

# Cosmic ray 8/11

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# Report

- PMT Gain matching
- 10000, 37000 event test data
- 기본적인 Root 명령어 공부

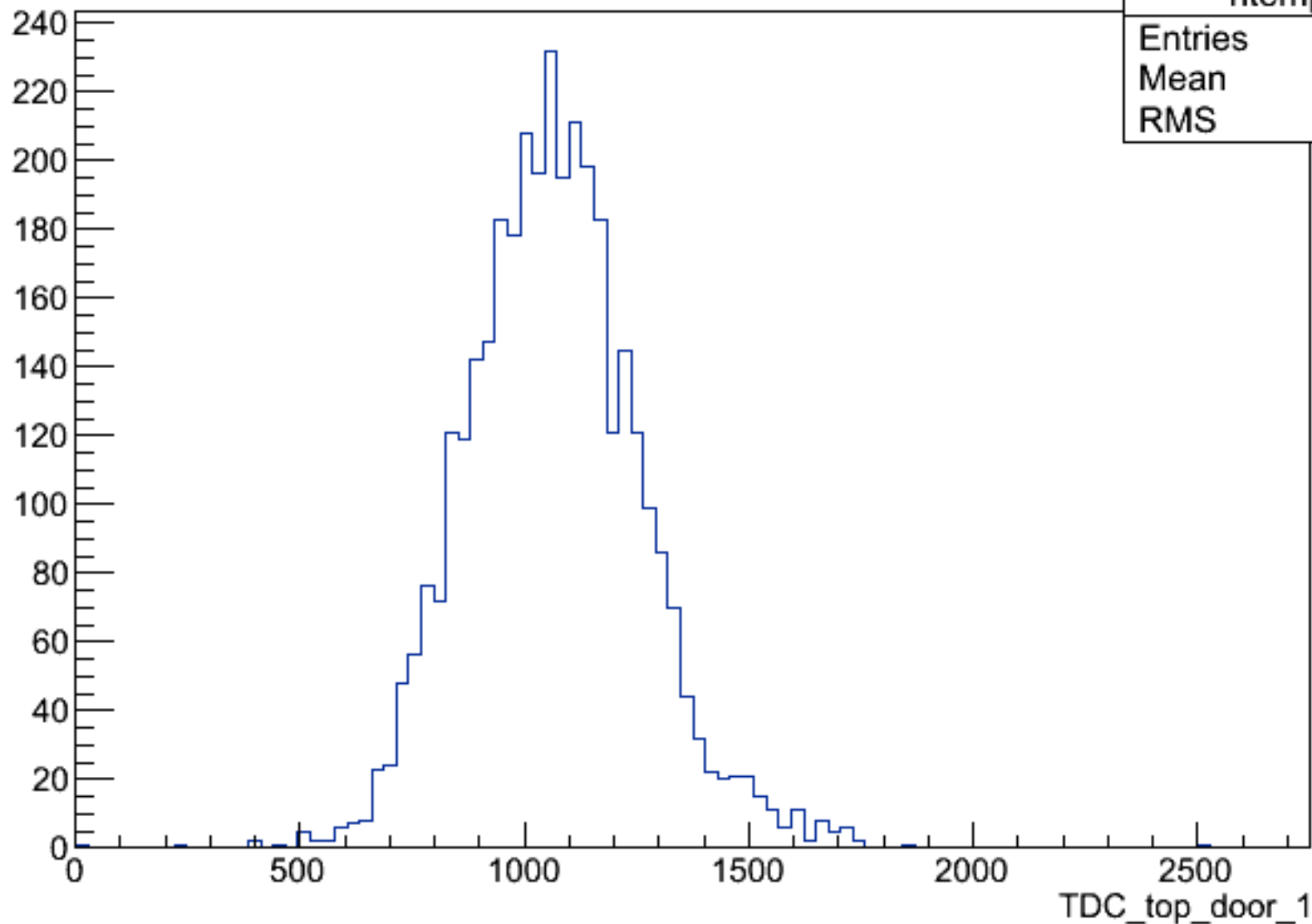
# PMT Gain matching

- 저번 주에 이어서 모든 PMT의 최종적인 Gain matching을 완료
- 데이터 분석 후 gain에 문제가 있는 PMT는 다른 PMT로 교체할 예정

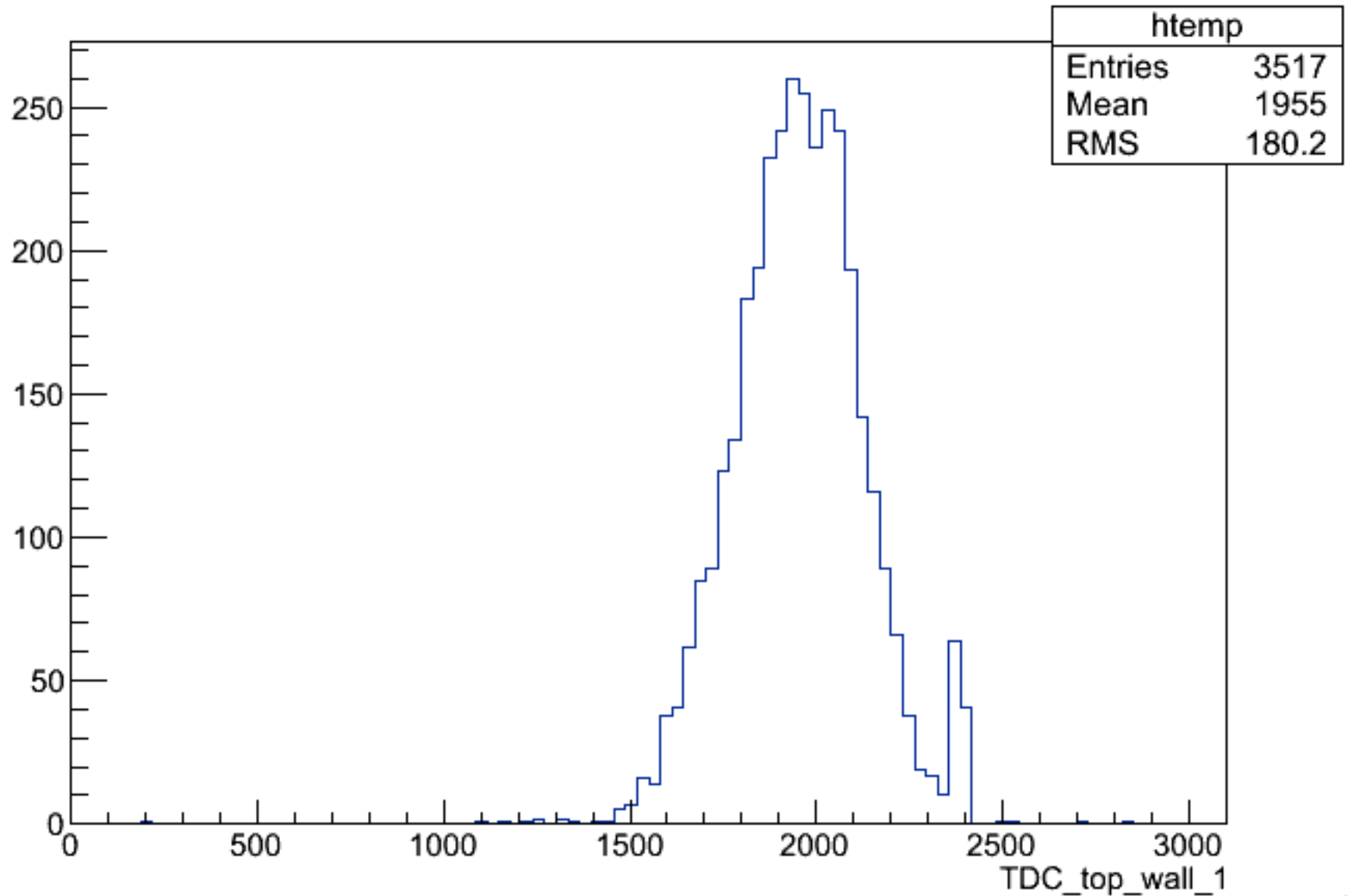
# DATA - TDC

TDC\_top\_door\_1 {TDC\_top\_door\_1<4000&&TDC\_top\_door\_1>0&&TDC\_top\_wall\_1<4000&&TDC\_top\_wall\_1>0}

