DIPARTIMENTO DI SCIENZE
DI BASE E APPLICATE
PER L'INGEGNERIA

SAPIENZA
UNIVERSITÀ DI ROMA

Analysis Status

A. Sarti

Since last meeting

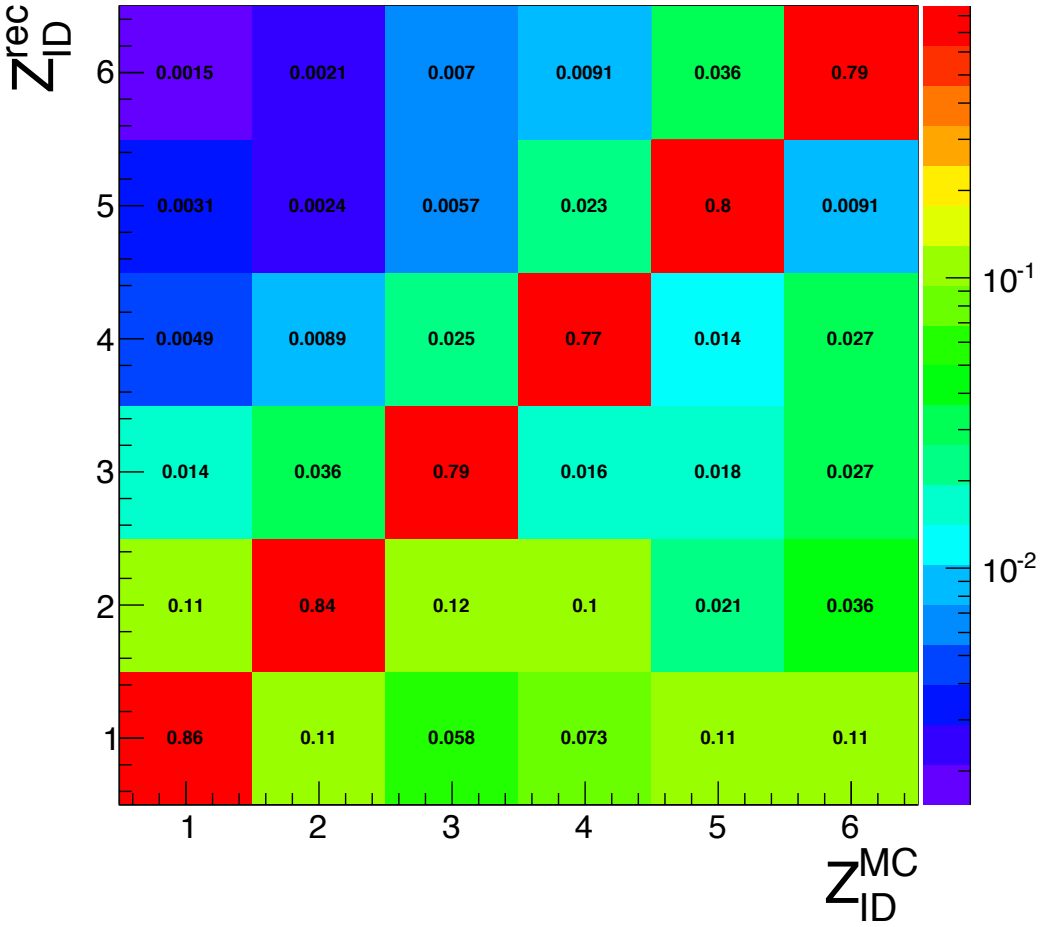
- Verified that the number of Carbons measured by the SC is basically ok:
  - Charge dist are ok, time distributions being checked right now
- Verified (m. toppi) the dependence of the momentum reconstruction on the charge hyp.
  - Procedure to assign a syst. has to be defined
- Fixed (V. Monaco) mom bias due to coarse stepping of mag field in fluka
- Deployed new MC code (C. Morone) overcoming fluka version problems and implemented NEW high density Carbon target.
  - To be Xchked in detail

