

Trigger “Rates” Data and MC for the 3S

Silke Nelson, SLAC

Trigger Meeting, Feb 5th

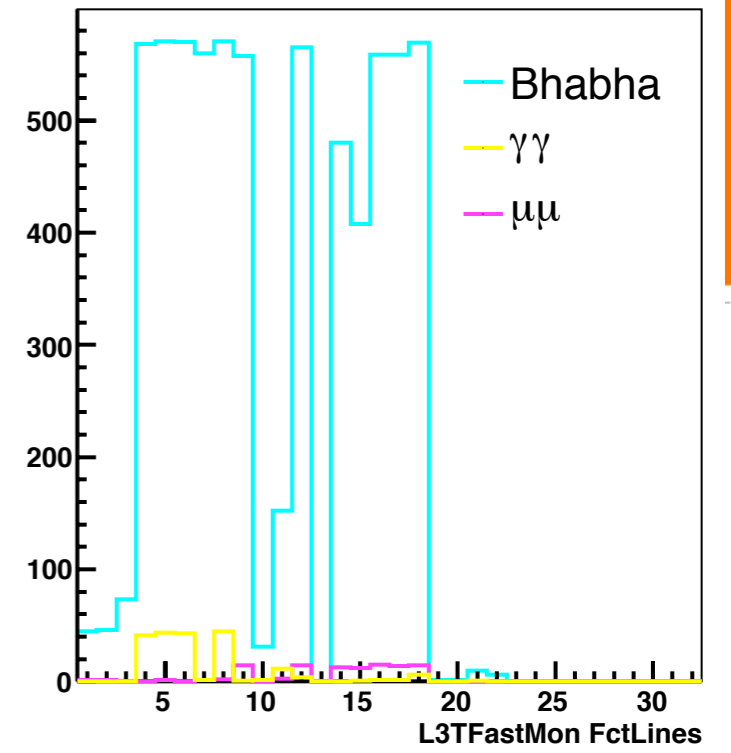
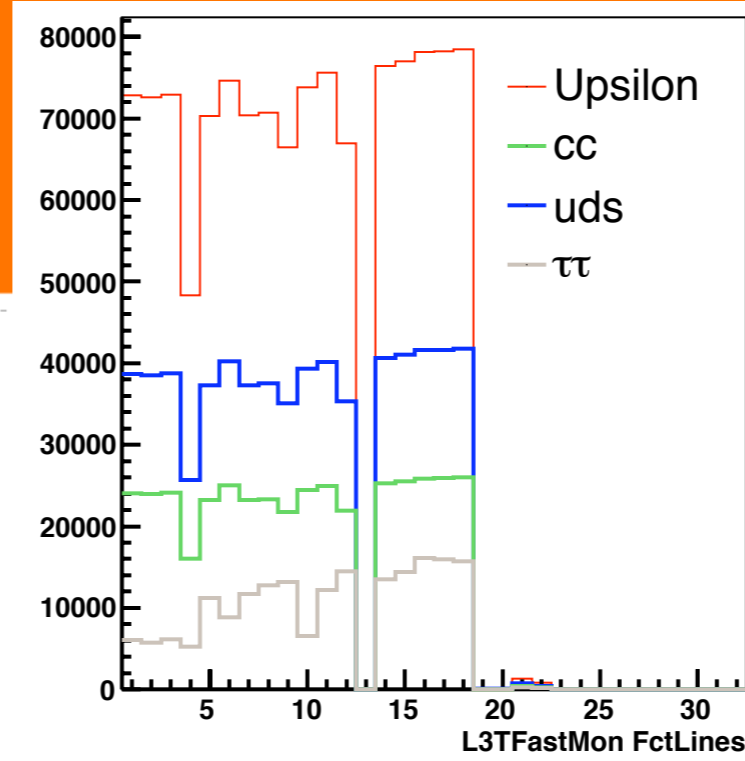


Introduction

- ❏ Aim is to compare the trigger rates in Data to MC to study contributions of (unmodeled) background channels
- ❏ Run a few small MC jobs in R24 using the Ups(3S) setup
- ❏ scale the sample according to cross-section
- ❏ compare to a data-run and normalize to its luminosity
 - ❏ ignored \sqrt{s} correction for “continuum” for now
 - ❏ use luminosity from lumi-script
 - ❏ assume 40pb Bhabha
 - ❏ scale gammagamma using its trigger and the lumi trigger with its CS in run 76767

Outline

- 🍯 made plots (for now) of the 2008b and 2008c configuration
- 🍯 look at the FctLines, OepInputLines and OepOutputLines
- 🍯 trigger lines are only numbered for now
 - 🍯 need to work on script adding more sensible names....
- 🍯 used CS:
 - 🍯 Ups(3S): 3.9, uds: 2.09, cc:1.3, tautau:0.94 (all nb)
 - 🍯 mumu: 1. (should be 1.16) , Bhabha 28, gammagamma: 2.4 (should be 1.7 according to “trigger line scaling”)

