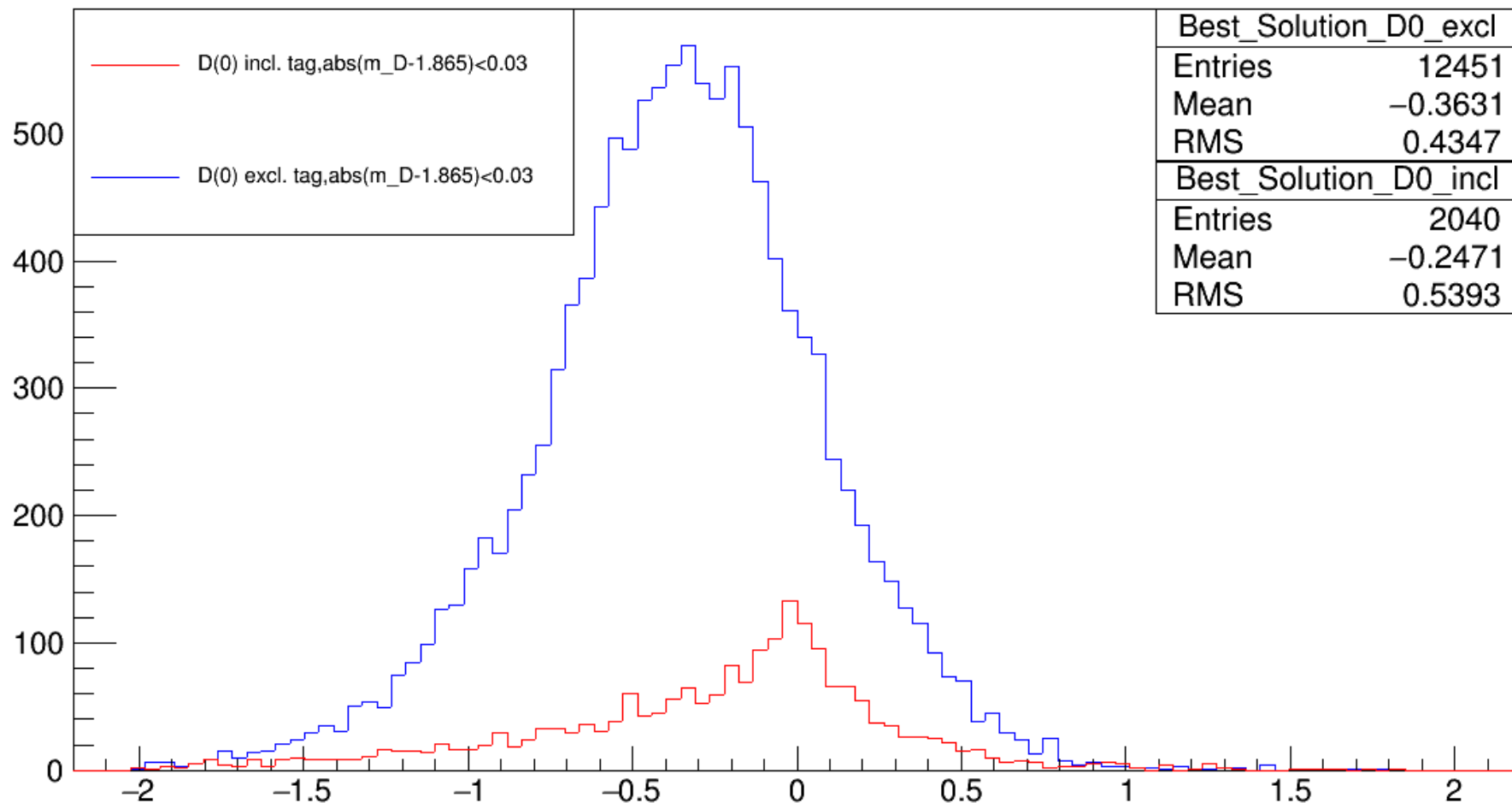


# Inclusive and exclusive generated sample comparison

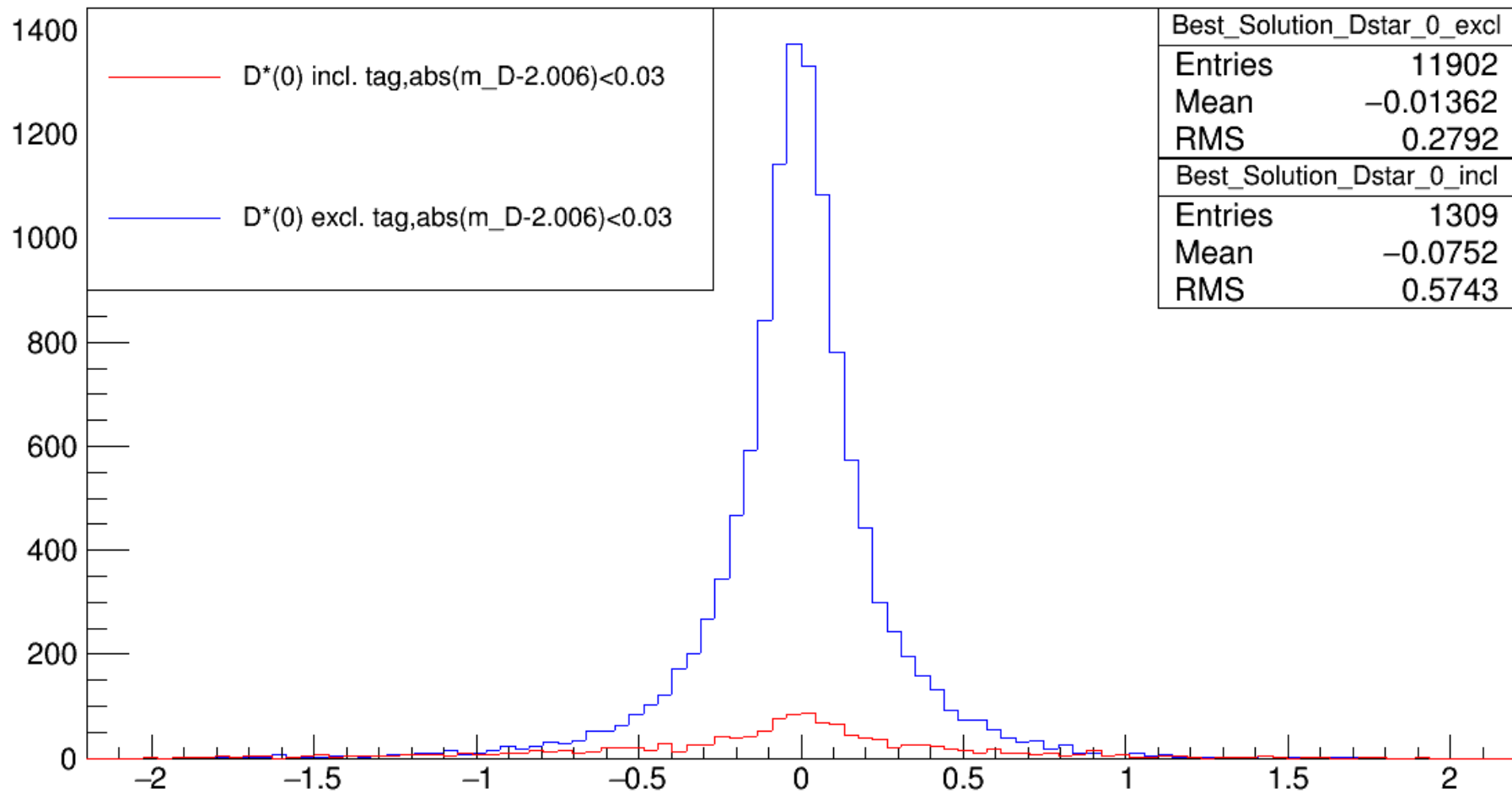
1 M sig. Events with incl. Tag side and  
400 k sig. events with excl. generated tag side  
 $B^+ \rightarrow K^+ \tau^- \mu^+$