.. cont'd

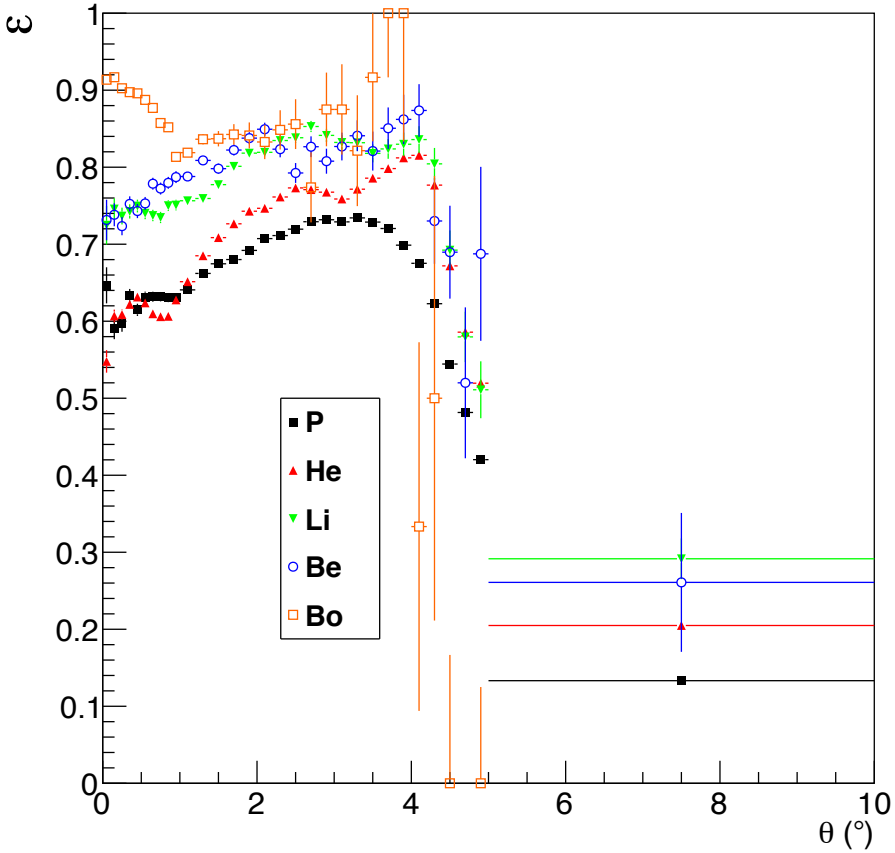
- Started the development of MC simulation code to measure Solid Angle (J. Pablo) and reconstruction efficiencies (B. Liu) to be Xchked with results presently obtained ON RECONSTRUCTED TRACKS by didier, toppi, monaco....
  - So far, implemented the true track momentum, as measured/generated on the VTX (crucial for resolution and also efficiency studies)
- Produced some "publicity plots" (to be upodated) for Firenze conference.

