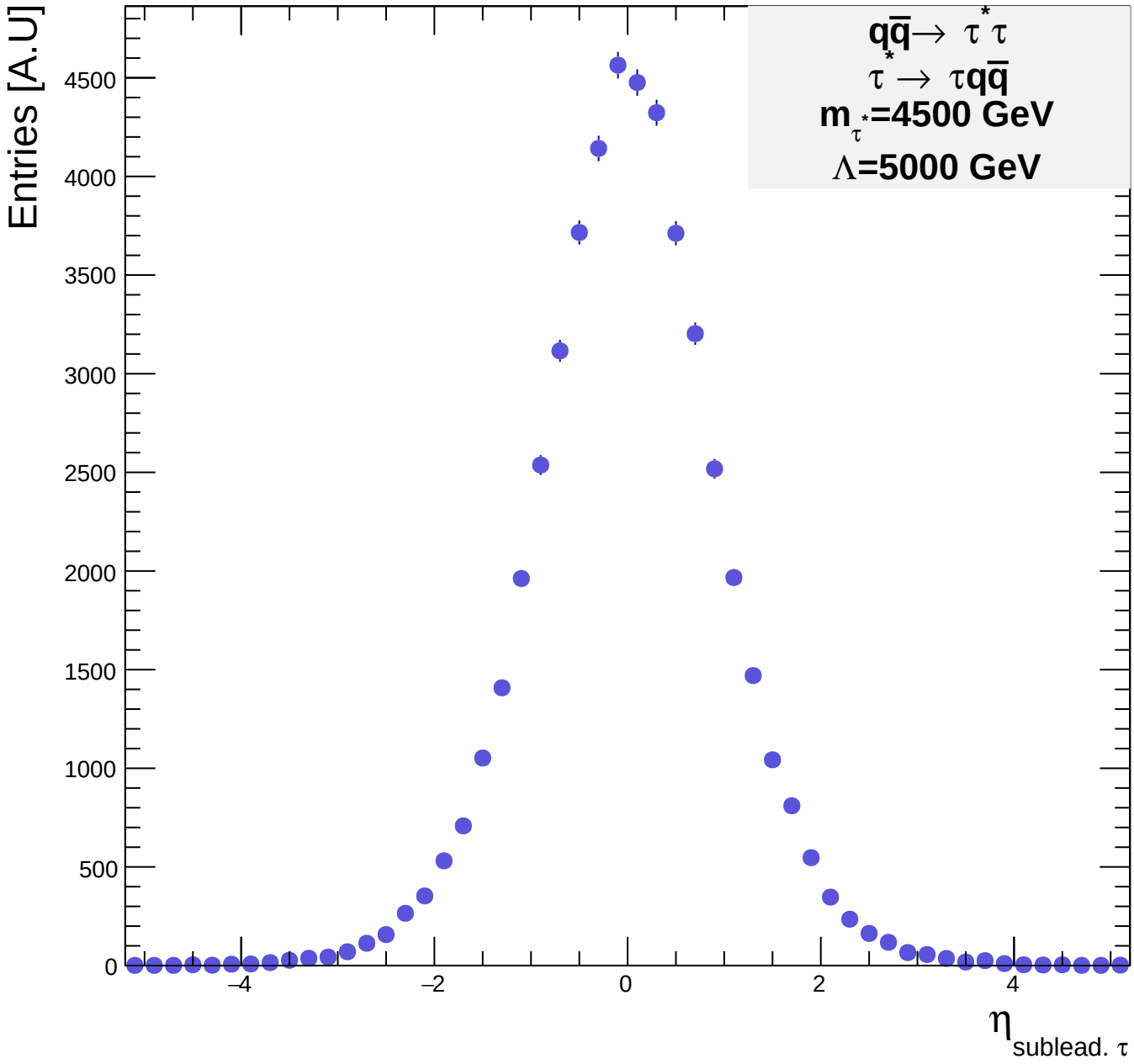
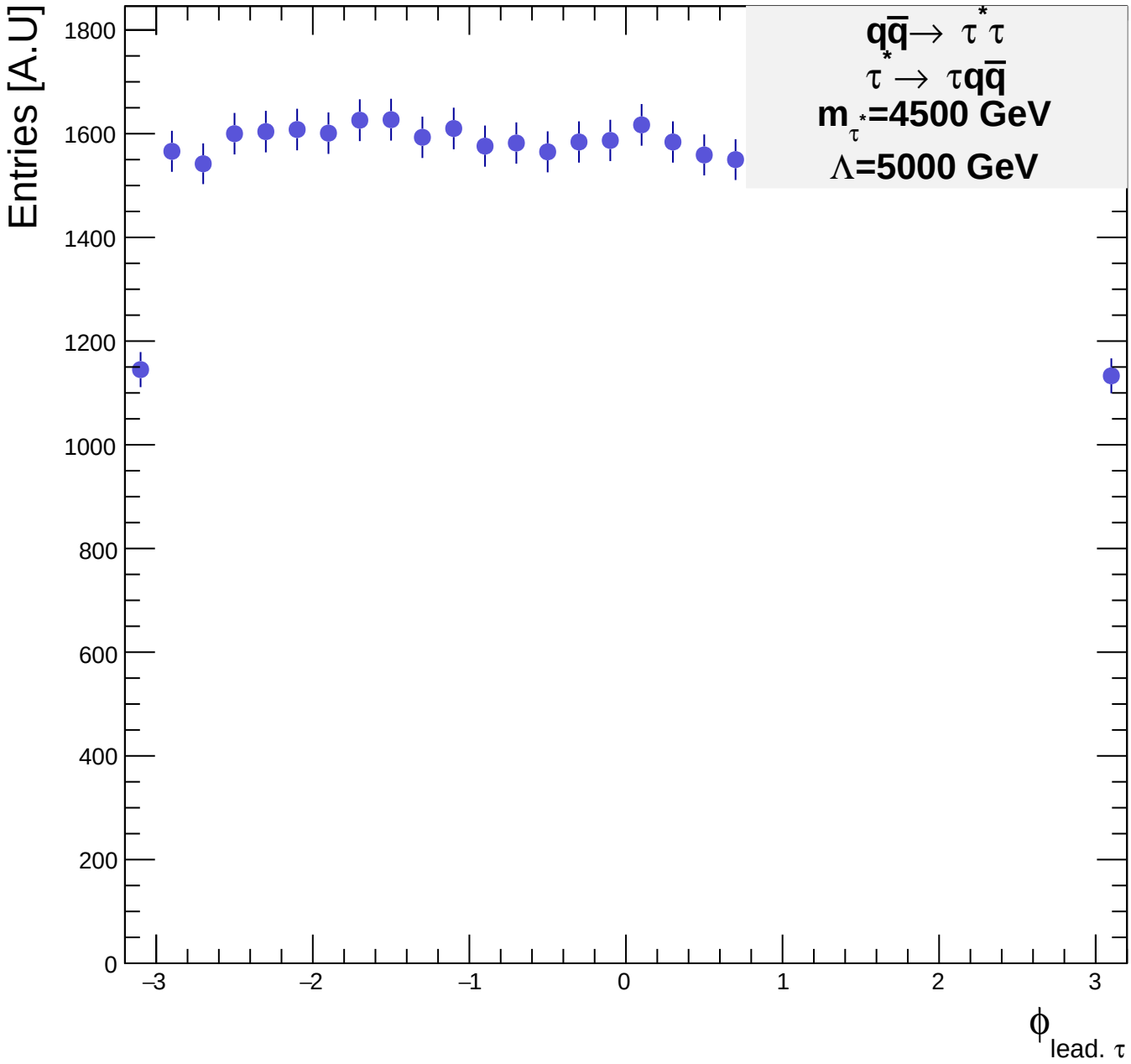
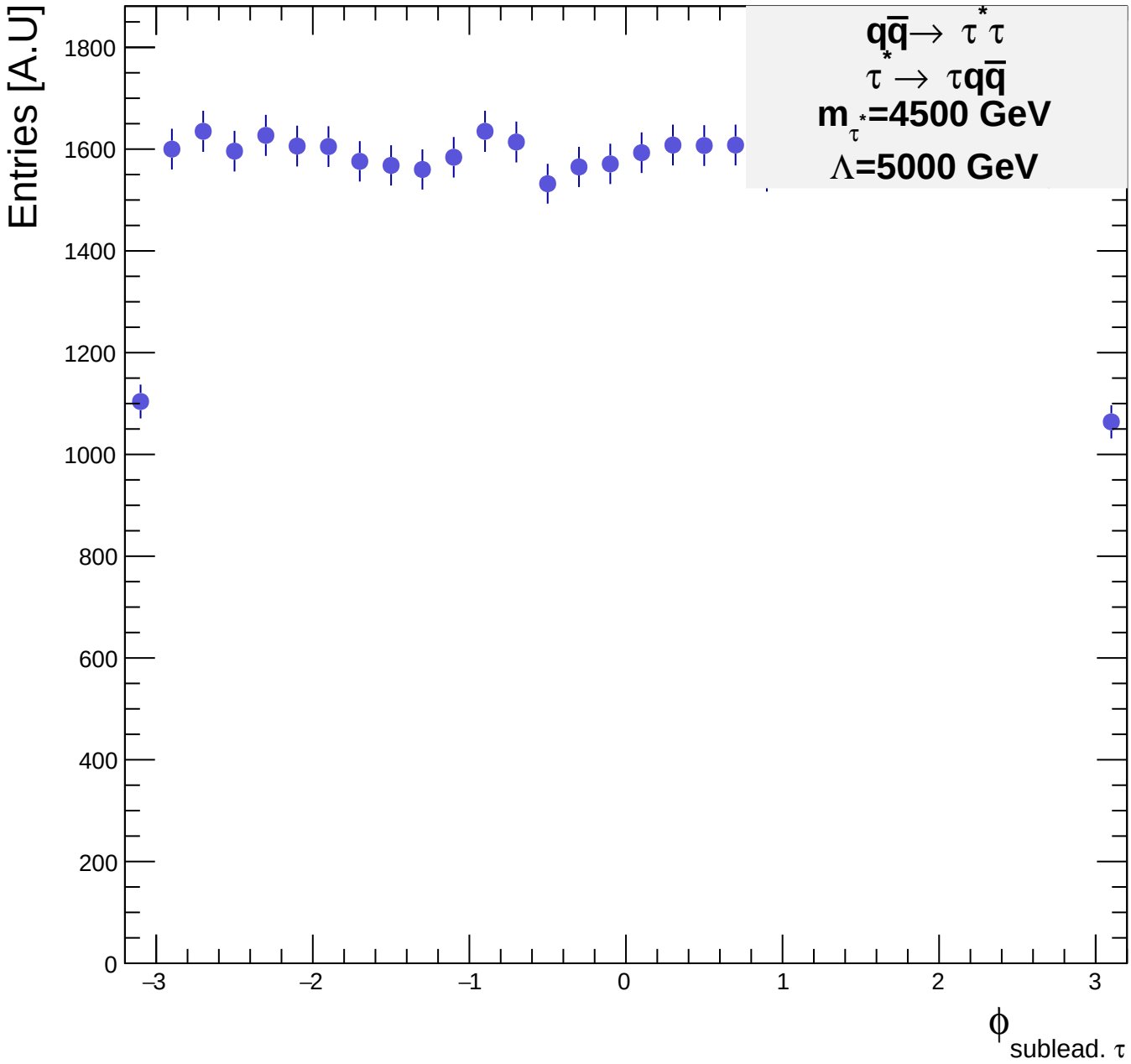