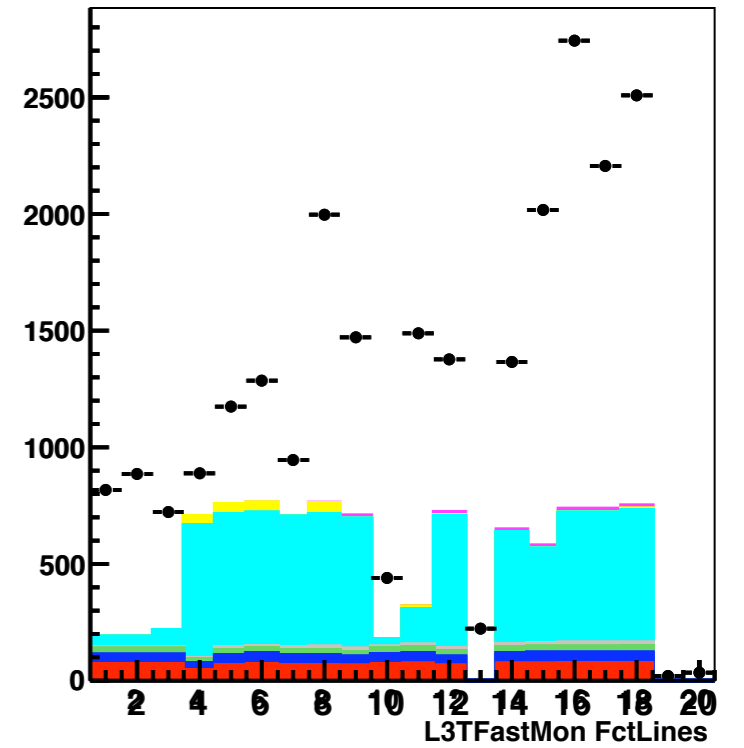
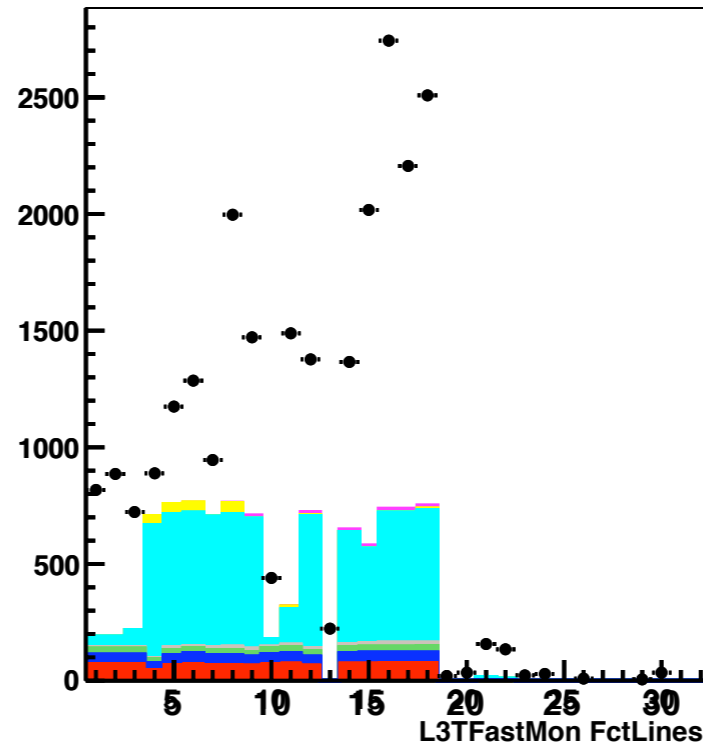


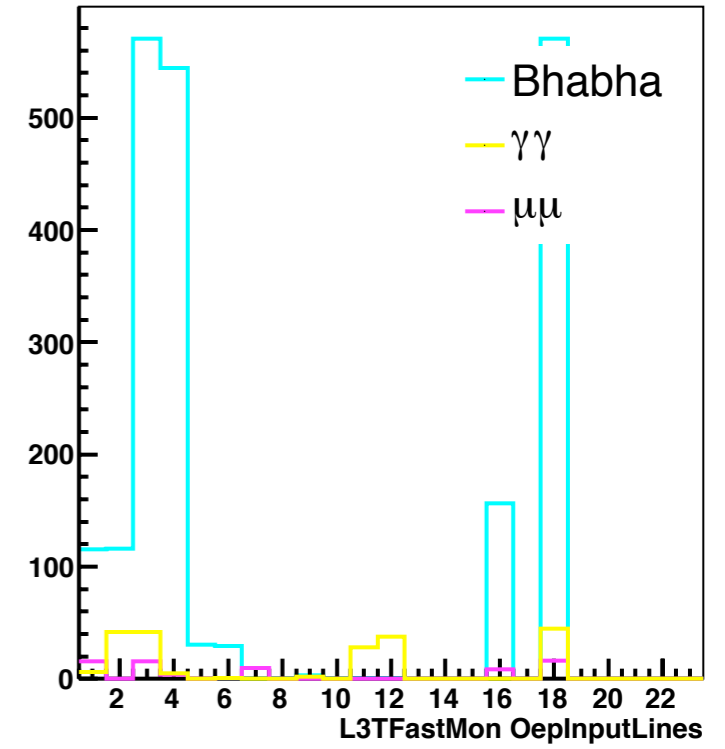
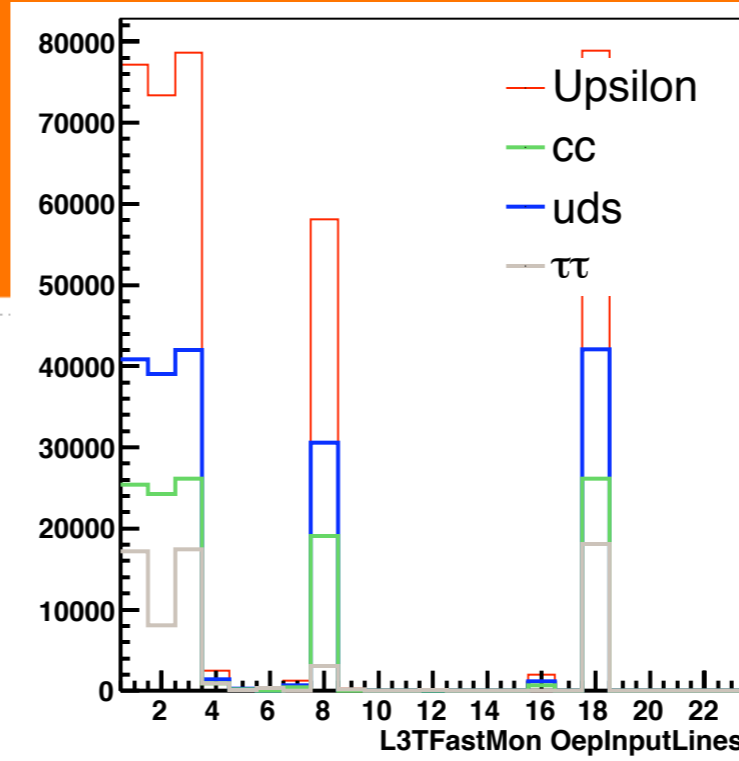
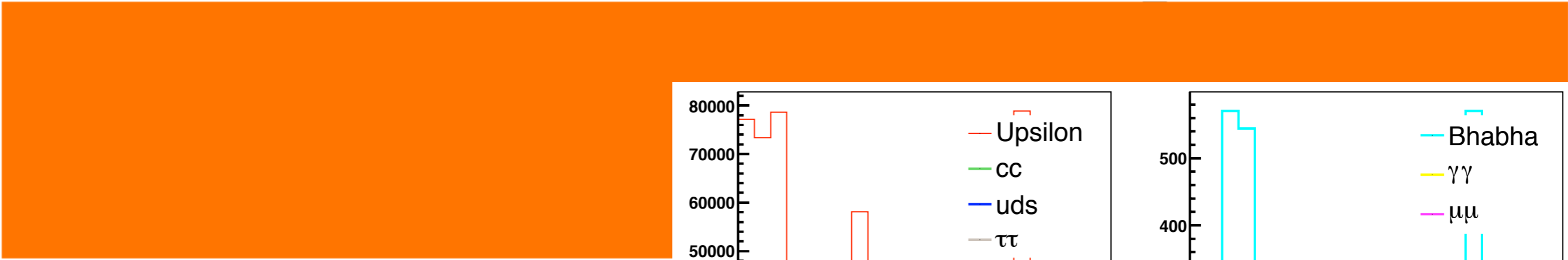
2008b