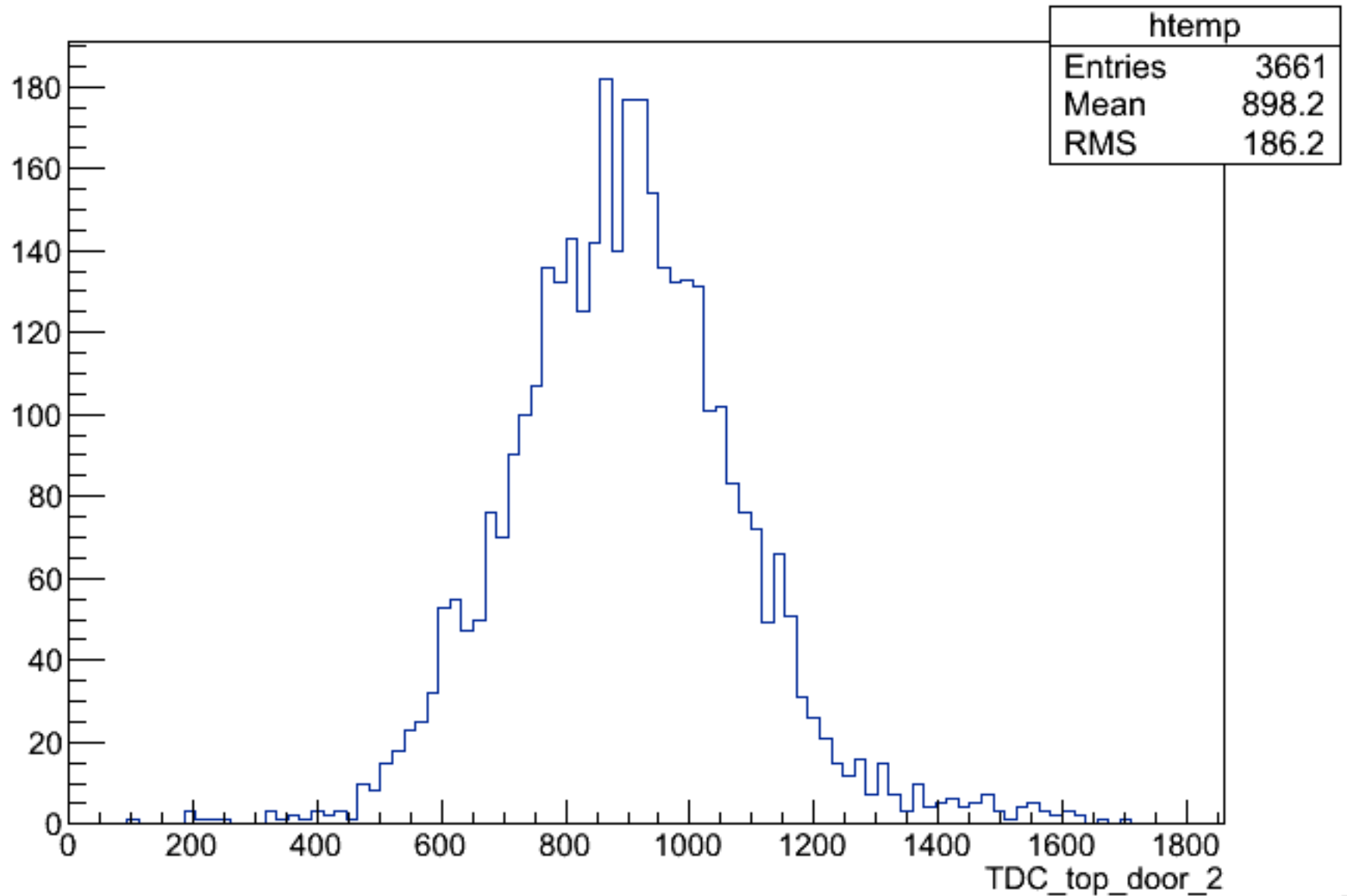
htemp	
Entries	3517
Mean	1065
RMS	193.3



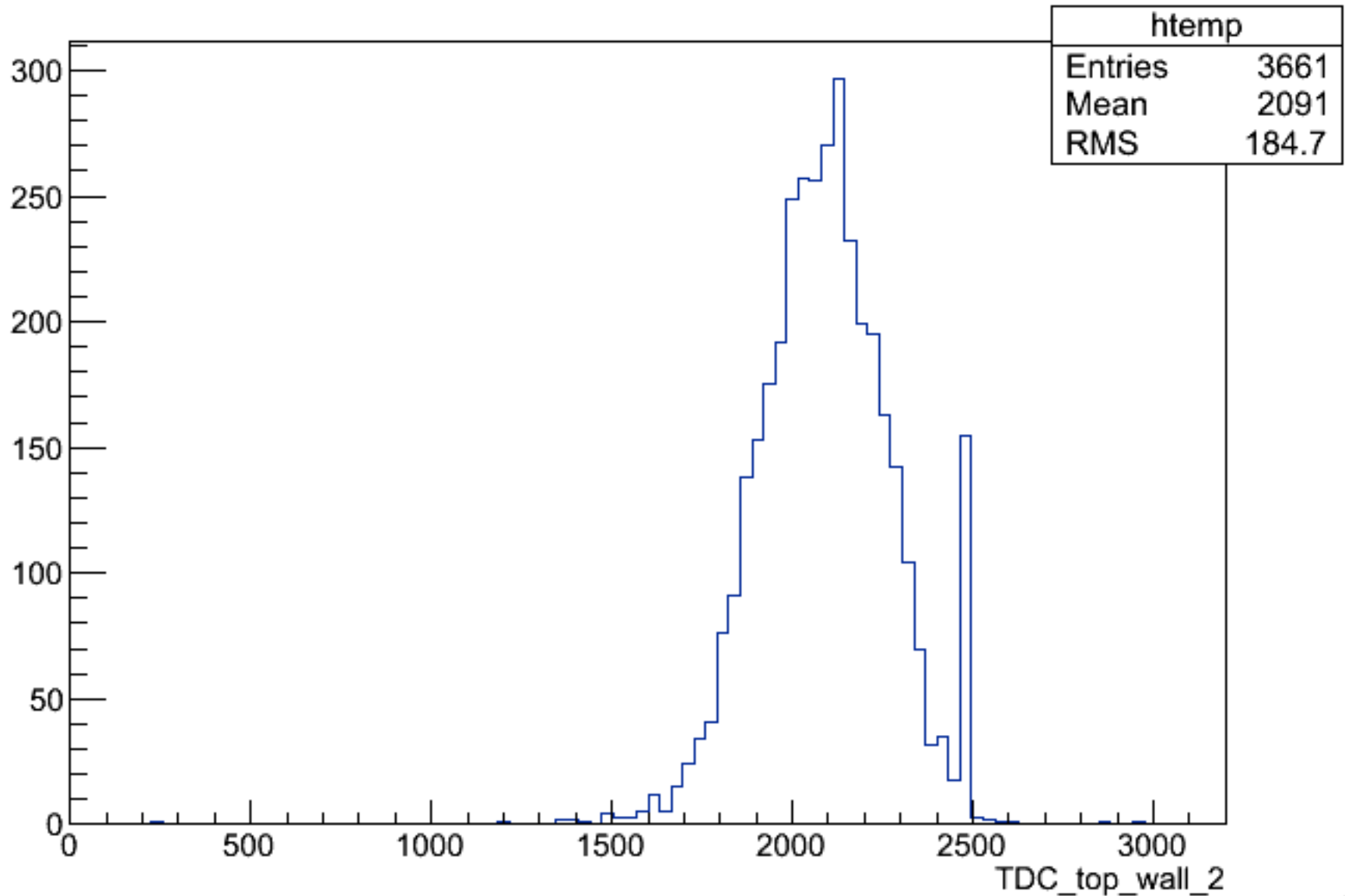
TDC\_top\_wall\_1 {TDC\_top\_door\_1<4000&&TDC\_top\_door\_1>0&&TDC\_top\_wall\_1<4000&&TDC\_top\_wall\_1>0}



TDC\_top\_door\_2 {TDC\_top\_door\_2<4000&&TDC\_top\_door\_2>0&&TDC\_top\_wall\_2<4000&&TDC\_top\_wall\_2>0}

