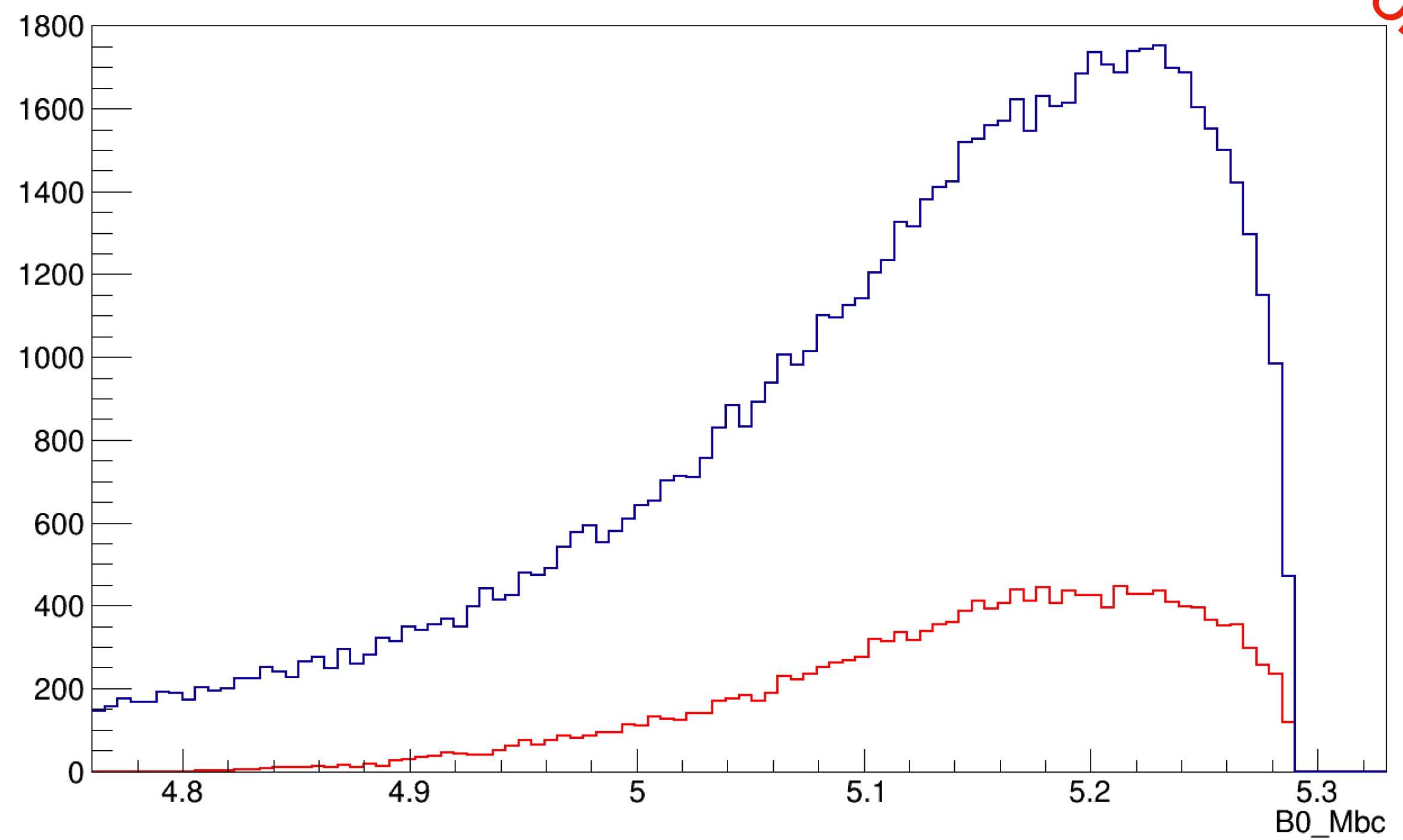$$B^0 \rightarrow D^{*-} \mu^+ \nu_\mu$$

M. Dorigo, M. Filipige, M. Mantovano
(University and INFN Trieste)

Weekly Meeting
July 8, 2022

MC14rd vs MC14rd (using collections)