FctInputLines

Run 78141

20.376 pb⁻¹



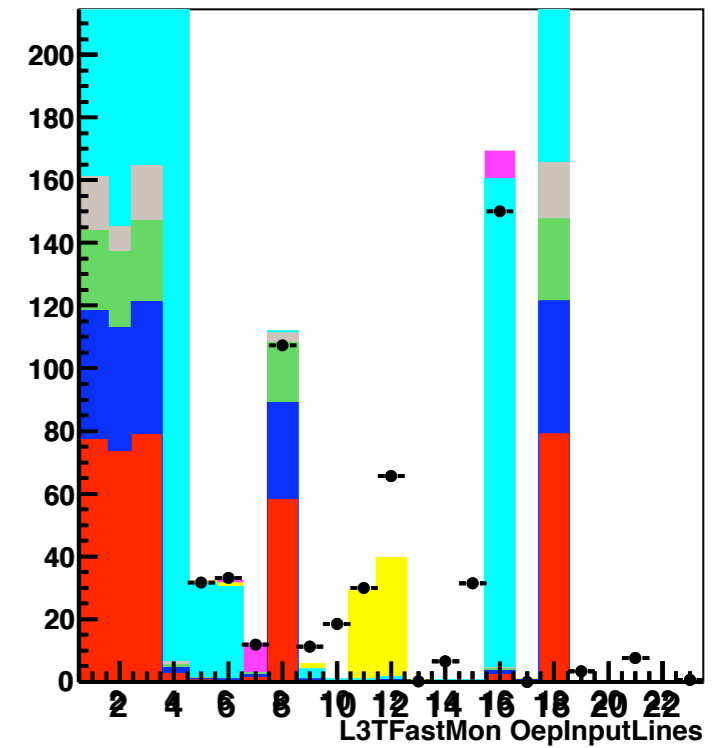
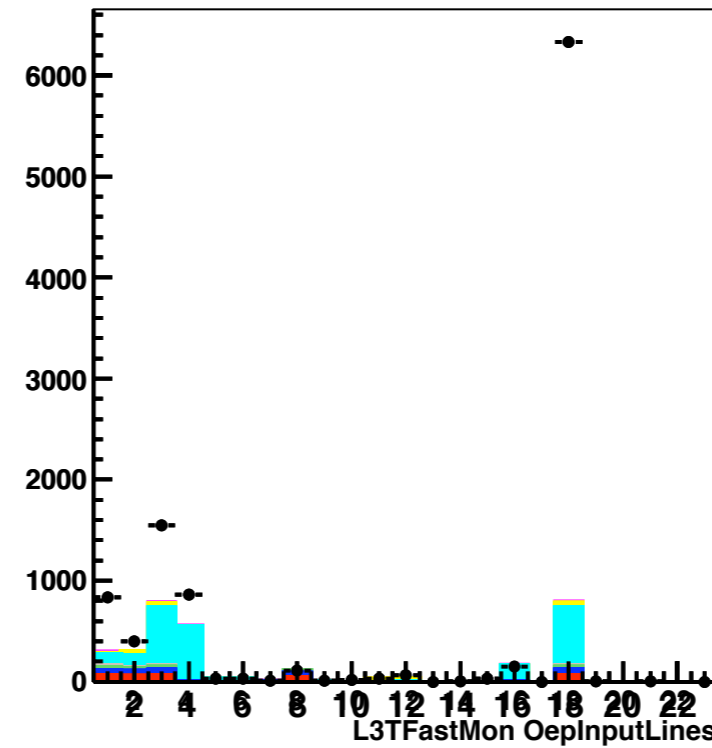


