Measurement of CP Violation in $B^\pm \to \pi^\pm\pi^+\pi^-$ Decay Channal at Large Hadron Collider

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Abstract: A set of selected data samples which were collected by LHCb[1] in 2011 are studied. Contained $B^\pm \to \pi^\pm\pi^+\pi^-$ decays in magnet "up" and "down" polarity are constructed.Global CP asymmetry in this channal is measured to be $A_{CP} = 0.135 \pm 0.023 \pm 0.010$, in which the first and second uncertainties are statistical and systematical respectively.

1 Introduction

Standard Model[2] of particle physics, which developed in early 1970s, has been successfully explaining almost all experiment results and making precise preditions including

2 Theory

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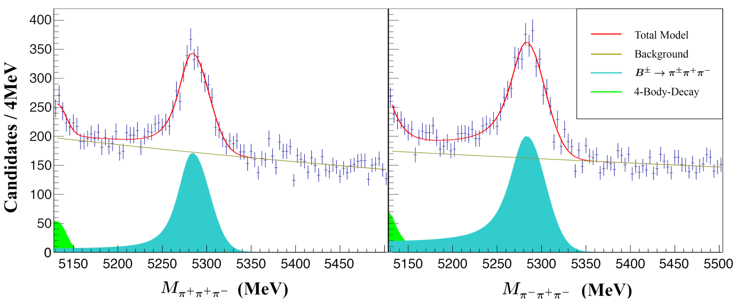

Figure 1: this is a figure demo

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3 Conclusions

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4 Results

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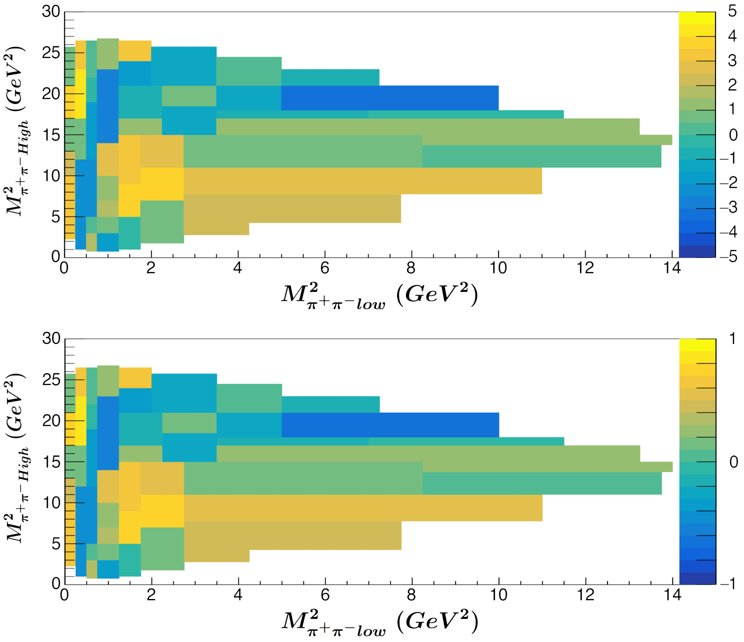

Figure 2: this is a figure demo

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Start	Character Block Name
3400	graphs Extension A
4E00	CJK Unified Ideographs

Table 1: asdsada

Bibliography

References

[1] A. A. Alves Jr. et al. The lhcb detector at the lhc. *JINST 3 (2008) S08005.*

[2] Tom W.B. Kibble. The standard model of particle physics. *arXiv:1412.4094.*