Signal efficiency (using SignalMC) : 35.6%

MC14rd ($216fb^{-1}$)
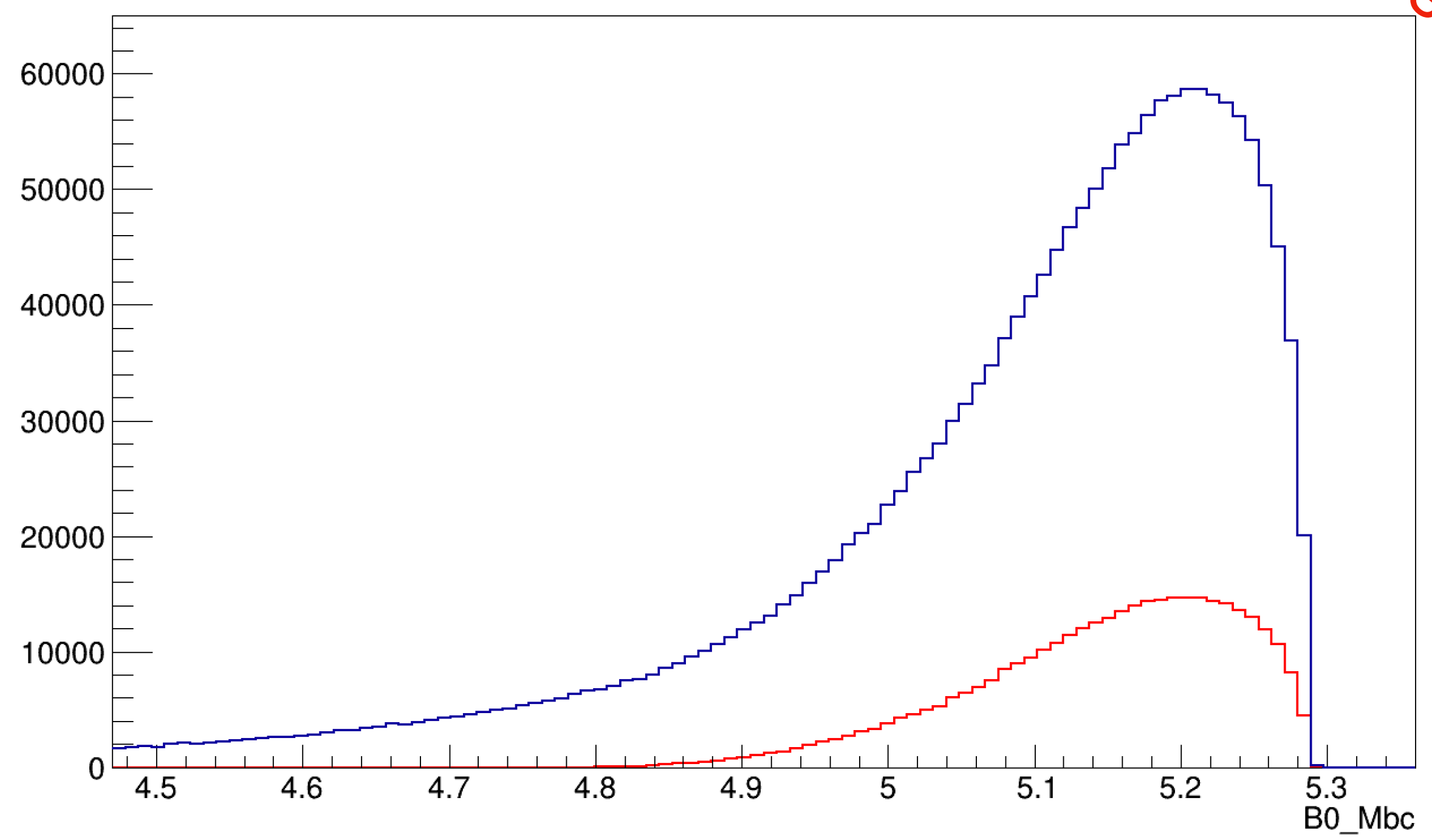
Wrong

MC14rd (using collections) ($750fb^{-1}$)