$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U.] / 100 [GeV]
0
500
1000
1500
2000
2500
3000
3500
4000
$p_{T_{lead.\tau}}$ [GeV]

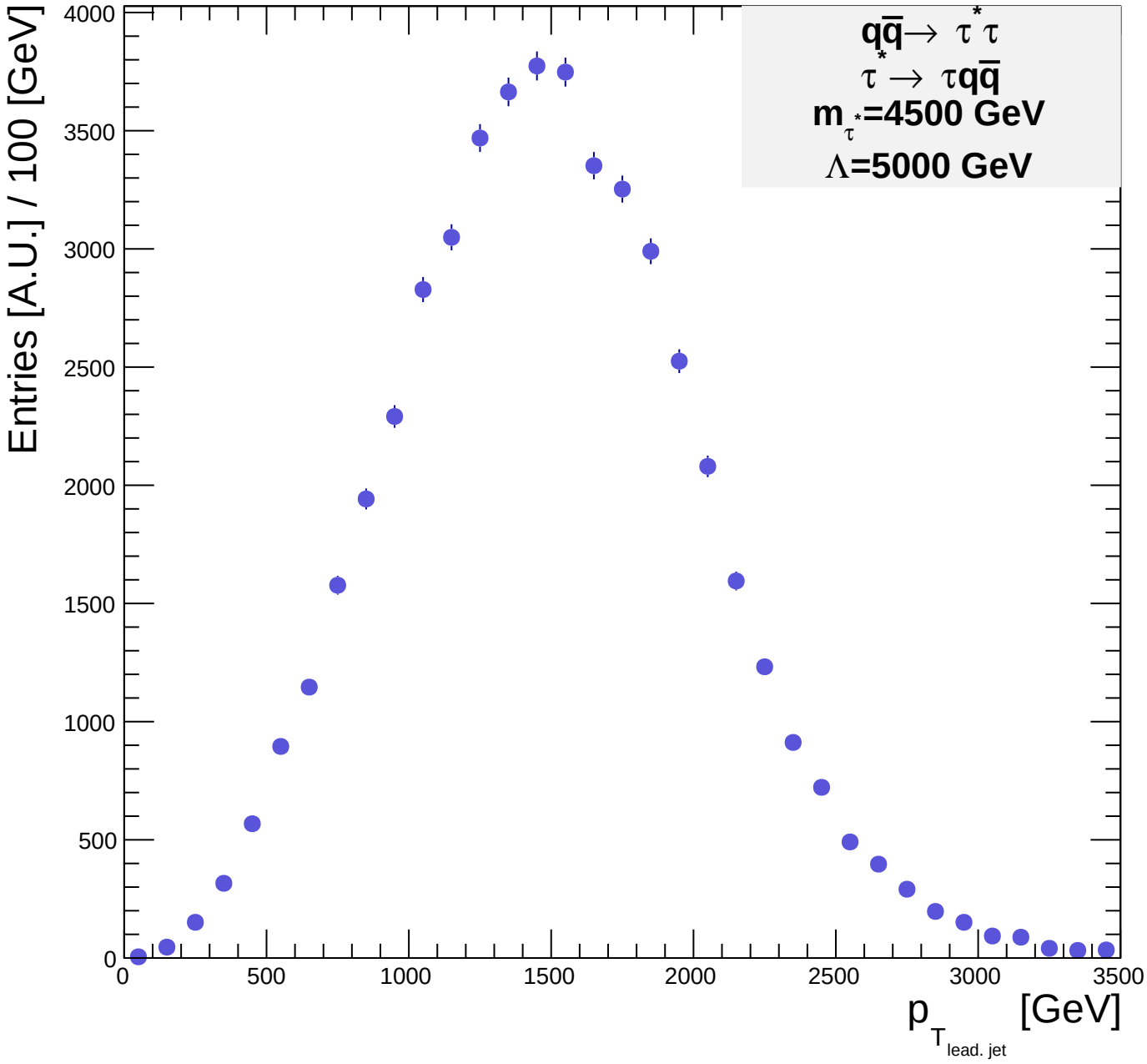

$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U.] / 100 [GeV]
0
500
1000
1500
2000
2500
3000
0
500
1000
1500
2000
2500
3000
3500
$p_{T_{sublead.\,\tau}}$ [GeV]