2008b

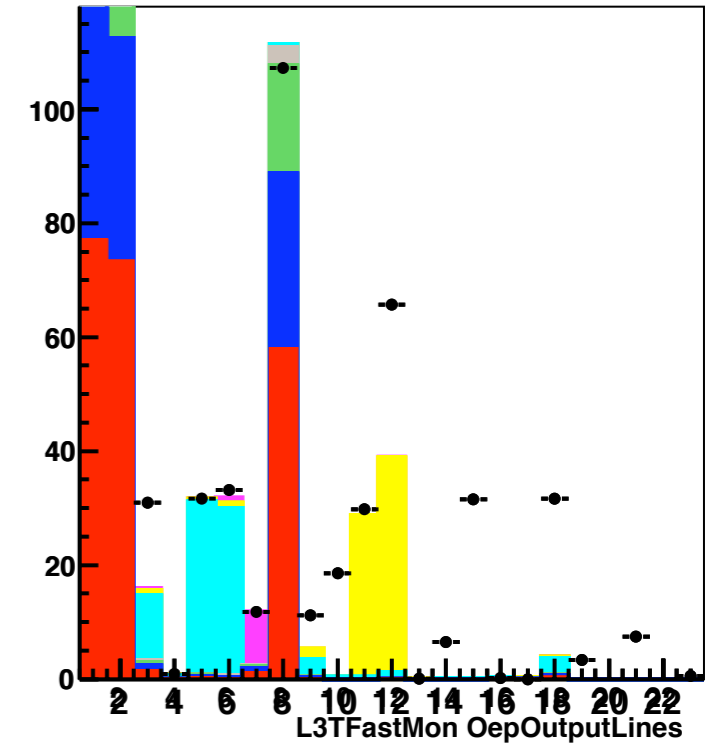
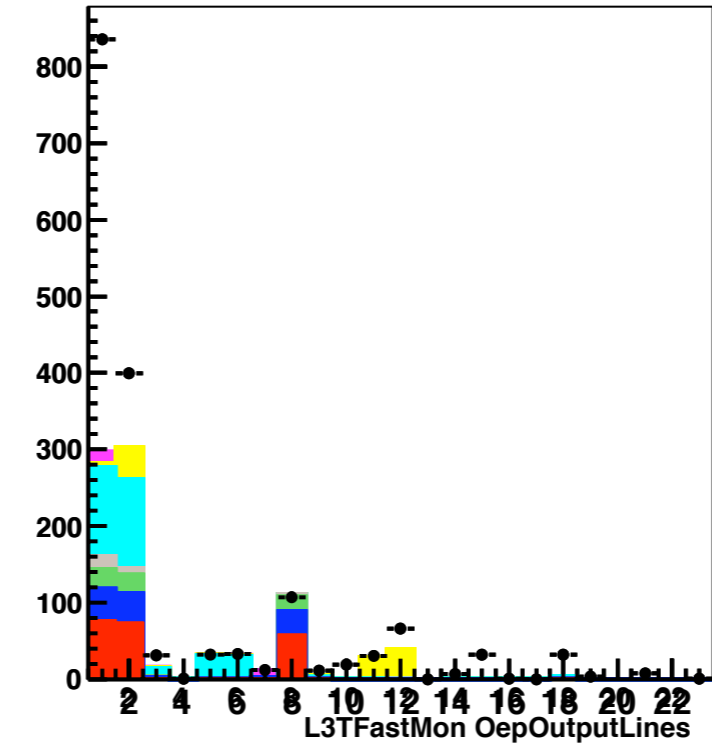
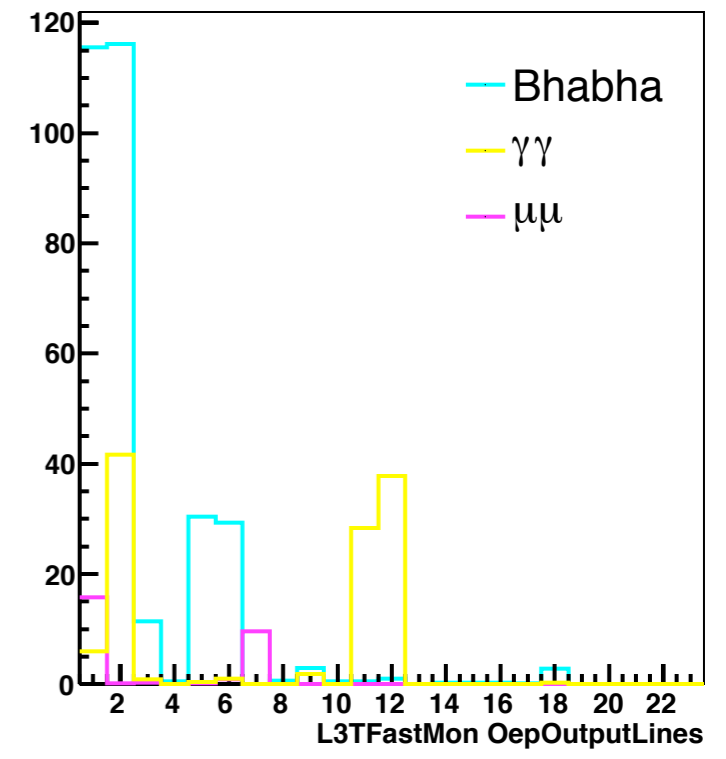
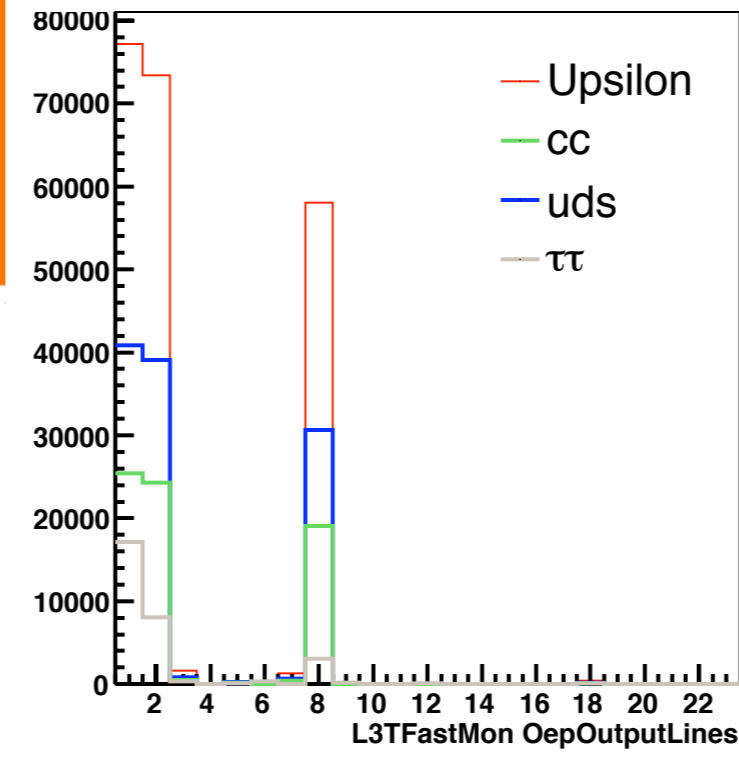
OepInputLines