New

Total events: 85 070

Signal events: 16 936

Expected signal events: 106 280

Total events: 1 881 457
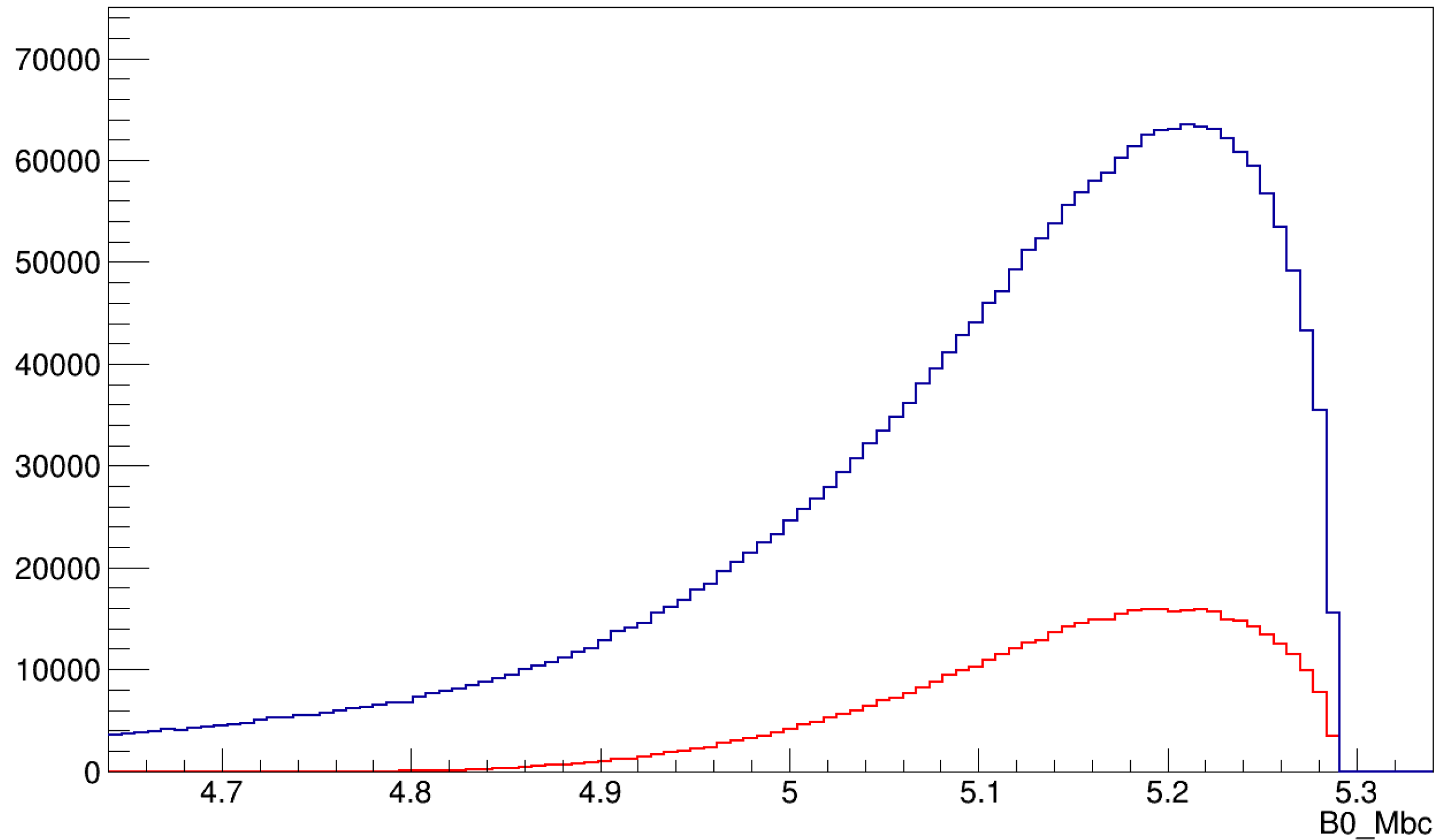
Signal events: 361 841