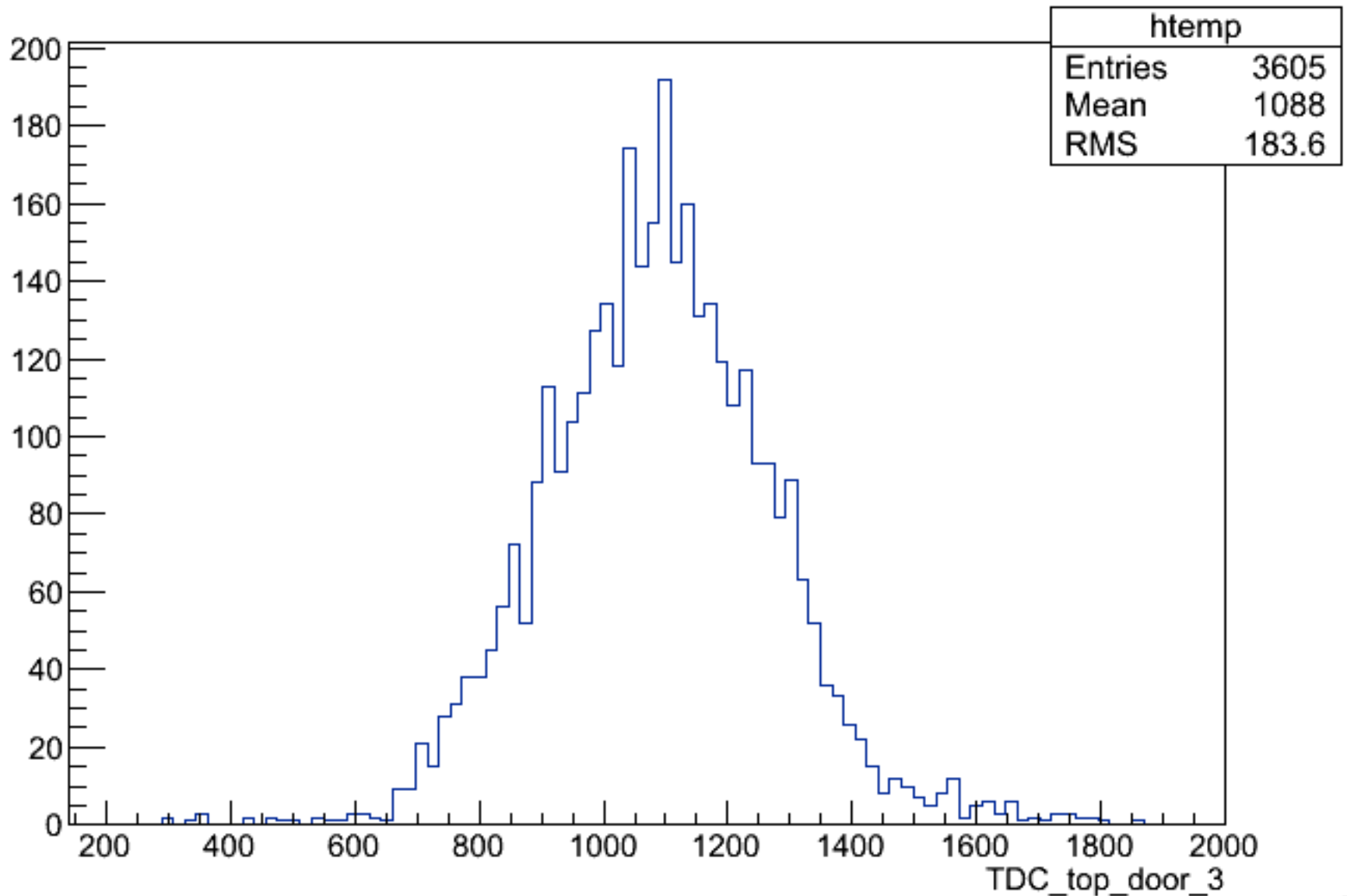


TDC\_top\_wall\_2 {TDC\_top\_door\_2<4000&&TDC\_top\_door\_2>0&&TDC\_top\_wall\_2<4000&&TDC\_top\_wall\_2>0}