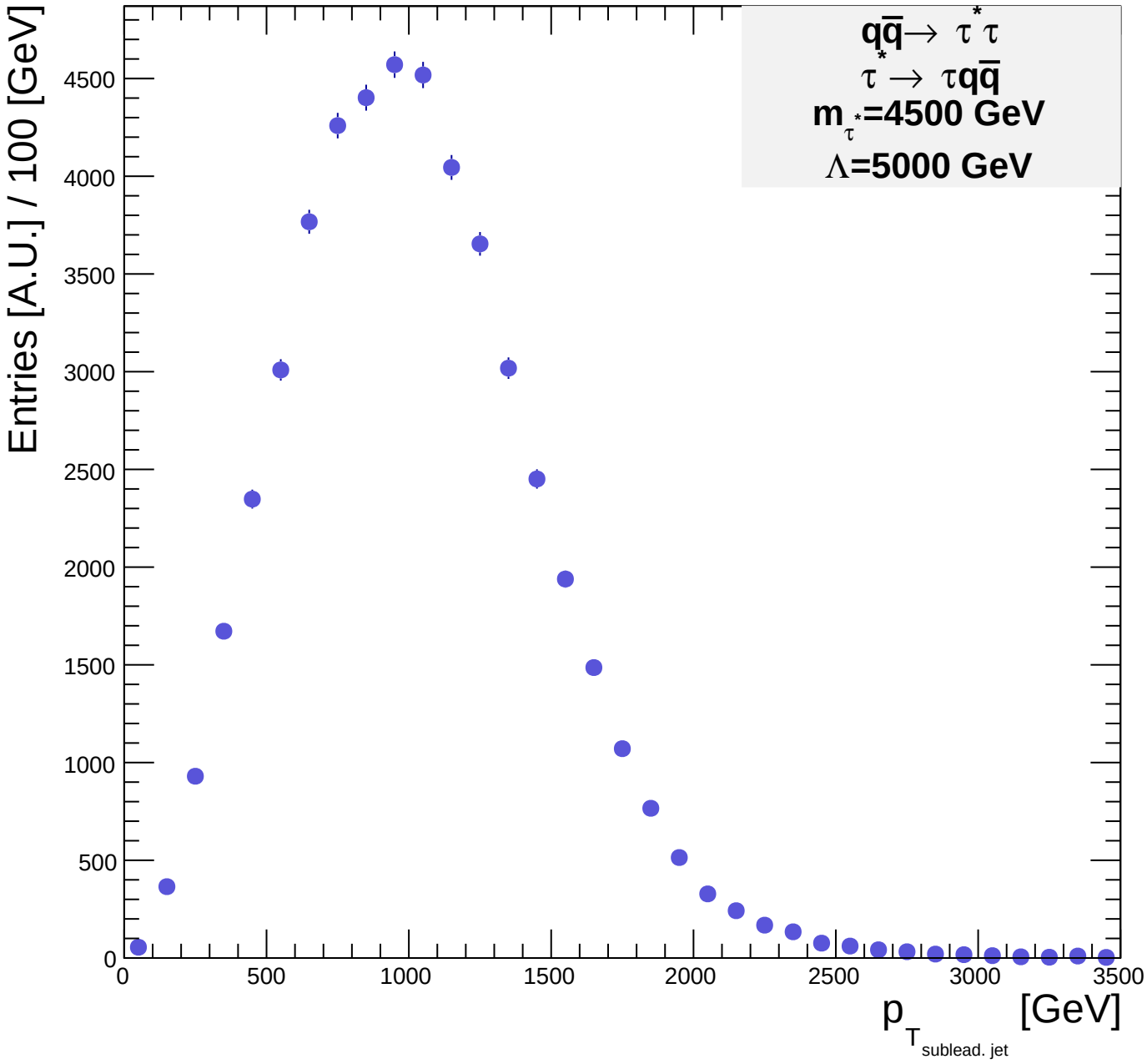

$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U]
4000
3500
3000
2500
2000
1500
1000
500
0
−4
−2
0
2
4
$\eta_{\text{lead. }\tau}$

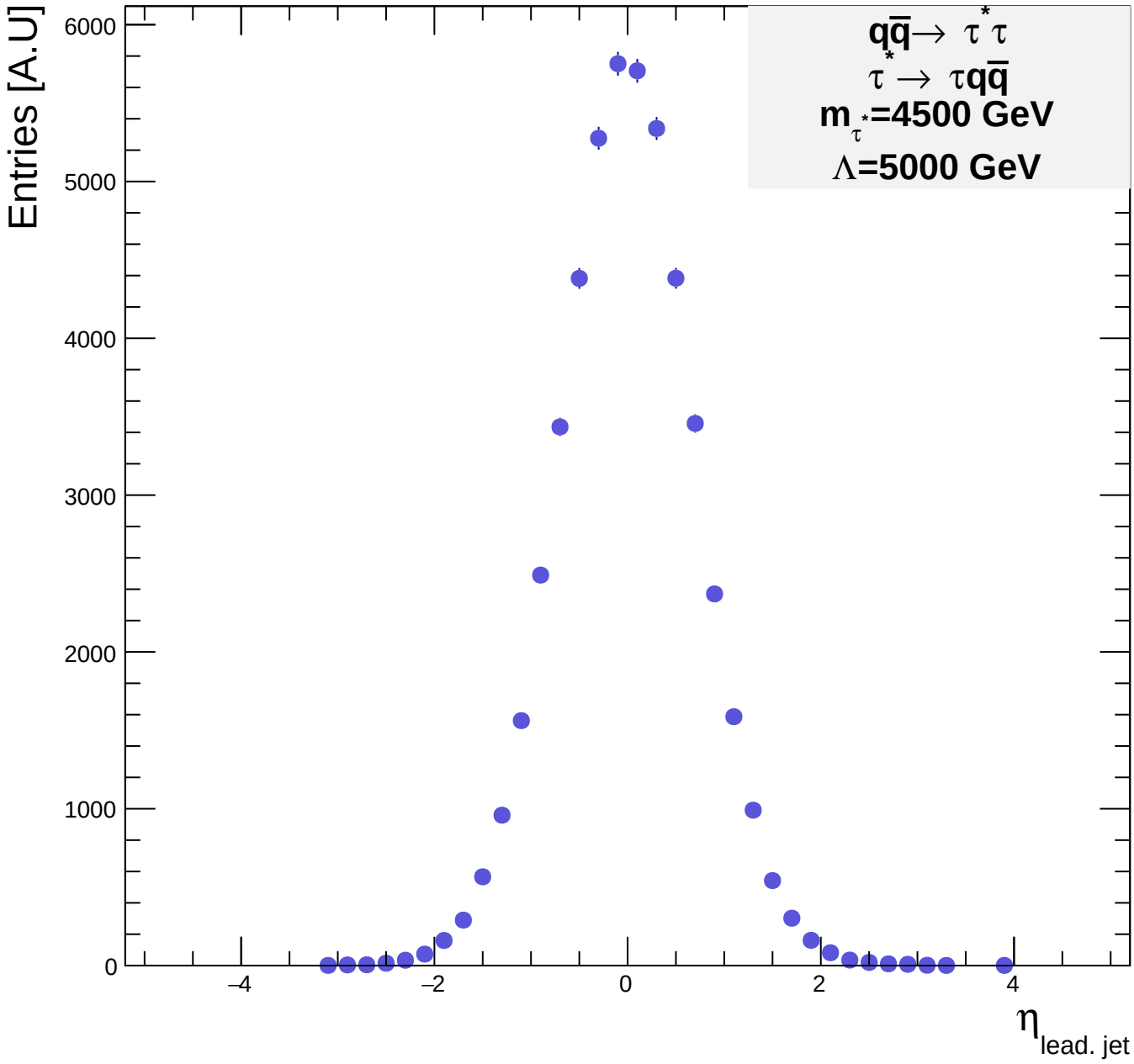

$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U]
4500
4000
3500
3000
2500
2000
1500
1000
500
0
–4
–2
0
2
4
$\eta_{\text{sublead. }\tau}$