19 Oct. 2023

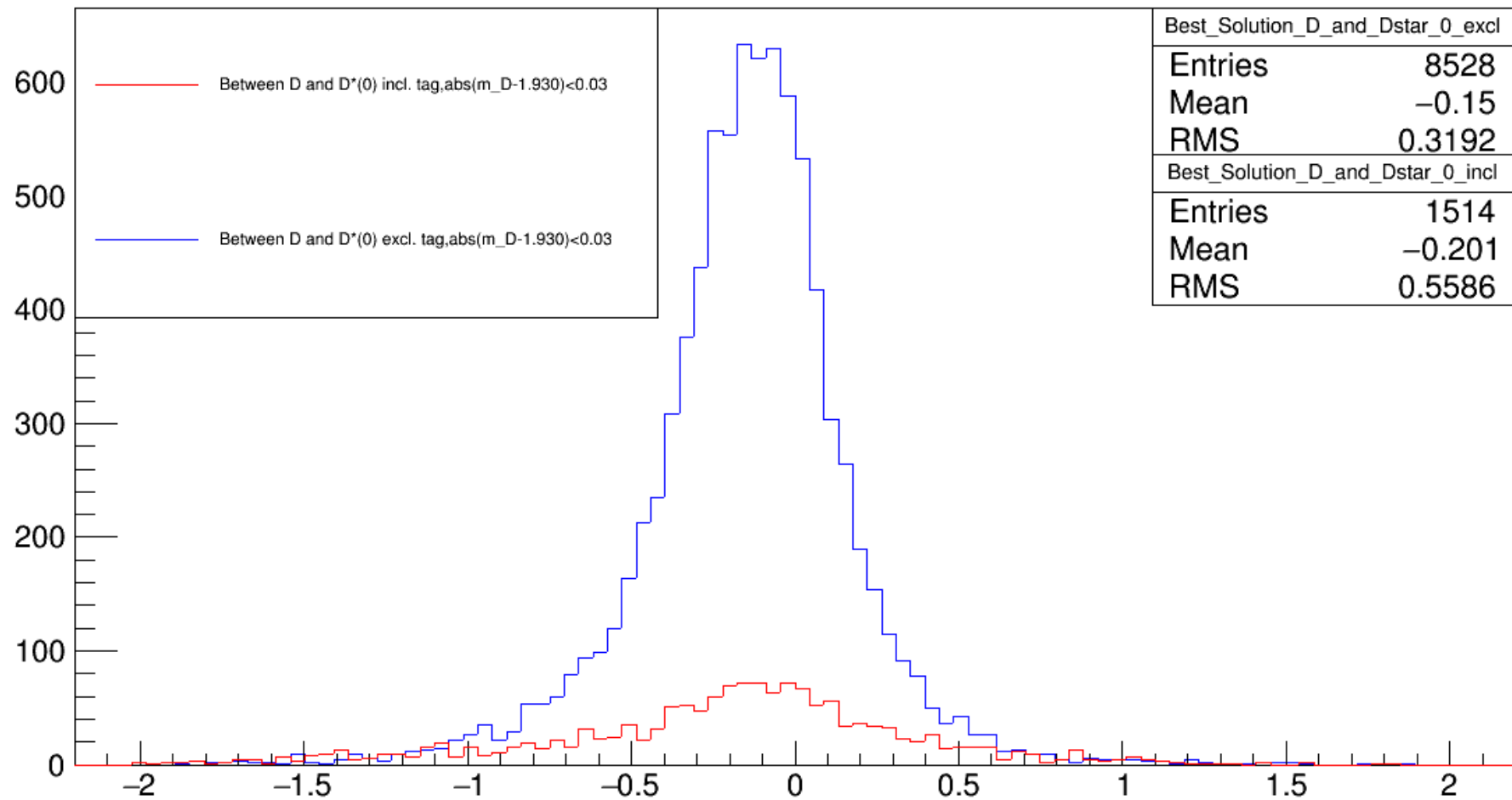
# D(0) Best sum of cosine angles for excl and incl tag with Yincl\_rank\_all==1



# D\*(0) Best sum of cosine angles for excl and incl tag with Yincl\_rank\_all==1



Between D and D\*(0) Best sum of cosine angles for excl and incl tag with Yincl\_rank\_all==1



# To do

```
# Decay B-tag
Decay B-tag
1.0 D0      mu-  anti-nu_mu  PHOTOS  HQET2 1.15;
Enddecay
CDecay B+tag

# Decay D0
Decay D0
1.0 K-  pi+  pi0          PHOTOS PHSP;
Enddecay
CDecay anti-D0
```

- Same problem appears again

Thanks

# Tag side decay chain

```
# Decay B-tag
Decay B-tag
0.5 D*0      e-   anti-nu_e  PHOTOS  HQET2  1.3  1.18  0.71;
0.5 D*0      mu-  anti-nu_mu  PHOTOS  HQET2  1.3  1.18  0.71;
Enddecay
CDecay B+tag

# Decay D*0
Decay D*0
0.5 D0       gamma                VSP_PWAVE; #[Reconstructed PDG2011]
0.5 D0       pi0                 VSS; #[Reconstructed PDG2011]
Enddecay
CDecay anti-D*0

#Decay D0
Decay D0
1.0 K-       pi+                 PHSP;
Enddecay
CDecay anti-D0
```

m\_D