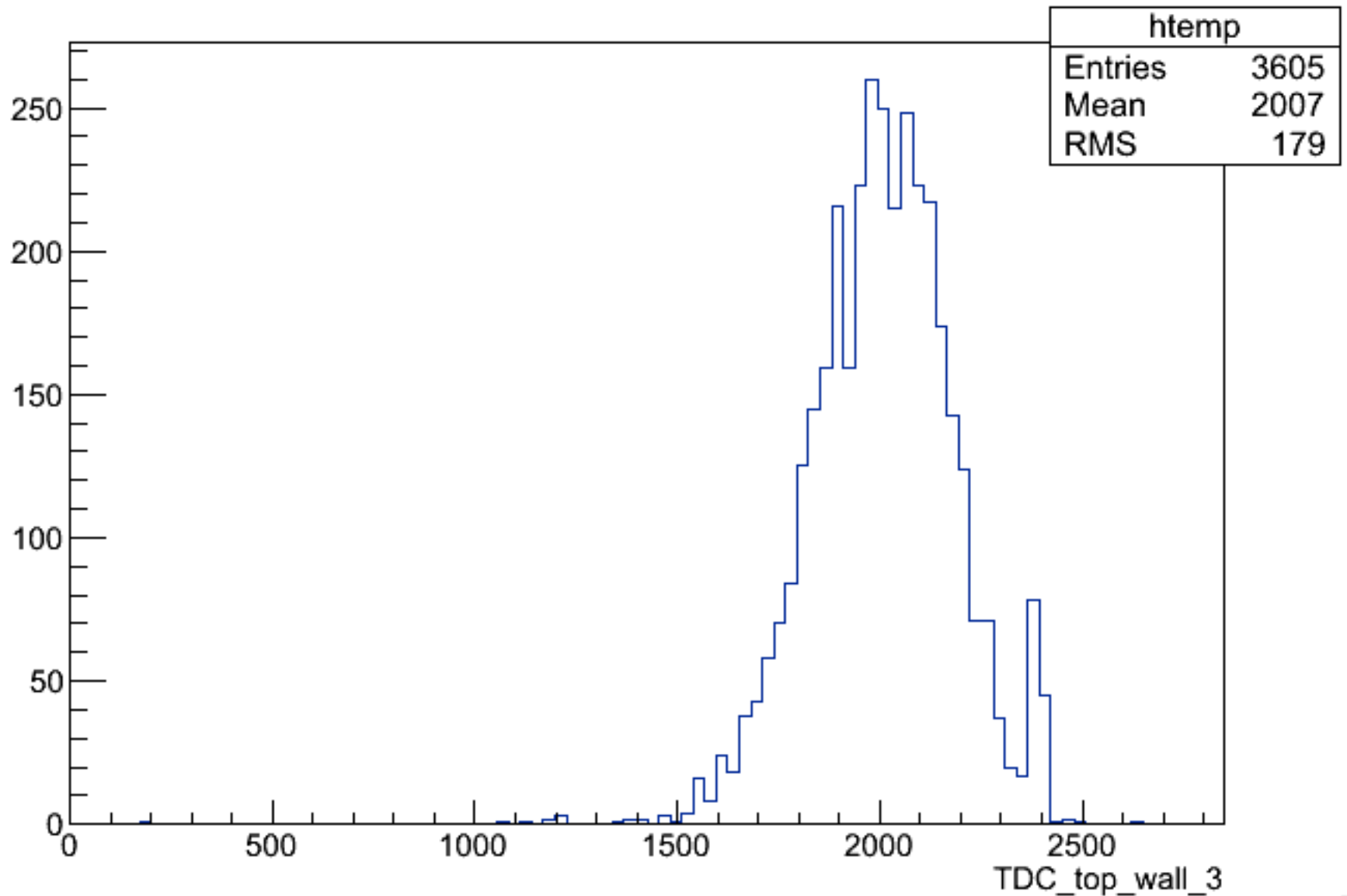




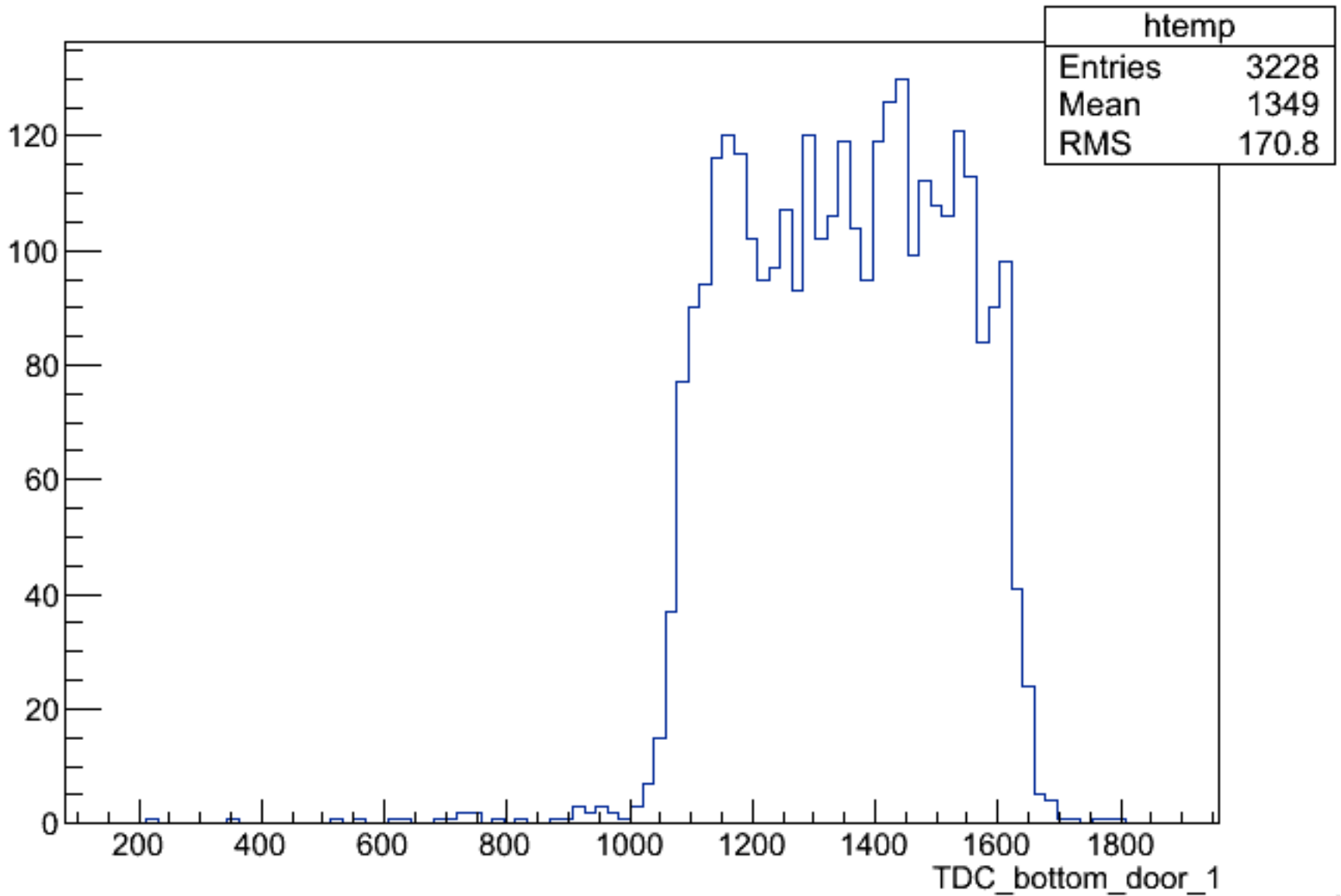
TDC\_top\_door\_3 (TDC\_top\_door\_3<4000&TDC\_top\_door\_3>0&TDC\_top\_wal\_3<4000&TDC\_top\_wal\_3>0&TDC\_top\_wal\_3<4000)



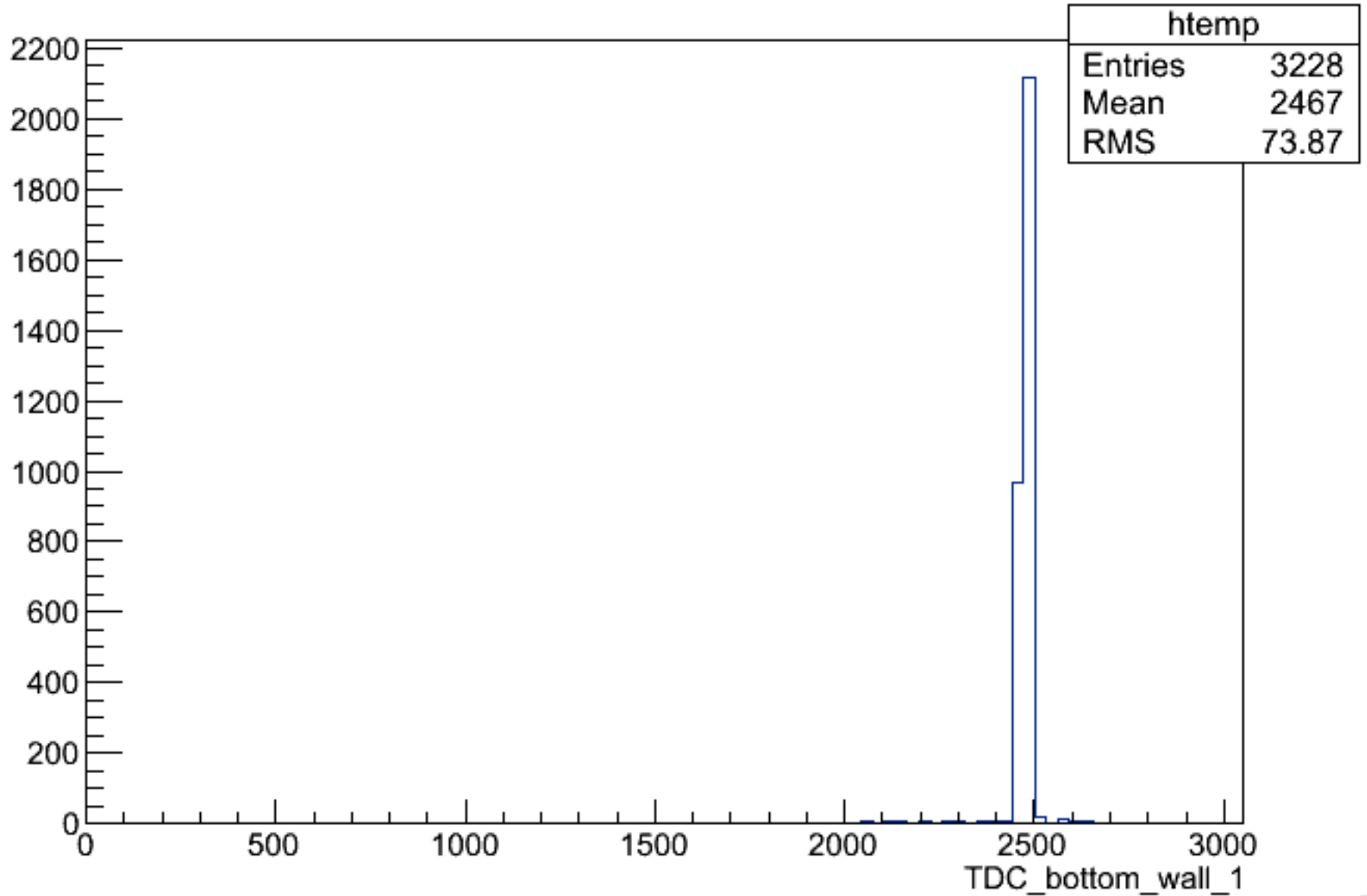
TDC\_top\_wall\_3 (TDC\_top\_door\_3<4000&&TDC\_top\_door\_3>0&&TDC\_top\_wall\_3<4000&&TDC\_top\_wall\_3>0&&TDC\_top\_wall\_3<4000)