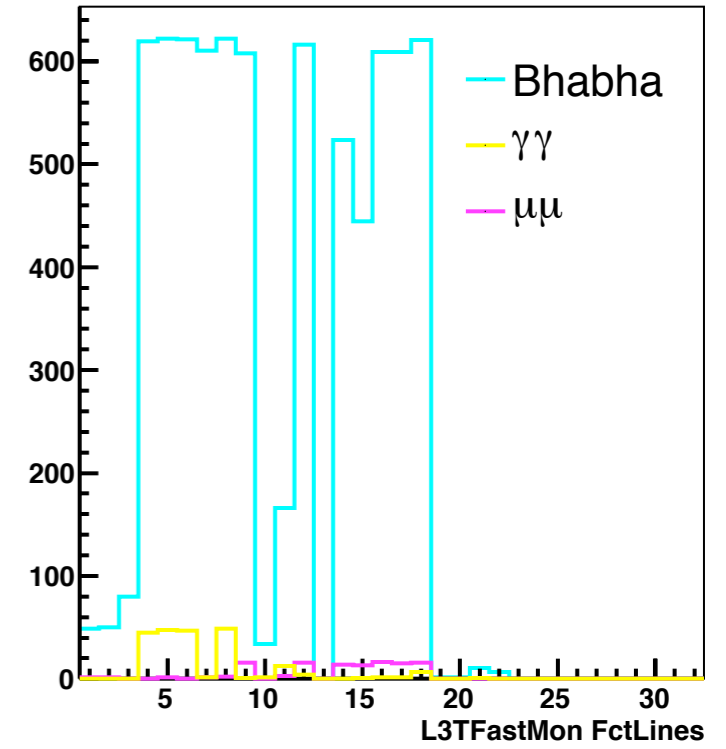
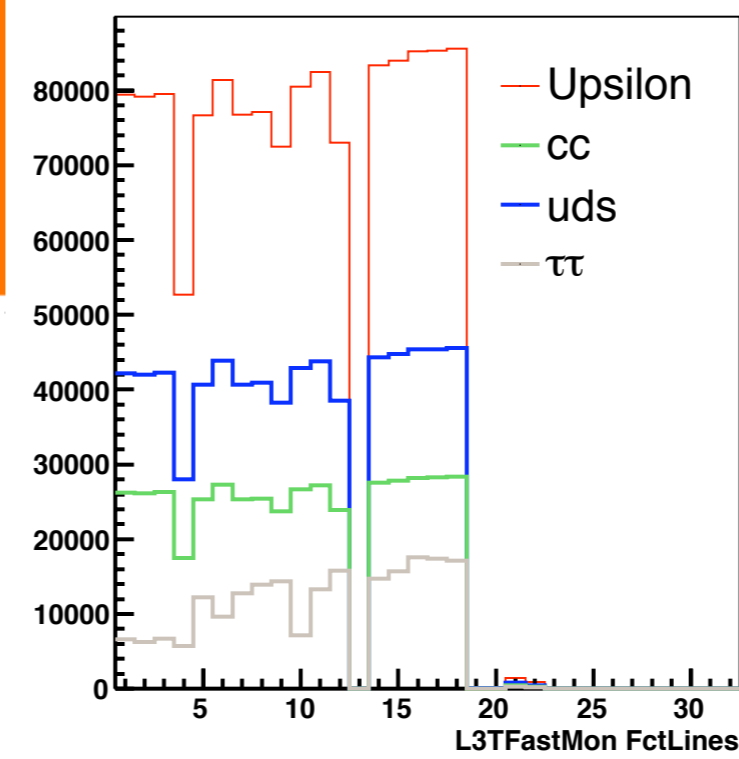
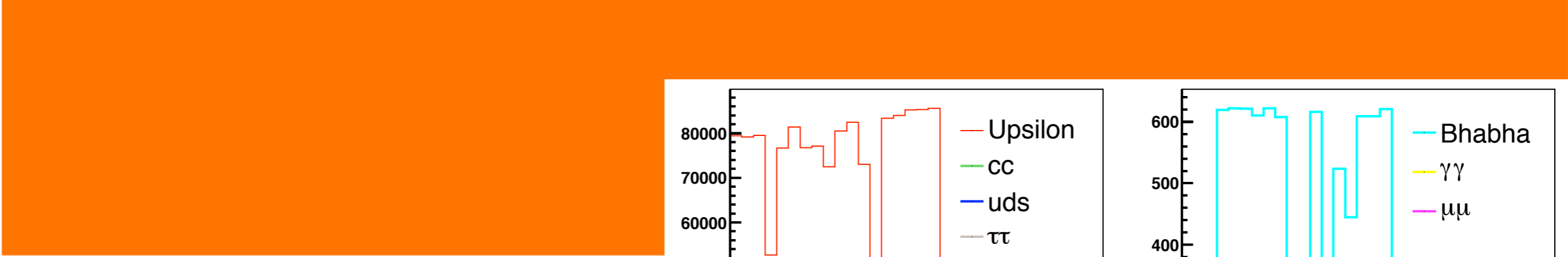
Run 78141