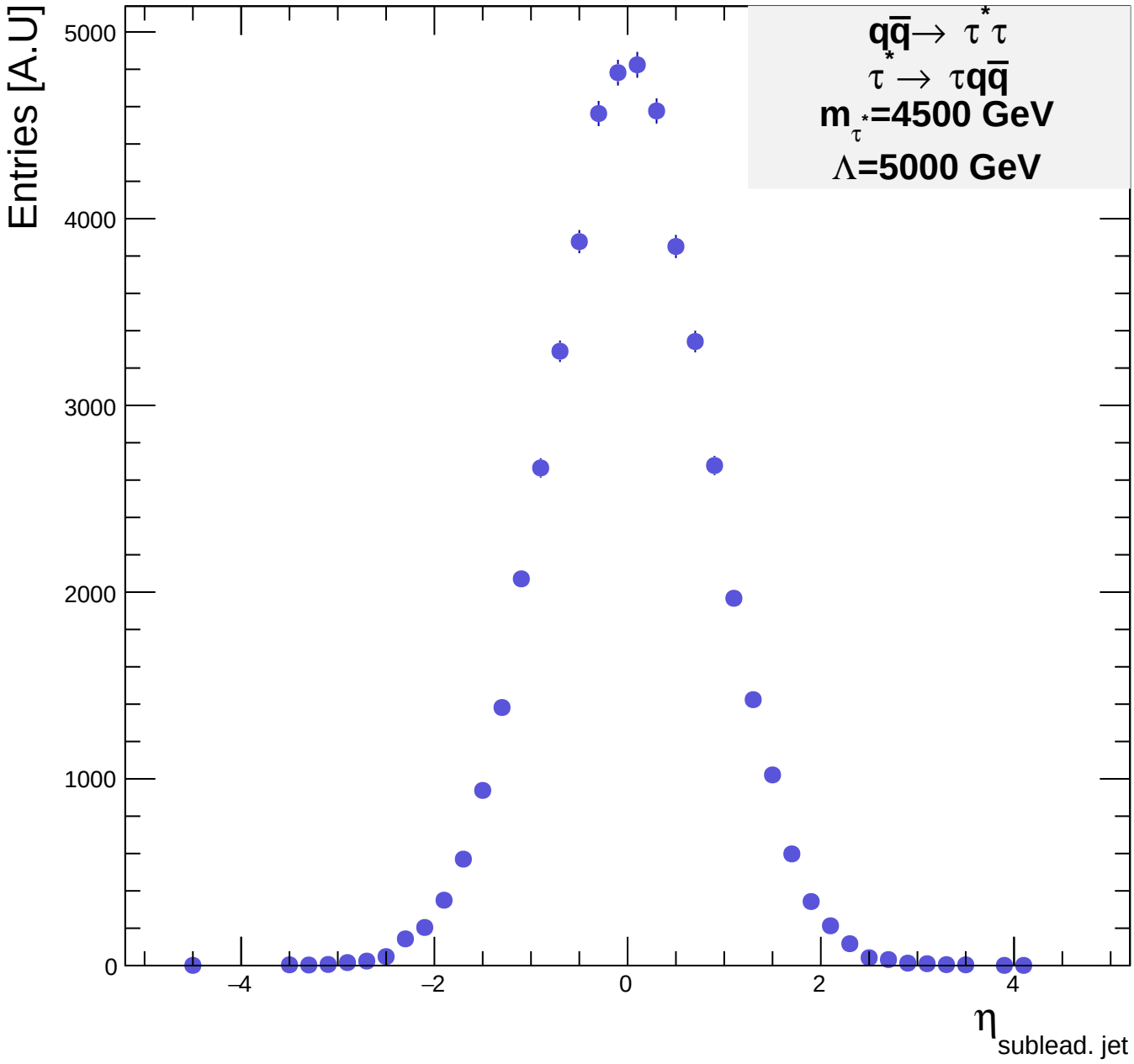

Entries [A.U]
1800
1600
1400
1200
1000
800
600
400
200
0
–3
–2
–1
0
1
2
3
$\phi_{\text{lead. }\tau}$
$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV

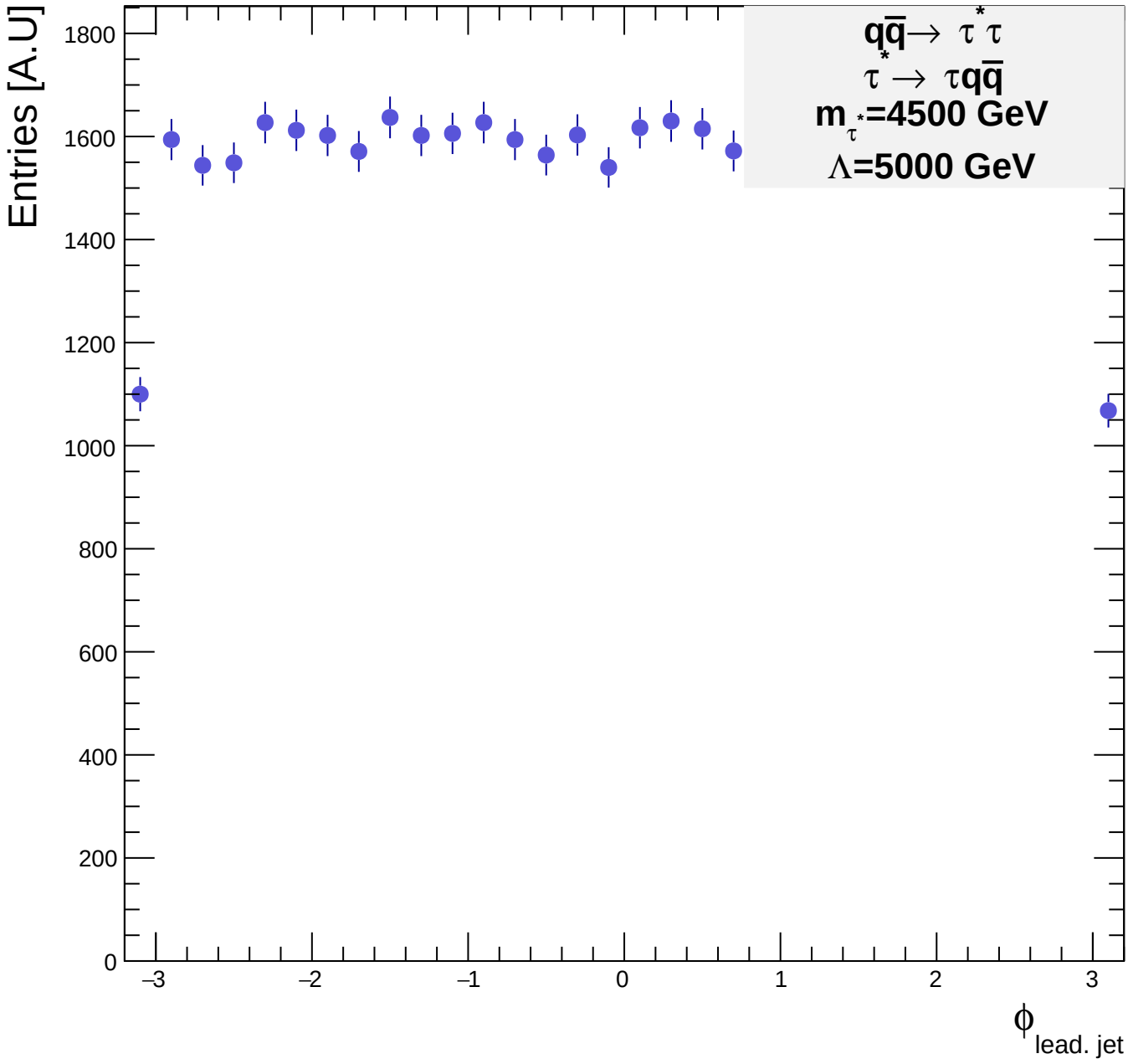

$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U]
1800
1600
1400
1200
1000
800
600
400
200
0
–3
–2
–1
0
1
2
3
$\phi_{\text{sublead. }\tau}$