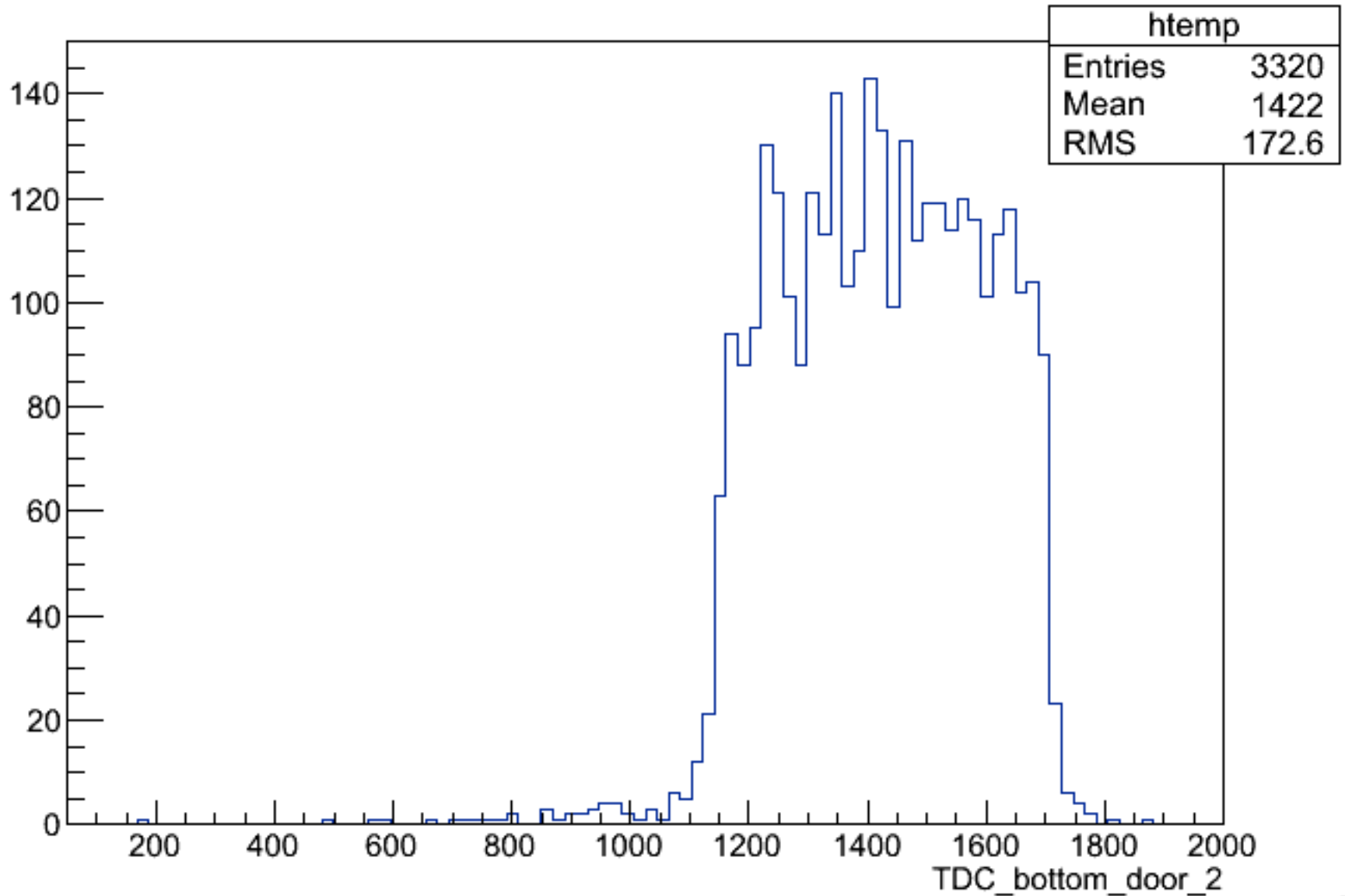
TDC\_bottom\_door\_1 {TDC\_bottom\_door\_1<4000&&TDC\_bottom\_door\_1>0&&TDC\_bottom\_wall\_1<4000&&TDC\_bottom\_wall\_1>0}



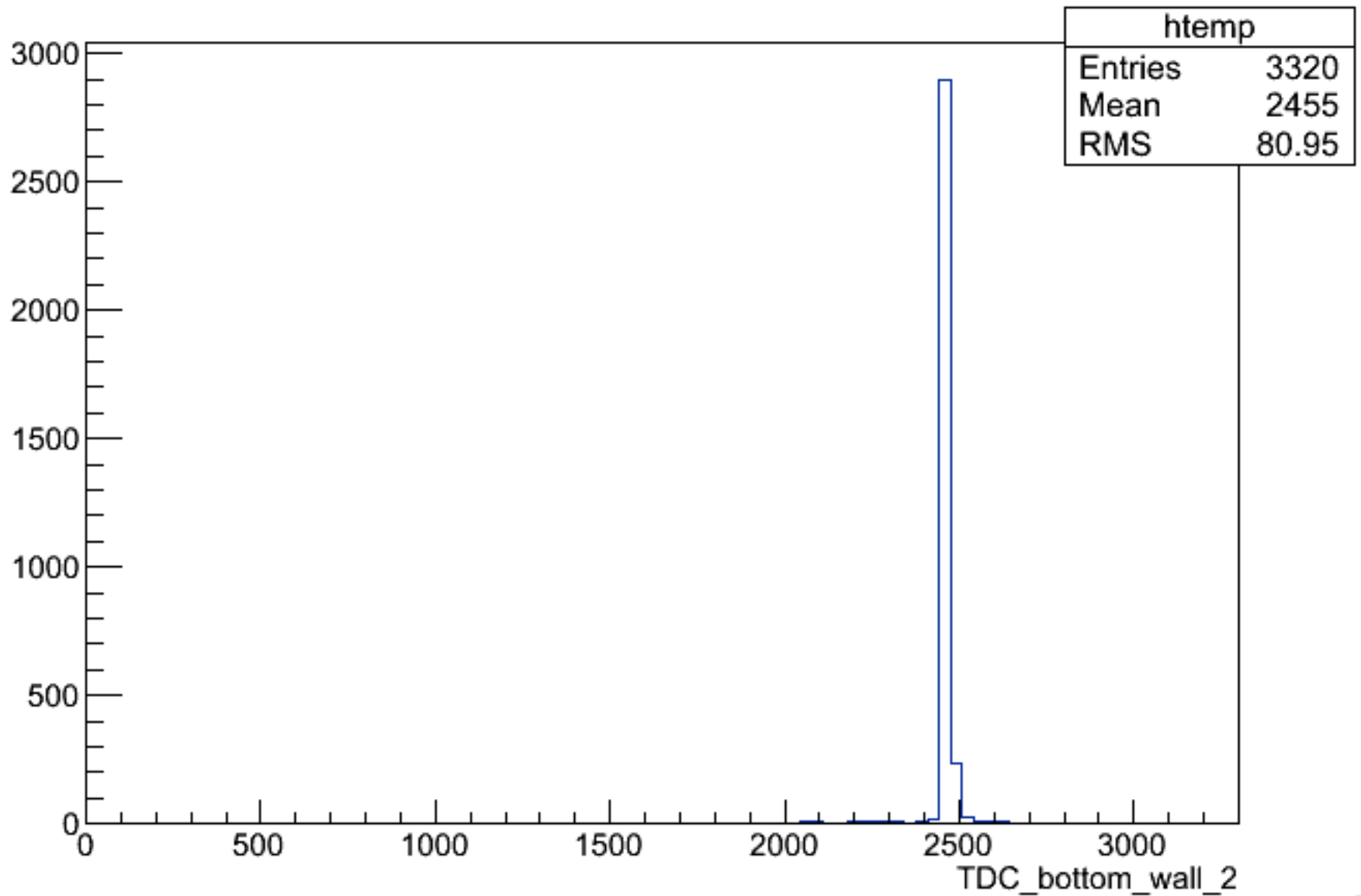
TDC\_bottom\_wall\_1 (TDC\_bottom\_door\_1<4000&&TDC\_bottom\_door\_1>0&&TDC\_bottom\_wall\_1<4000&&TDC\_bottom\_wall\_1>0)