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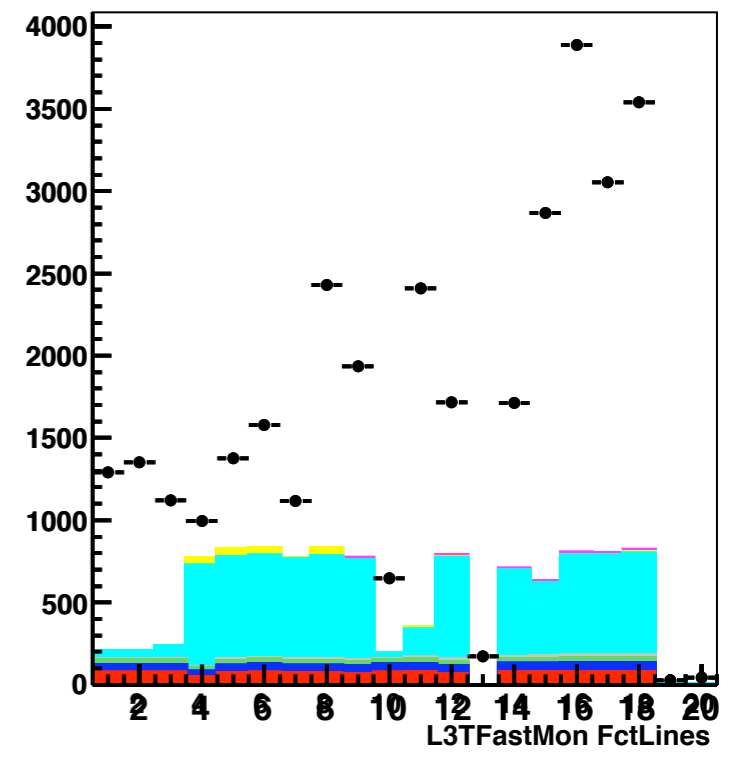
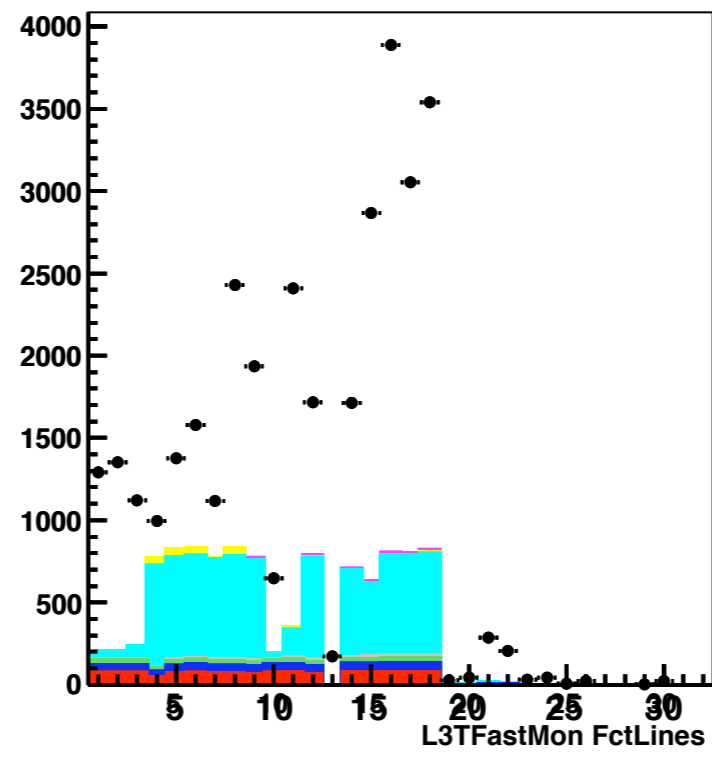