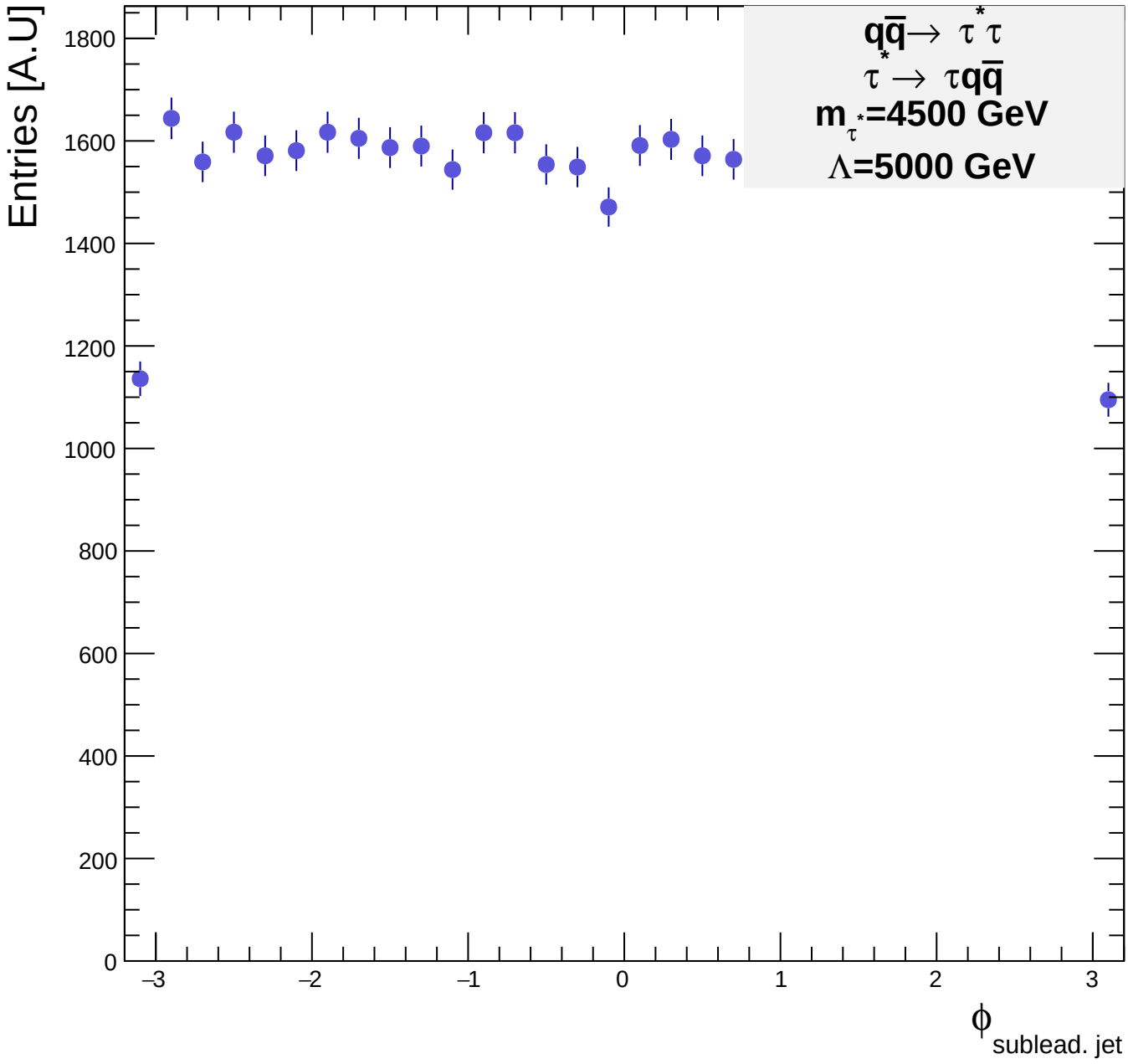

$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U.] / 100 [GeV]
$p_{T_{lead.\ jet}}$ [GeV]
0
500
1000
1500
2000
2500
3000
3500
4000

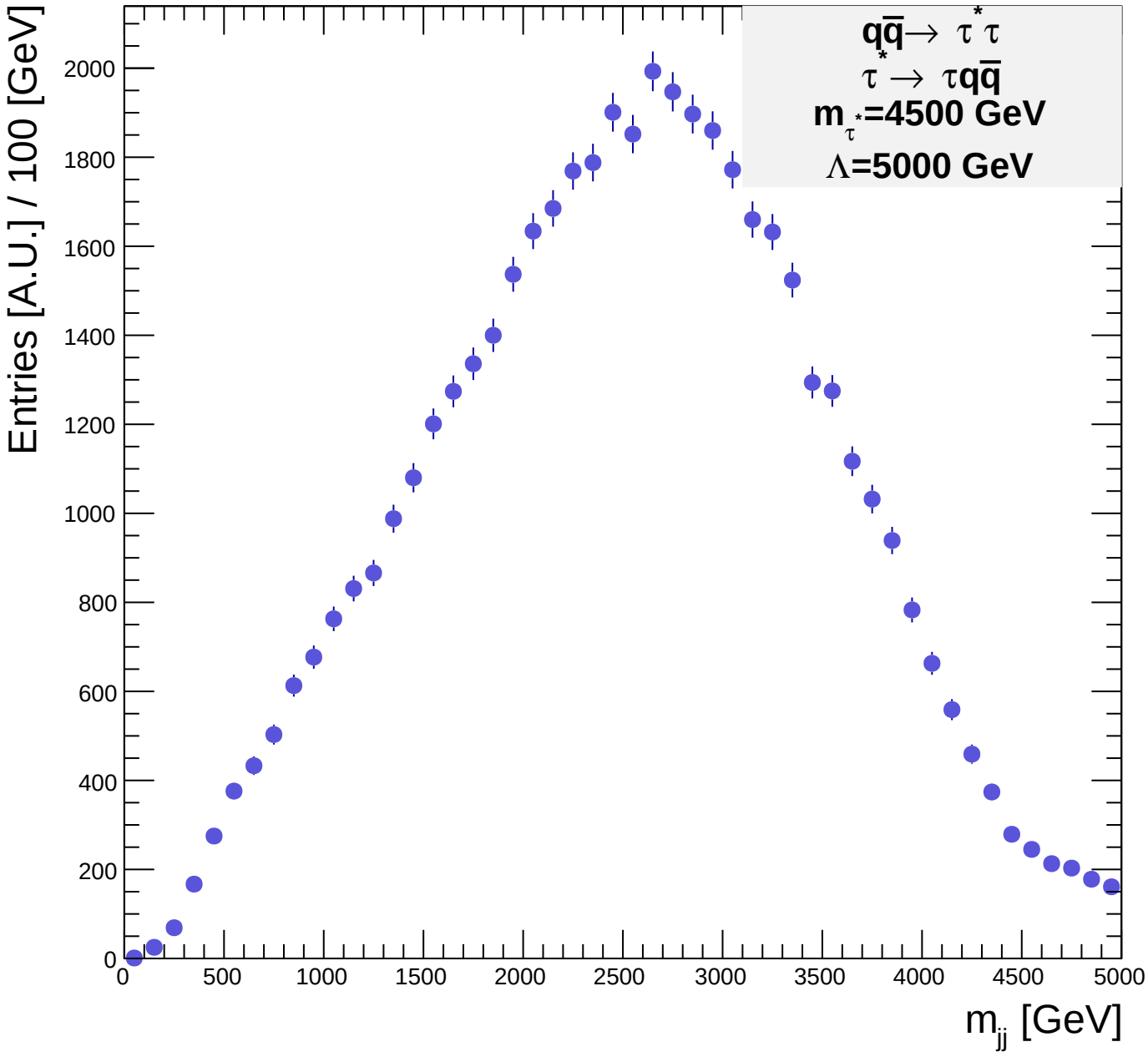

$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U.] / 100 [GeV]
0
500
1000
1500
2000
2500
3000
3500
4000
4500
0
500
1000
1500
2000
2500
3000
3500
$p_{T_{\text{sublead. jet}}}$ [GeV]