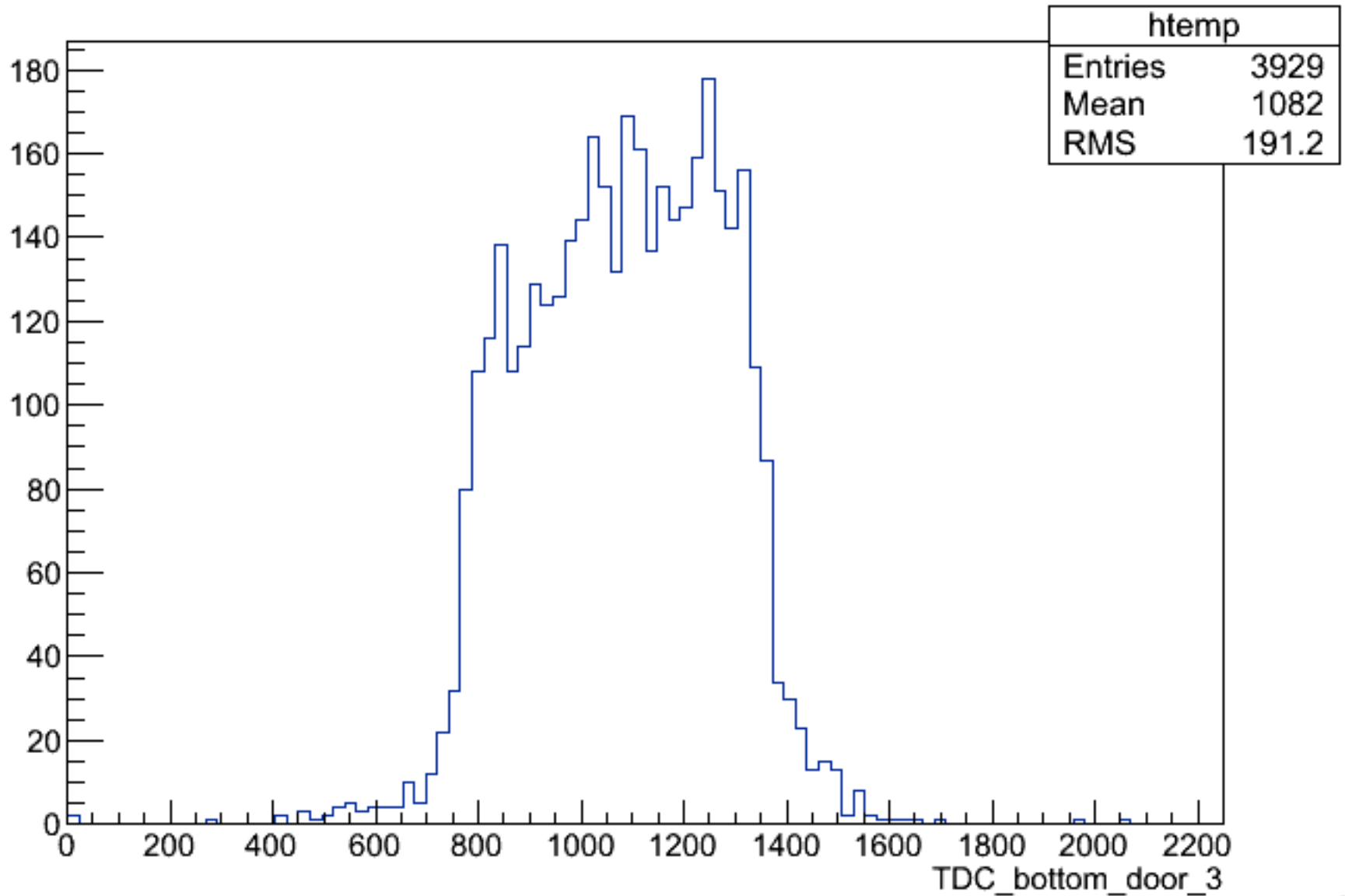
TDC\_bottom\_door\_2 (TDC\_bottom\_door\_2<4000&&TDC\_bottom\_door\_2>0&&TDC\_bottom\_wall\_2<4000&&TDC\_bottom\_wall\_2>0)



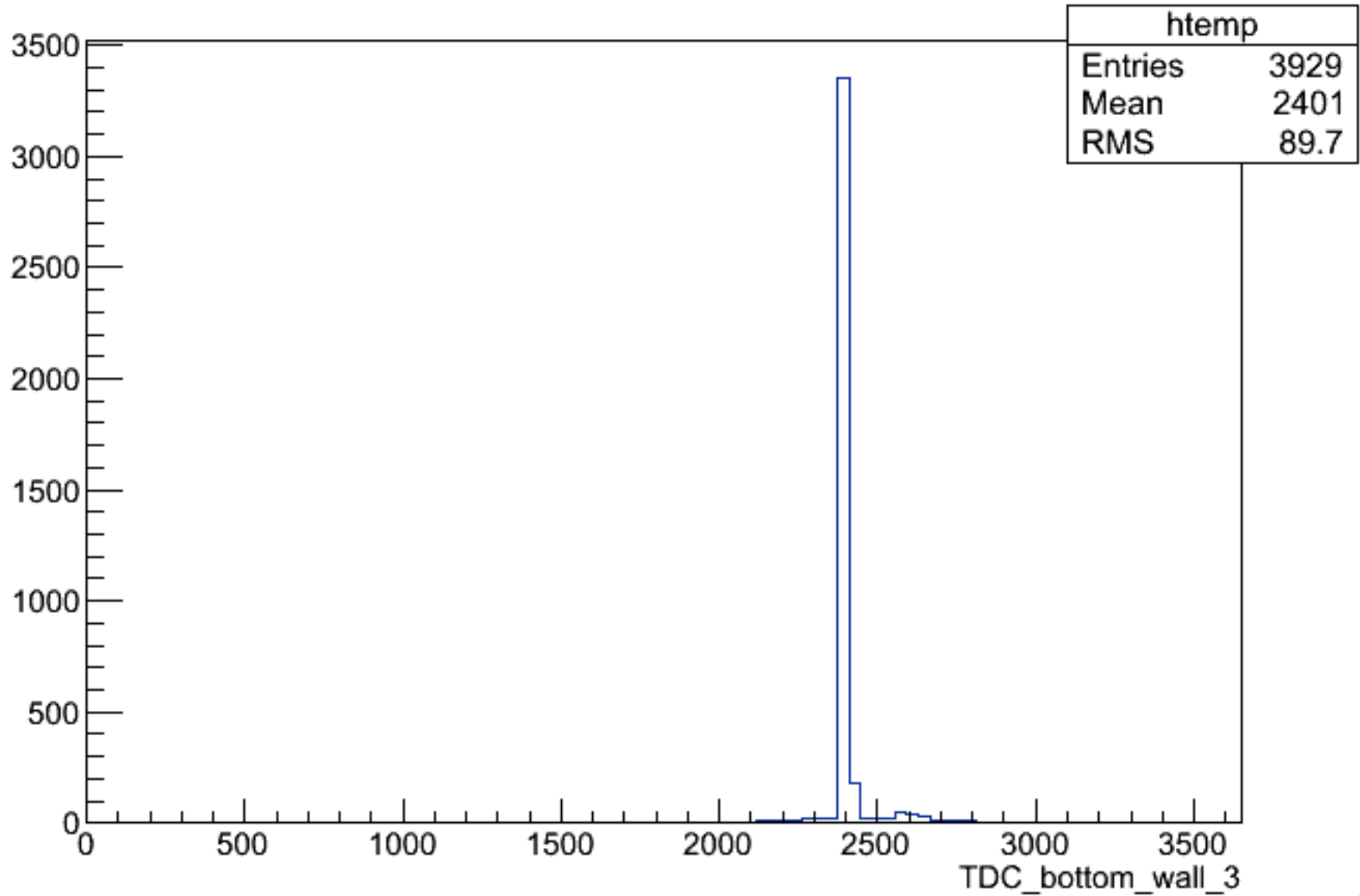
TDC\_bottom\_wall\_2 (TDC\_bottom\_door\_2<4000&&TDC\_bottom\_door\_2>0&&TDC\_bottom\_wall\_2<4000&&TDC\_bottom\_wall\_2>0)



TDC\_bottom\_door\_3 (TDC\_bottom\_door\_3<4000&&TDC\_bottom\_door\_3>0&&TDC\_bottom\_wall\_3<4000&&TDC\_bottom\_wall\_3>0)