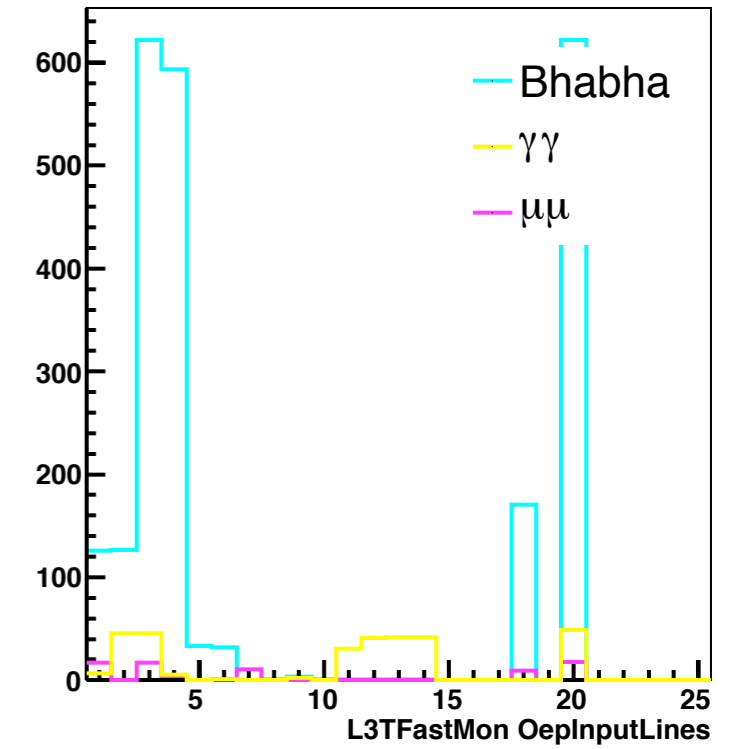
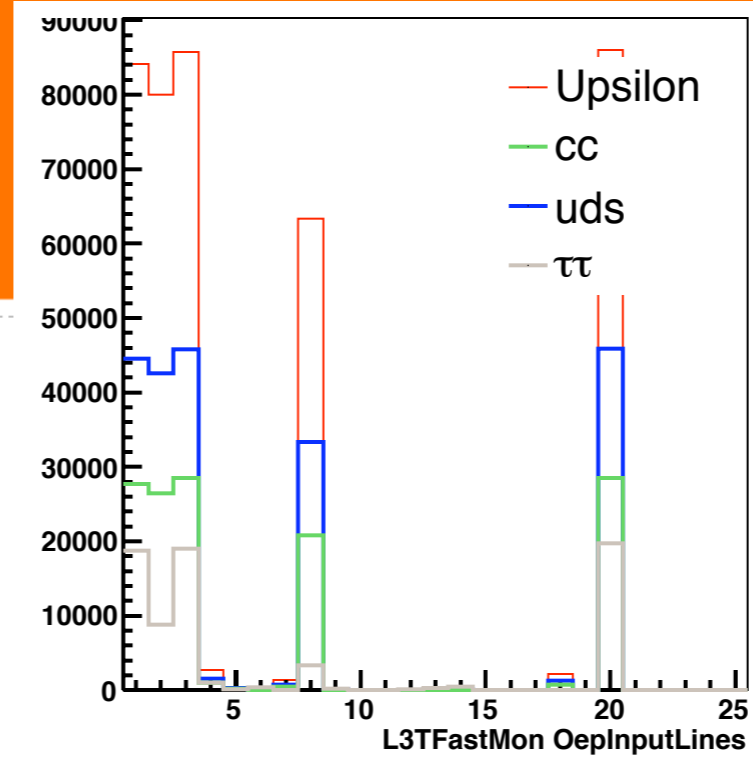
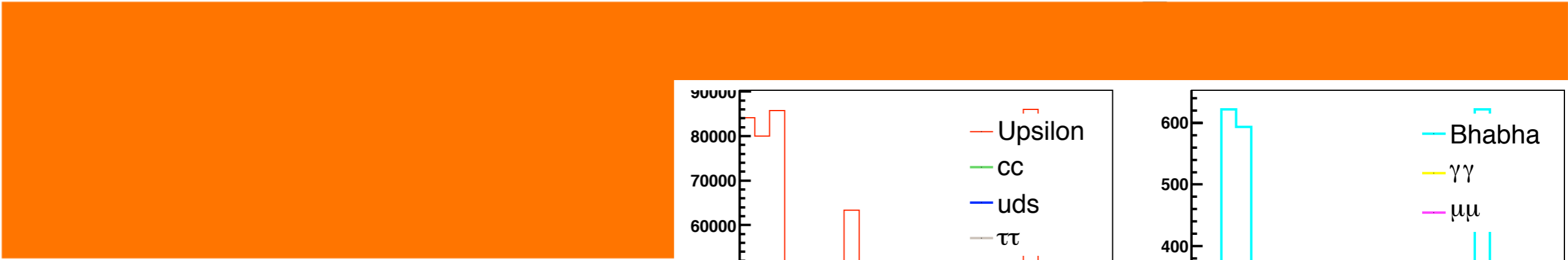
2008b
OepOutputLines
Run 78141
20.376 pb⁻¹





2008c
FctLines
Run 78499
22.218 pb⁻¹



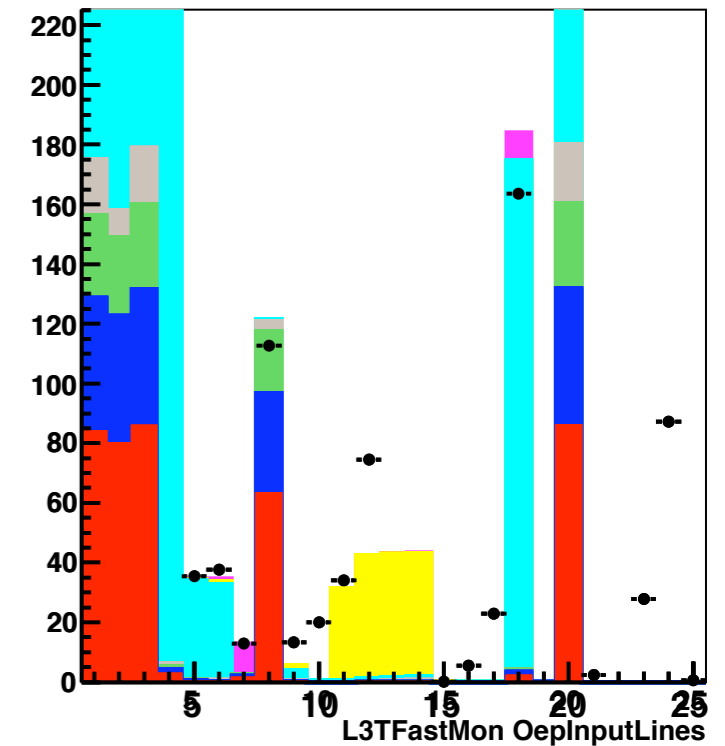
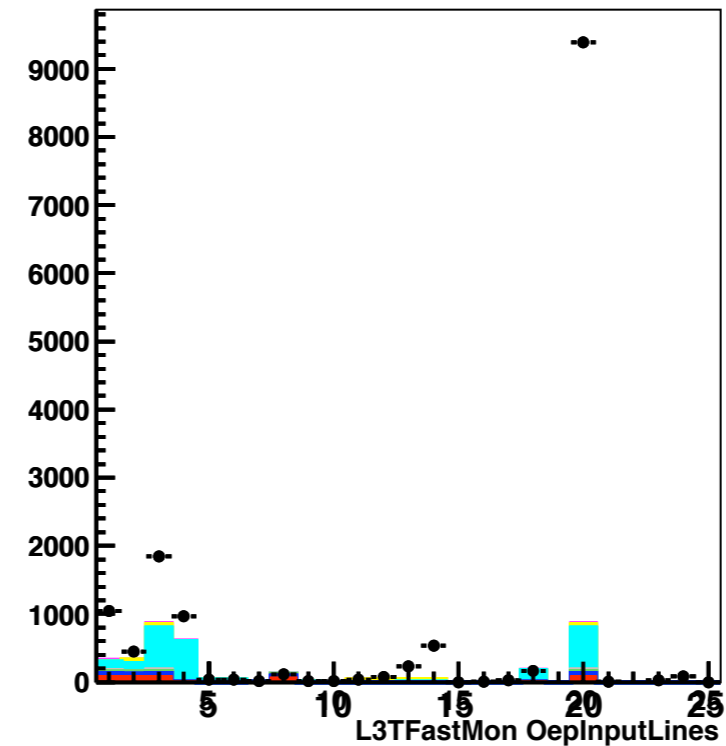