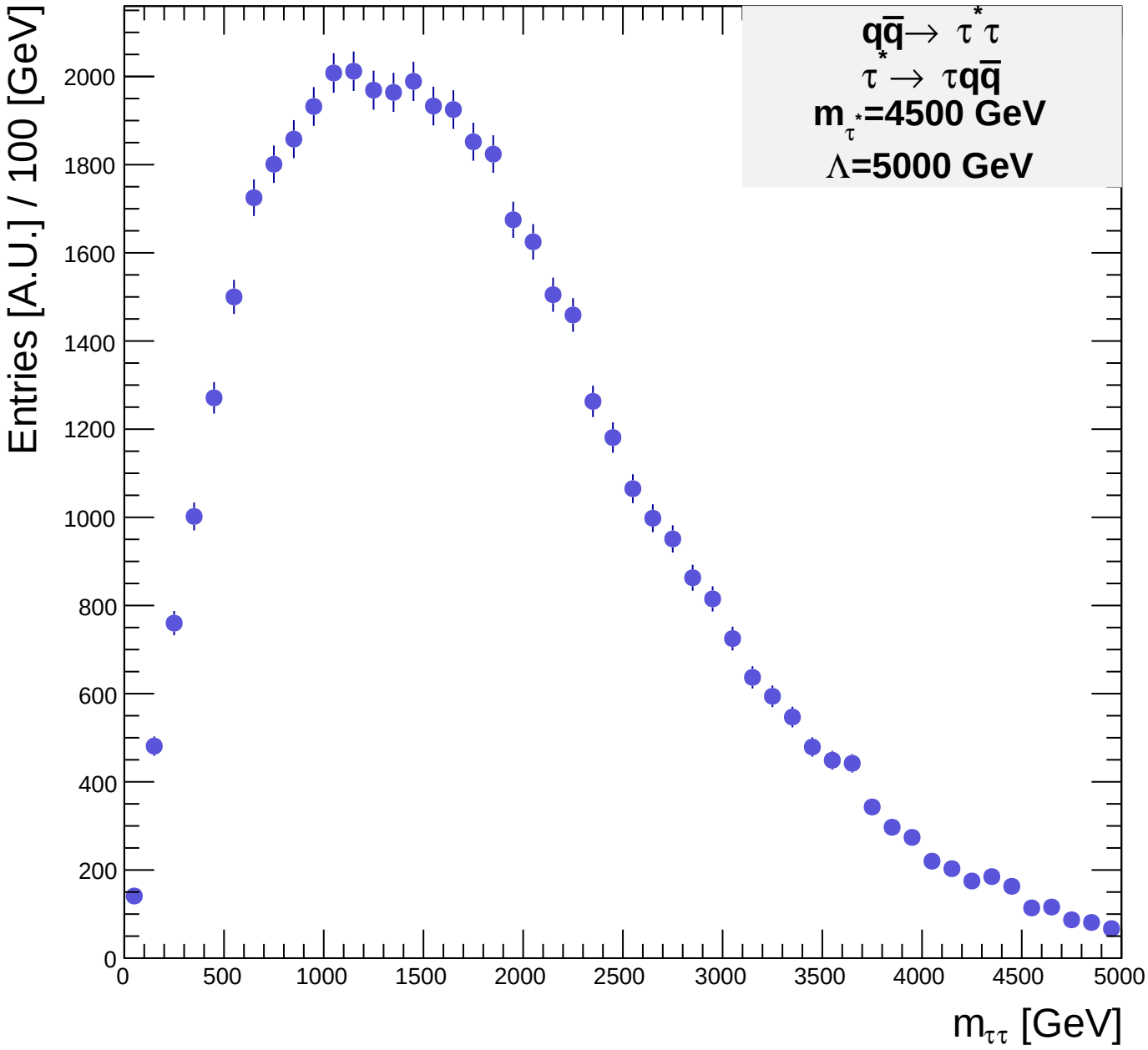

$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U]
6000
5000
4000
3000
2000
1000
0
–4
–2
0
2
4
$\eta_{\text{lead. jet}}$

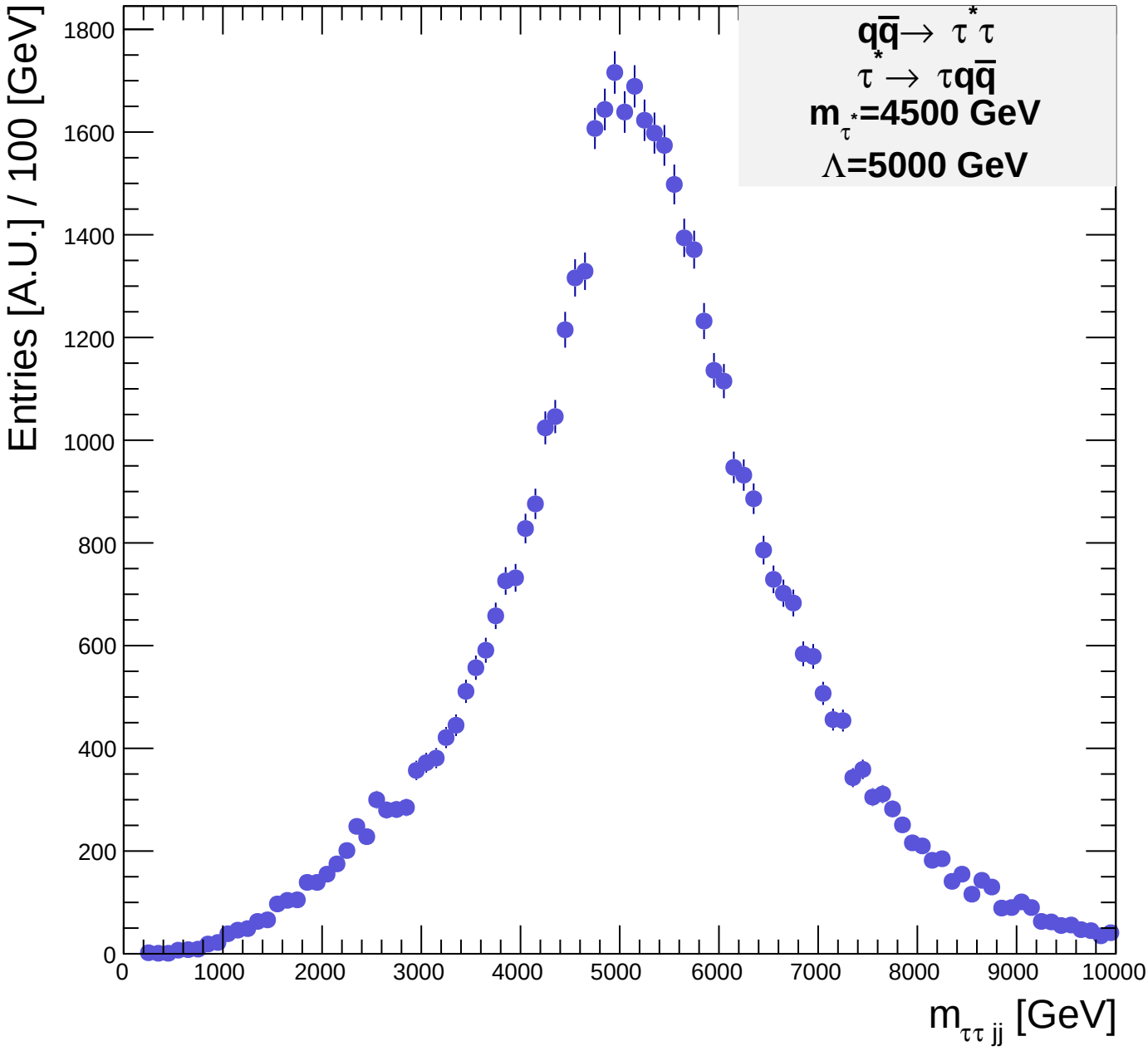

$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U]
5000
4000
3000
2000
1000
0
–4
–2
0
2
4
$\eta_{\text{sublead. jet}}$