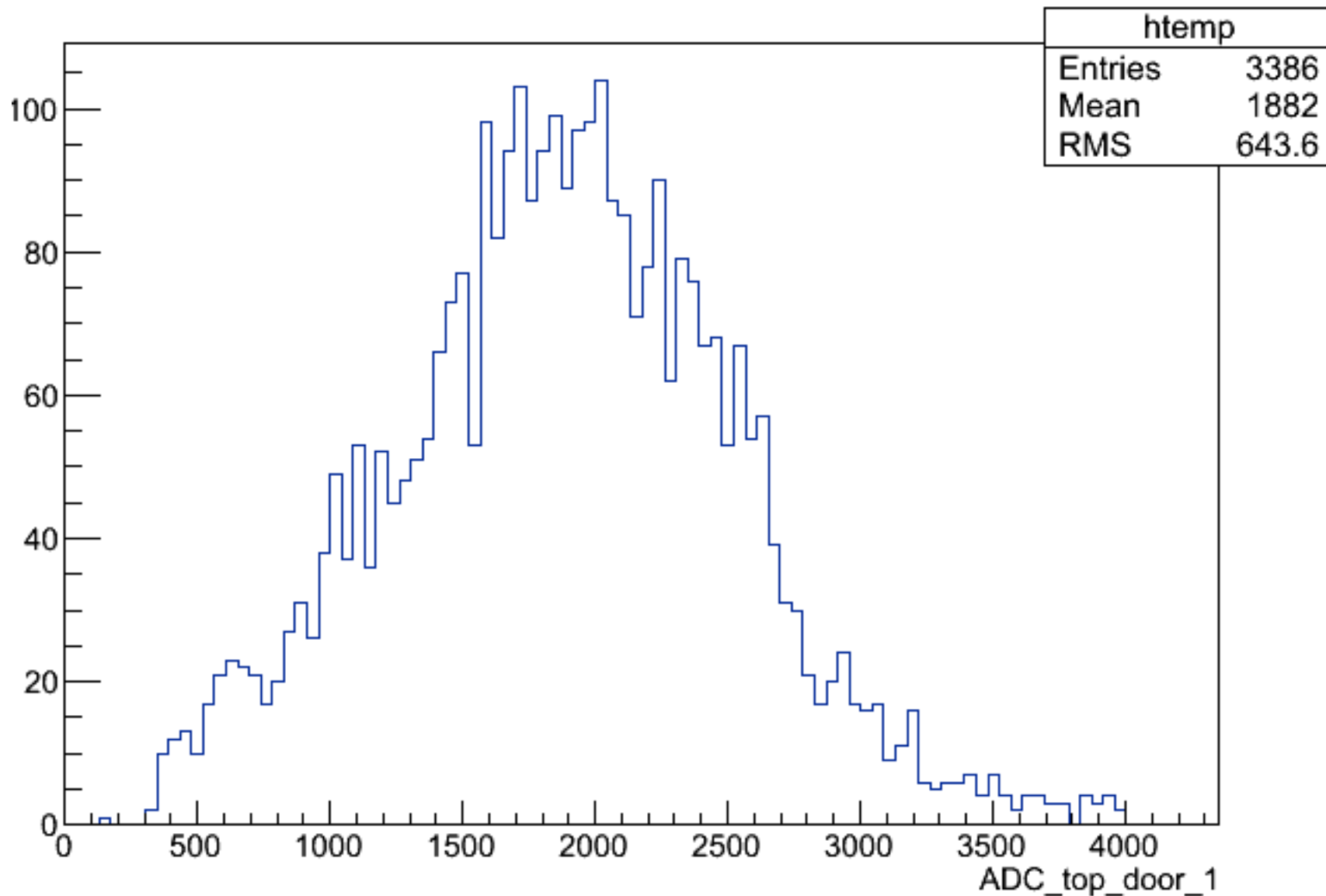
TDC\_bottom\_wall\_3 (TDC\_bottom\_door\_3<4000&&TDC\_bottom\_door\_3>0&&TDC\_bottom\_wall\_3<4000&&TDC\_bottom\_wall\_3>0)