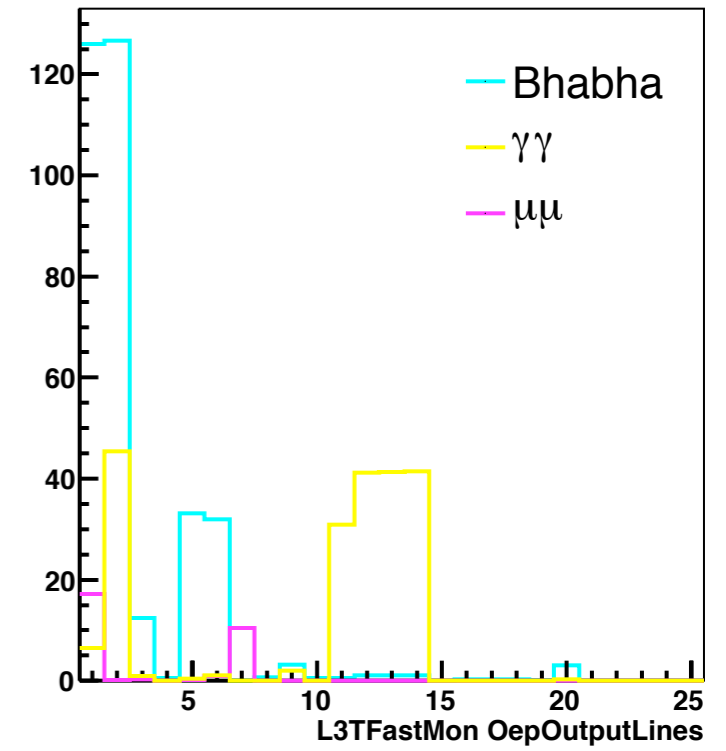
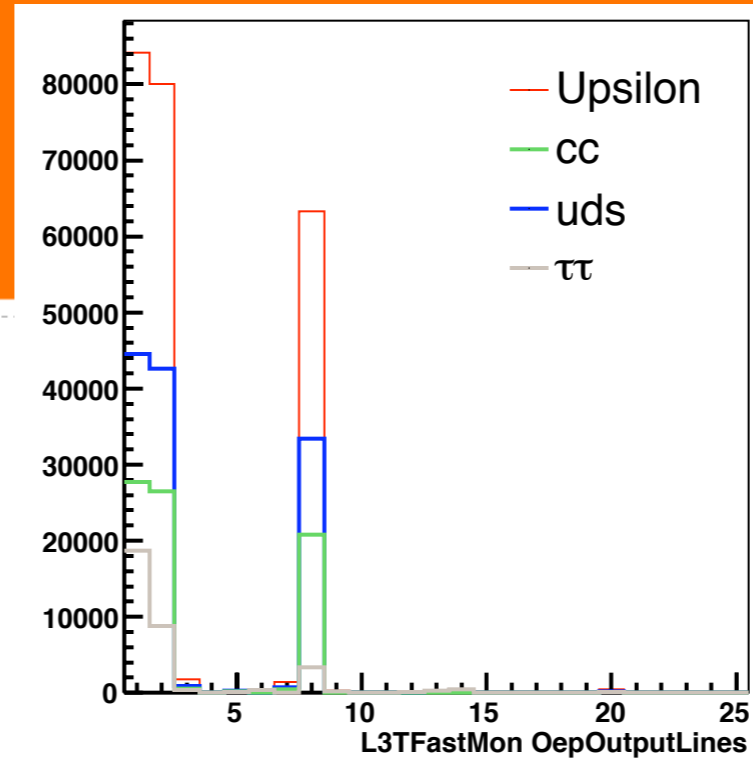
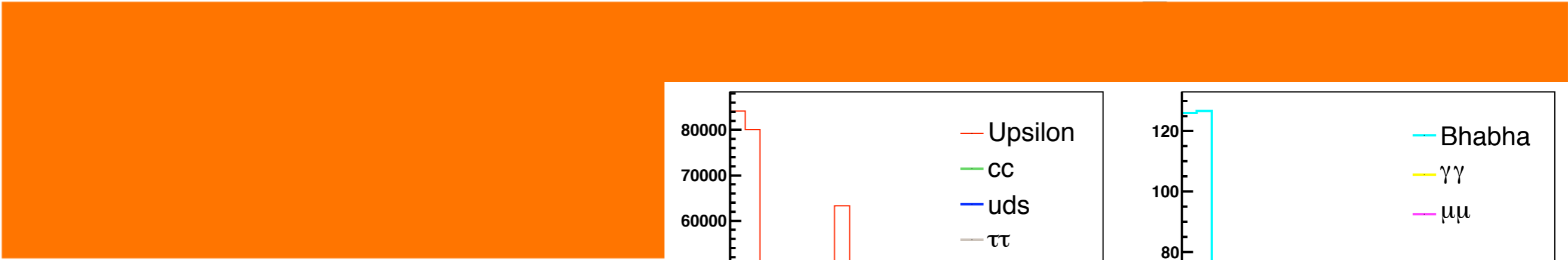
2008c

OepInputLines

Run 78499

22.218 pb⁻¹





2008c

OpeOutputLines

Run 78499

22.218 pb⁻¹