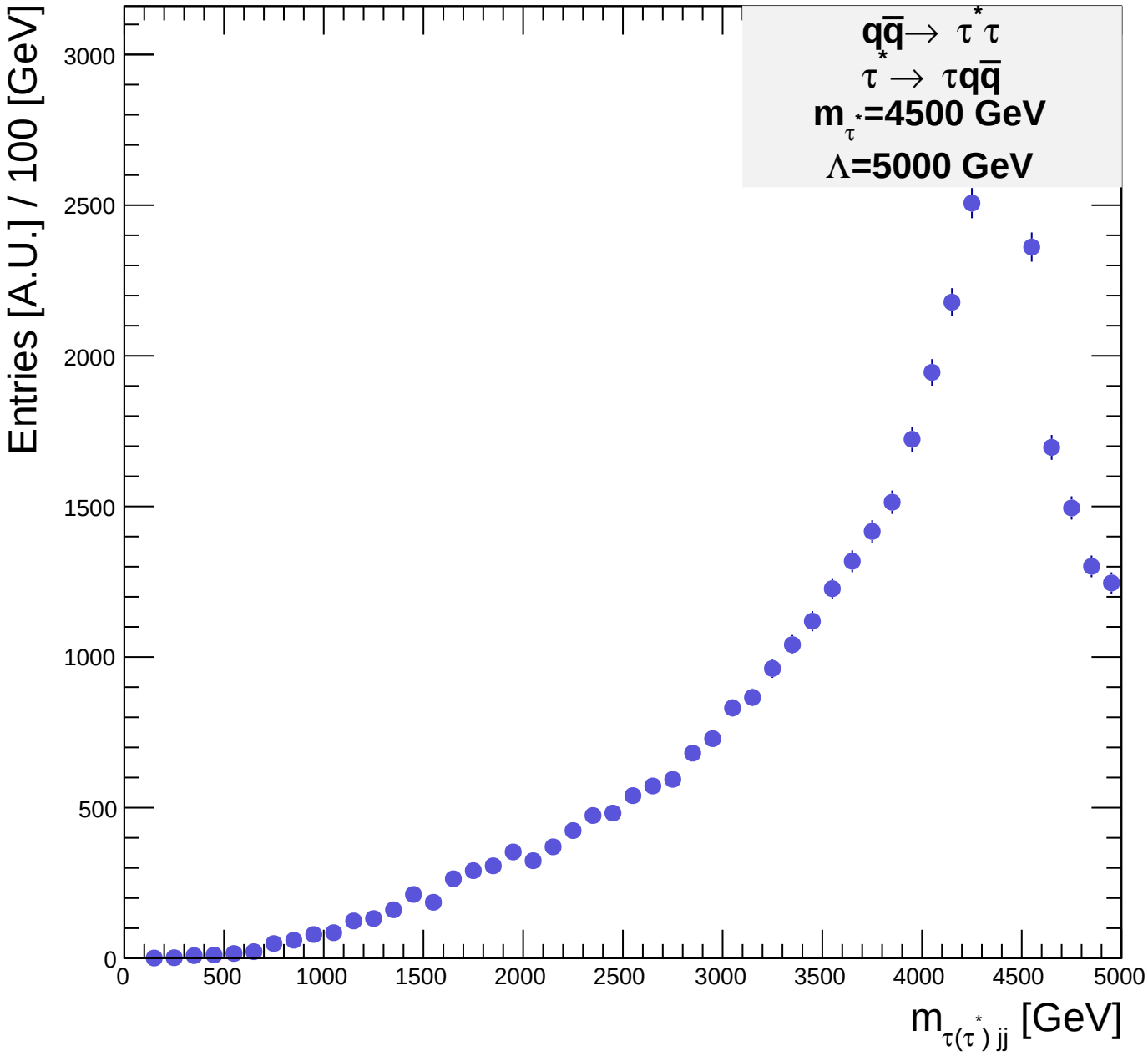

Entries [A.U]
1800
1600
1400
1200
1000
800
600
400
200
0
–3
–2
–1
0
1
2
3
$\phi_{\text{lead. jet}}$
$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV

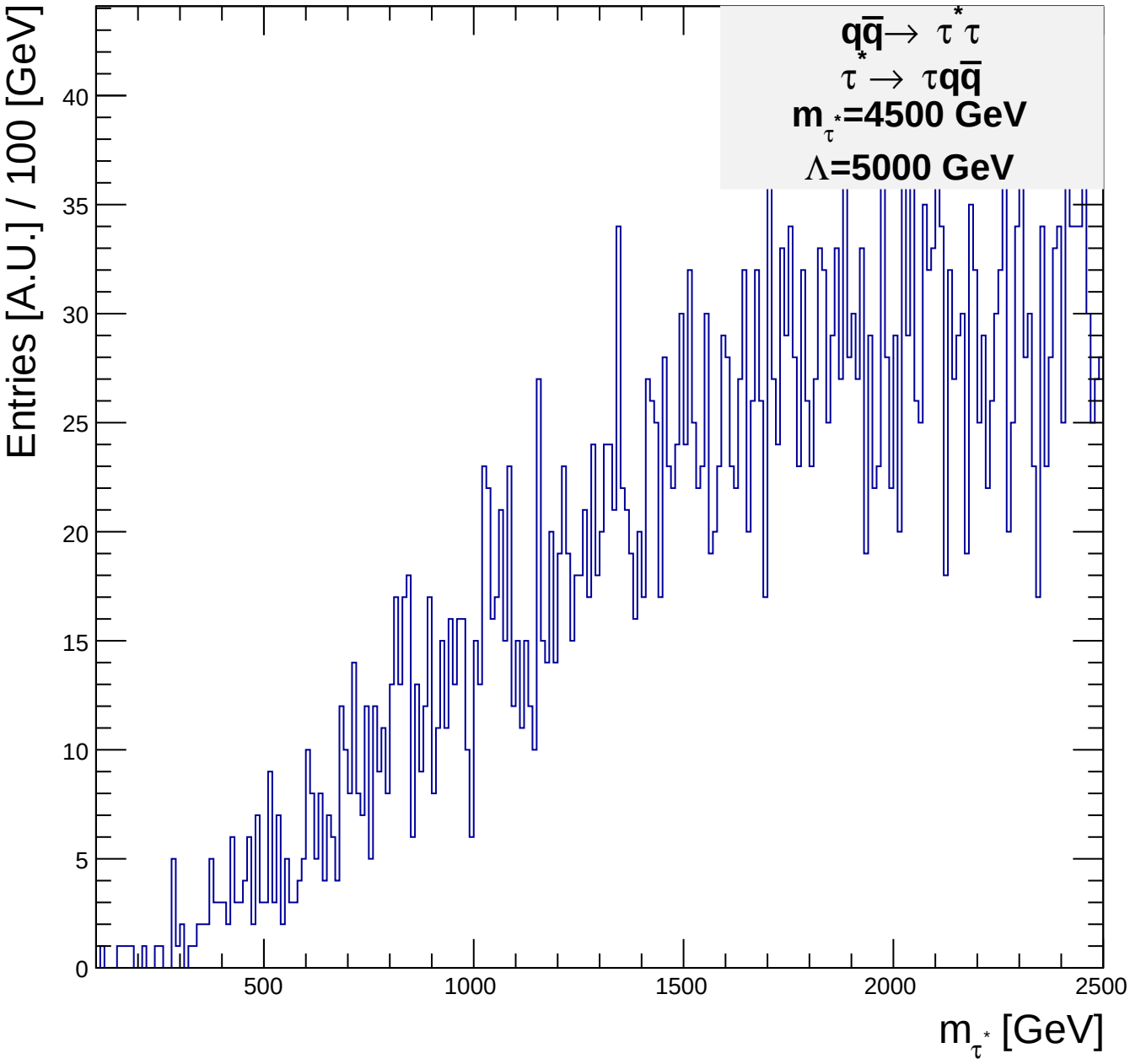

Entries [A.U]
1800
1600
1400
1200
1000
800
600
400
200
0
–3
–2
–1
0
1
2
3
$\phi_{\text{sublead. jet}}$
$q\bar{q} \to \tau^* \tau$
$\tau^* \to \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV