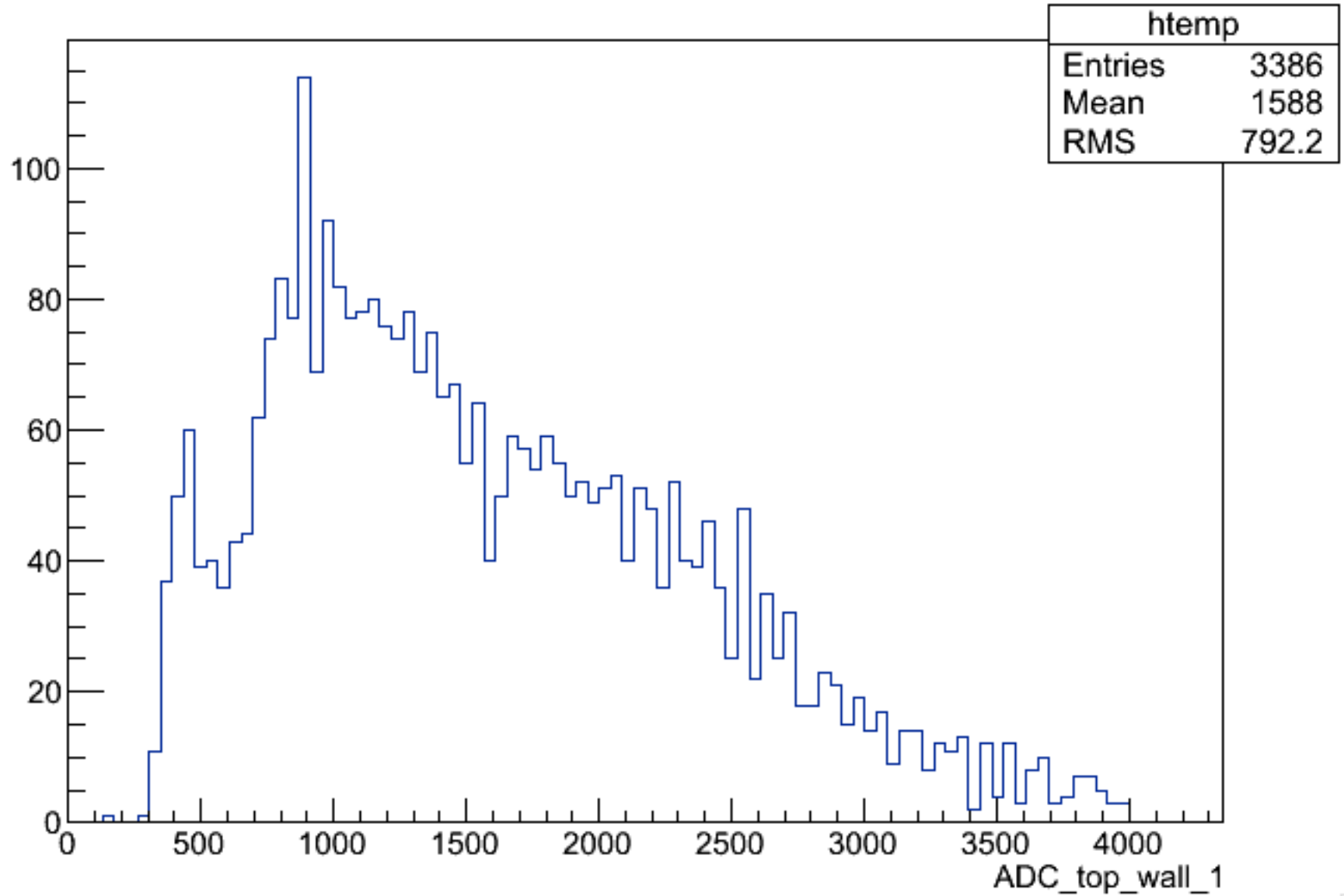


# DATA - ADC

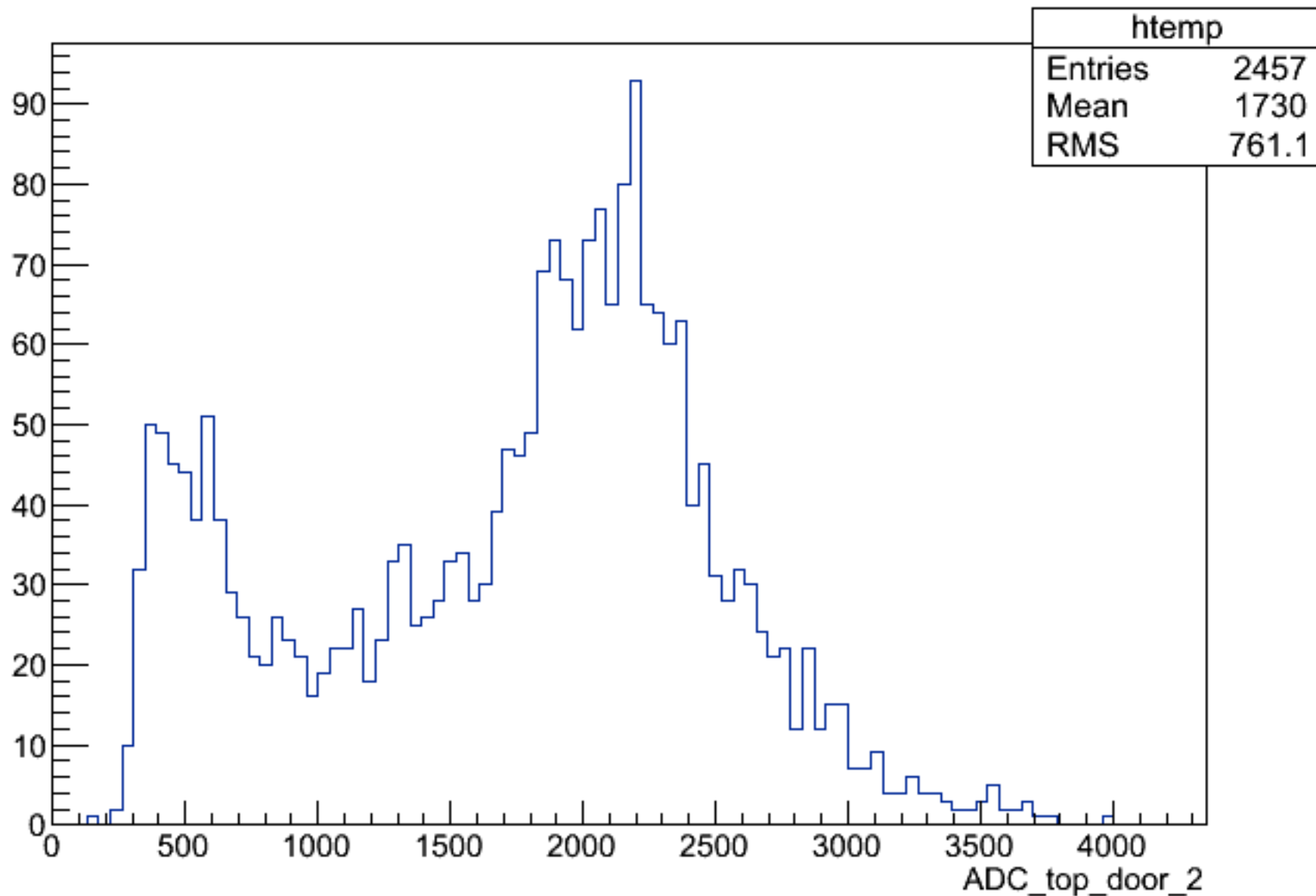
ADC\_top\_door\_1 (TDC\_top\_door\_1<4000&&TDC\_top\_door\_1>0&&TDC\_top\_wall\_1<4000&&TDC\_top\_wall\_1>0&&ADC\_top\_door\_1<4000&&ADC\_top\_door\_1>0&&ADC\_top\_error\_1<0&&ADC\_top\_wall\_1<0&&ADC\_top\_wall\_1>4000)

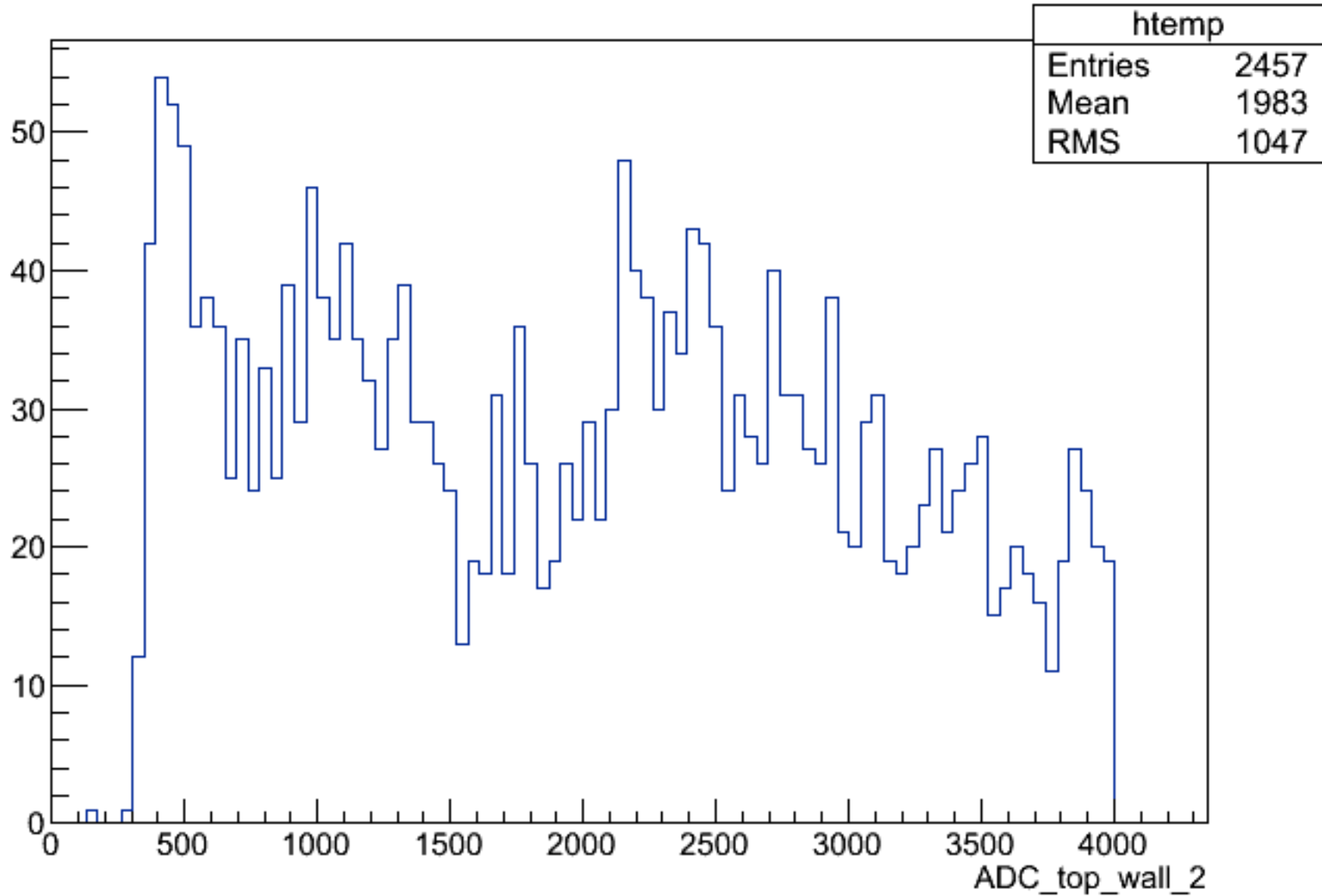


ADC\_top\_wall\_1 (TDC\_top\_door\_1=4000&TDC\_top\_door\_1=58&TDC\_top\_wall\_1=4893&TDC\_top\_wall\_1=88&ADC\_top\_door\_1=4000&ADC\_top\_door\_1=0&ADC\_top\_wall\_1=88&ADC\_top\_wall\_1=400)



ADC\_top\_door\_2 (TDC\_top\_door\_2+1000&&TDC\_top\_door\_2+0&&TDC\_top\_wall\_1+400&&TDC\_top\_wall\_2+0&&ADC\_top\_door\_2+1000&&ADC\_top\_door\_1+0&&ADC\_top\_wall\_2+0&&ADC\_top\_wall\_3+400)





ADC\_top\_door\_3 (TDC\_top\_door\_3+1090&&TDC\_top\_door\_3+0&&TDC\_top\_wall\_3+400&&TDC\_top\_wall\_3+0&&ADC\_top\_door\_3+1090&&ADC\_top\_door\_3+0&&ADC\_top\_wall\_3+0&&ADC\_top\_wall\_3+400)