Expected signal events: 369 028

2

MC15ri vs MC14ri

Signal efficiency (using SignalMC) : 35.6%

Total events: 2 586 843
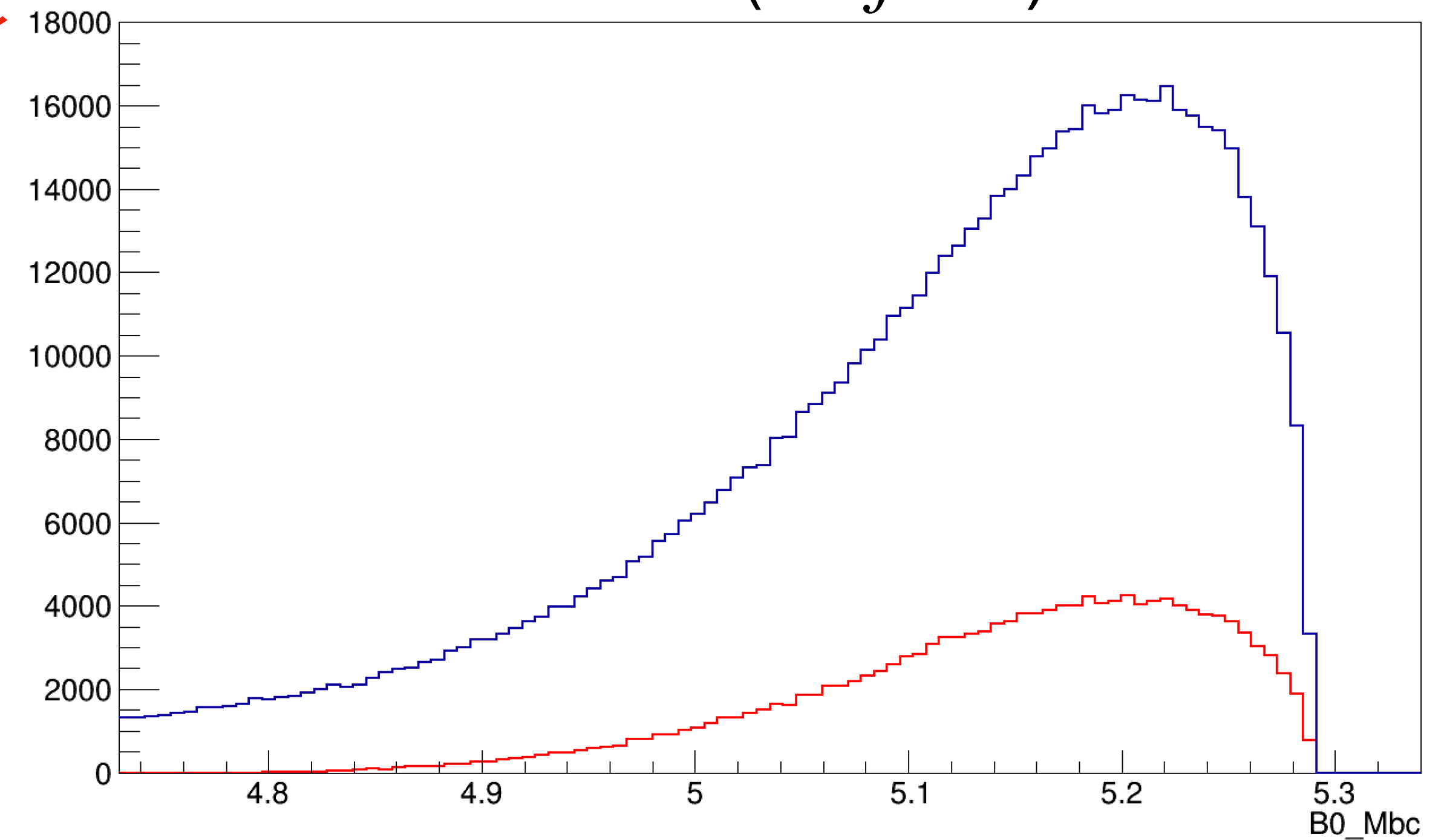
Signal events: 501 986

Expected signal events: 492 037

Total events: 750 715

Signal events: 150 689

Expected signal events: 147 611

3

Backup

Signal efficiency

New signal efficiency (using SignalMC) : 35.6%

$$N_{signal} = BR(x10^{-6}) \times 2 \times efficiency \times 0.487 \times 1.0384412849(x10^{6}) \times Lumi(fb^{-1})$$