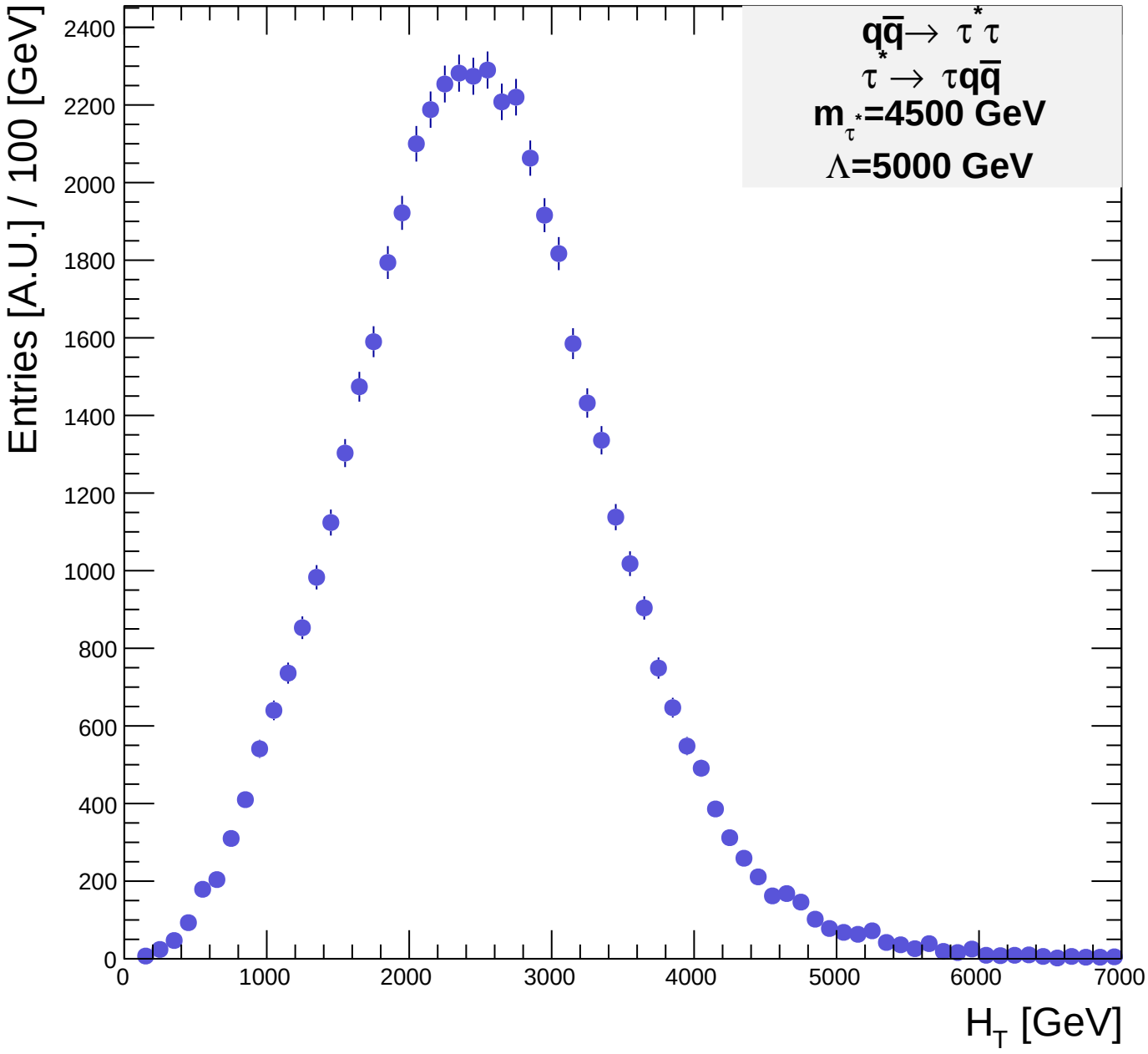

$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U.] / 100 [GeV]
m_{jj} [GeV]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000

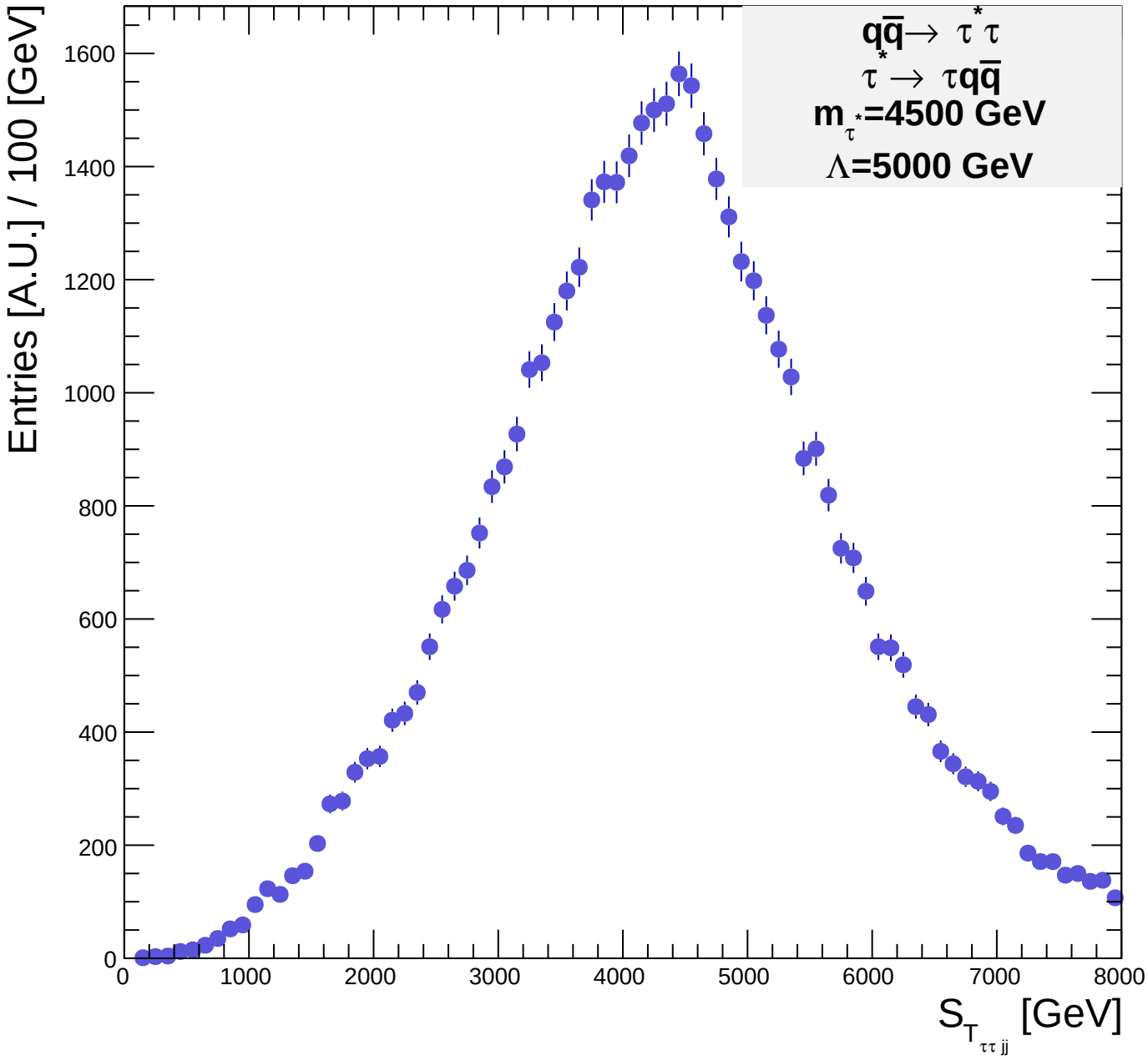

$q\bar{q} \to \tau^* \tau$
$\tau^* \to \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U.] / 100 [GeV]
$m_{\tau\tau}$ [GeV]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000


$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U.] / 100 [GeV]
$m_{\tau\tau\ jj}$ [GeV]
0
200
400
600
800
1000
1200
1400
1600
1800
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000


$q\bar{q} \to \tau^* \tau$
$\tau^* \to \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U.] / 100 [GeV]
$m_{\tau(\tau^*)jj}$ [GeV]
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000


$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U.] / 100 [GeV]
0
5
10
15
20
25
30
35
40
500
1000
1500
2000
2500
m_{τ^*} [GeV]


$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U.] / 100 [GeV]
H_T [GeV]
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
0
1000
2000
3000
4000
5000
6000
7000


$q\bar{q} \rightarrow \tau^* \tau$
$\tau^* \rightarrow \tau q\bar{q}$
m_{τ^*}=4500 GeV
Λ=5000 GeV
Entries [A.U.] / 100 [GeV]
0
200
400
600
800
1000
1200
1400
1600
0
1000
2000
3000
4000
5000
6000
7000
8000
$S_{T_{\tau\tau jj}}$ [GeV]