Difference between $\mu^{\pm}$ yield from ICOOL at BNL & CERN: problem understood

Code difference

MARS:

Code version different at CERN & BNL. ~5%

ST2 field map (BNL) – ST2a field map (CERN). ~5%

ICOOL:

3.10 (CERN).

scatlev = 6 (BNL) – scatlev = 4 (CERN).

SHEET model 5 (BNL) - model 4 (CERN). ~ grid map

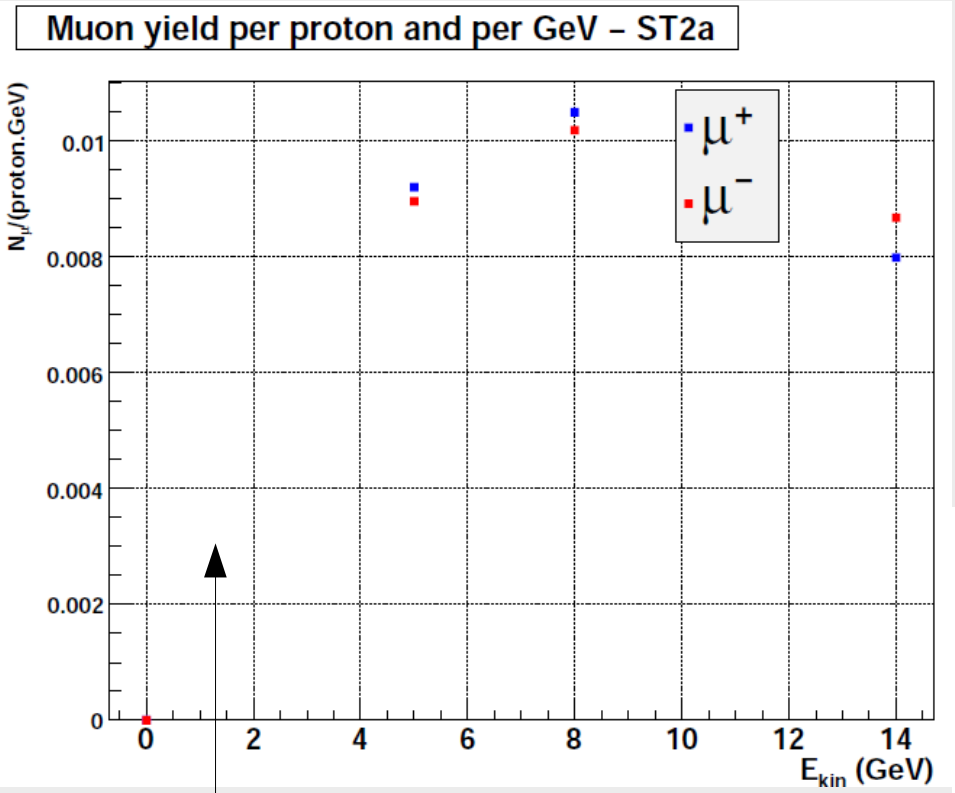
All particles (CERN) – only $\mu^{\pm}$ and $\pi^{\pm}$ (BNL).

≠ reference systems CERN=ICOOL/BNL=MARS ~2%

Bug in writing the particle absolute time

in ICOOL input file (CERN)

Yields from ecal9f



Cuts:

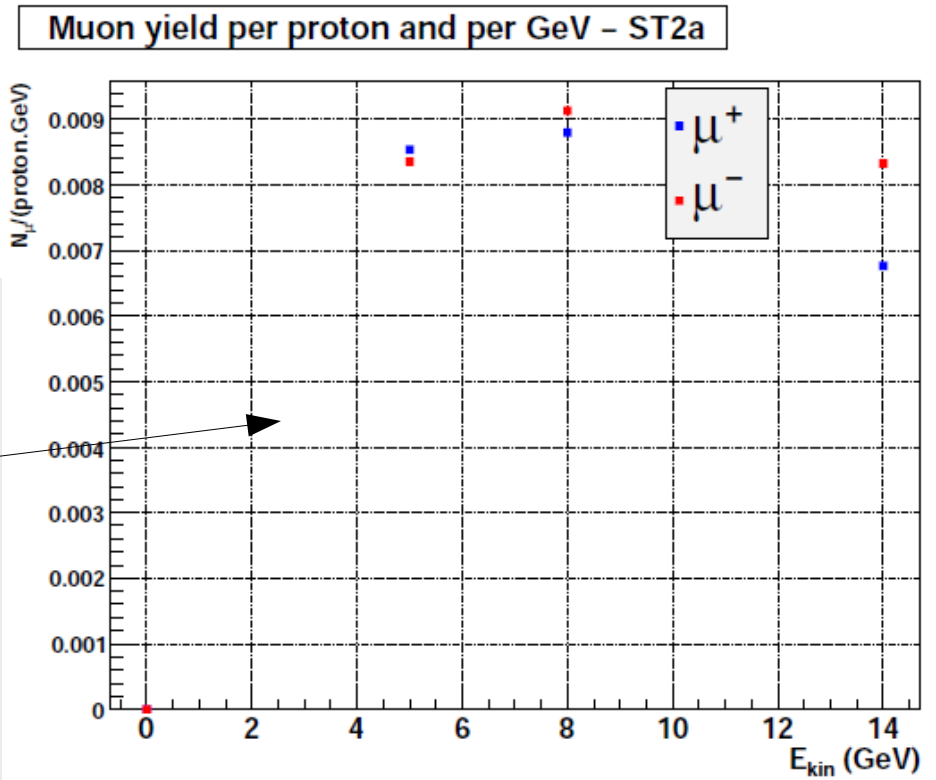
0.1 < p < 0.4 GeV

$A_{/\!/}$ = 150 mm

$A_{\perp}$ = 30 mm-rad.

BNL

CERN



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