# Optimization update for $B o K\mu e$



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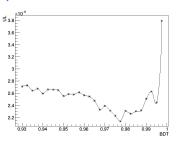
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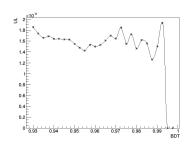
#### Introduction

- ⇒ Since we added 2011 MC, we need top update everything:
- Retrain BDT.
- Re optimize everything.
- Calculate the UL.

 $^{2}/_{5}$ 

### BDT optimization





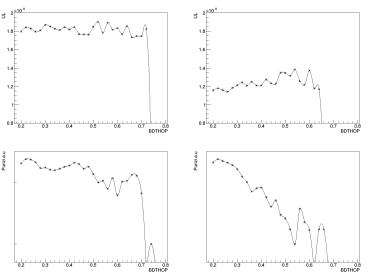
⇒ Again the result seems stable and the cut:

(1)

seems oki doki and the same as before.

 $^{3}/_{5}$ 

## BDTHOP optimization



 $\Rightarrow$  Again the result seems stable and the cut:BDT>0.5 seems ok.

#### Conclusion

- ⇒ The optimization is stable and we have the same working point.
- $\Rightarrow$  The note is updated.
- $\Rightarrow$  The switch of modes  $B \to K^+ e^+ \mu^-$  and  $B \to K^+ e^- \mu^+$  is now made consistent in the ANA note.
- ⇒ We are moving towards systematics determinations.

## Backup