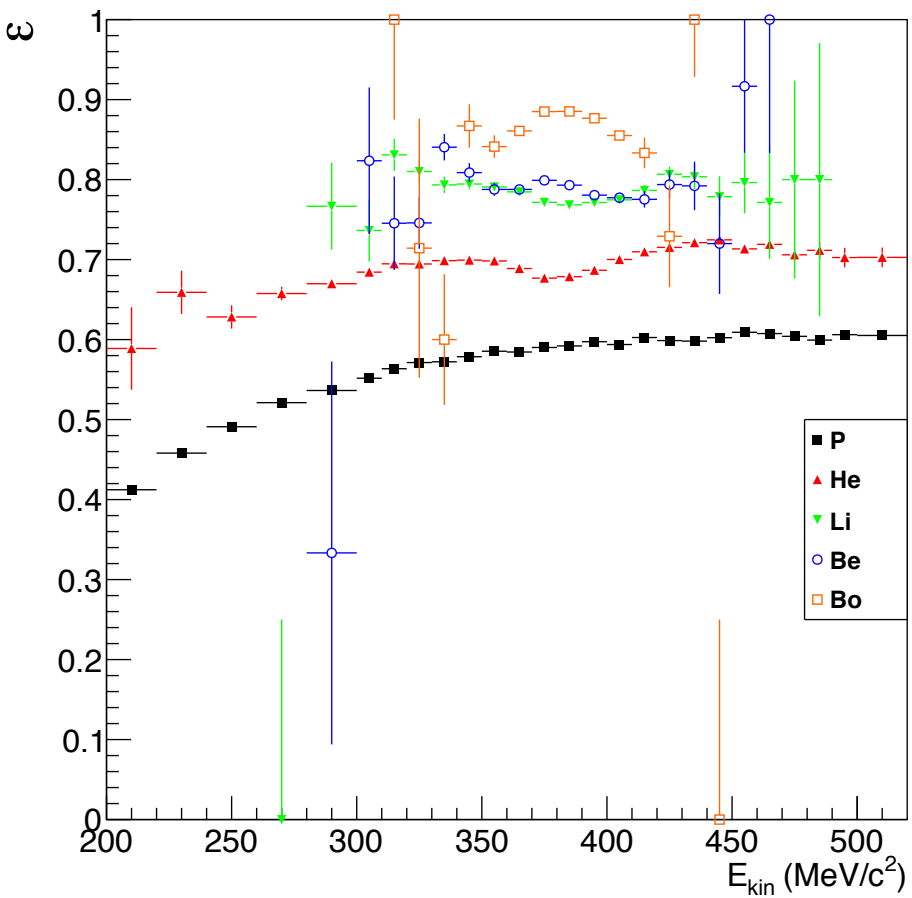
The Misid rainbow matrix

- v66 MC



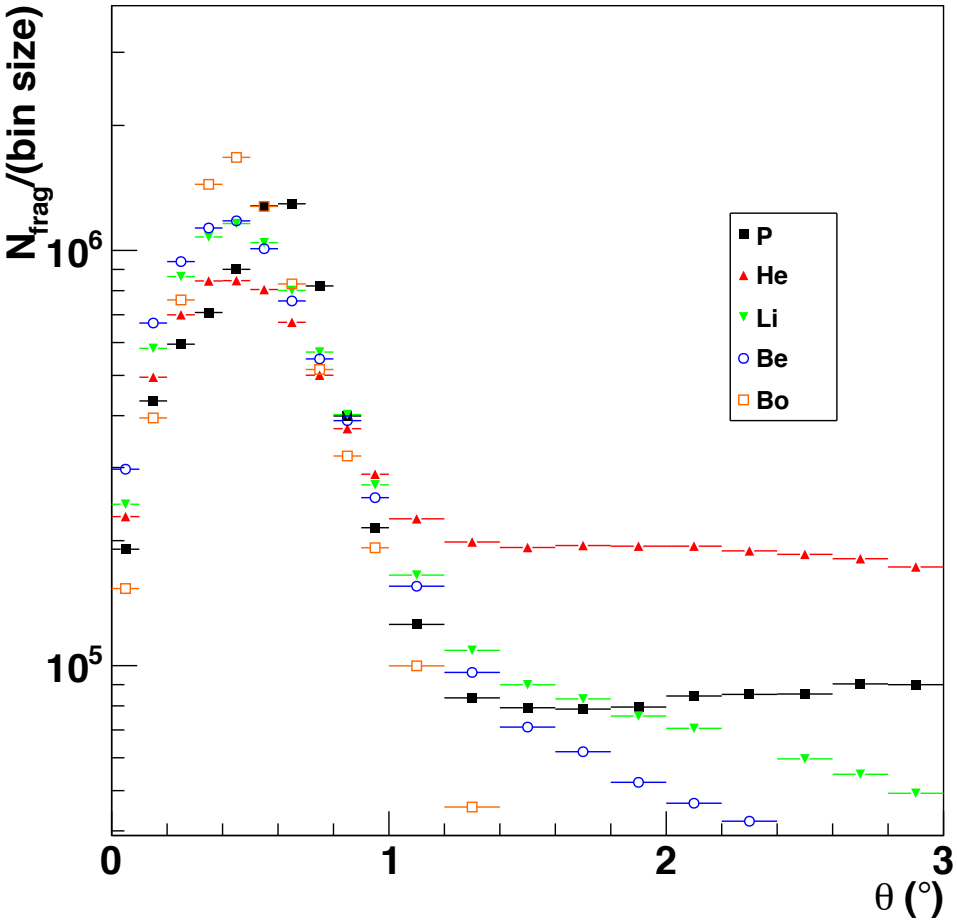
v66

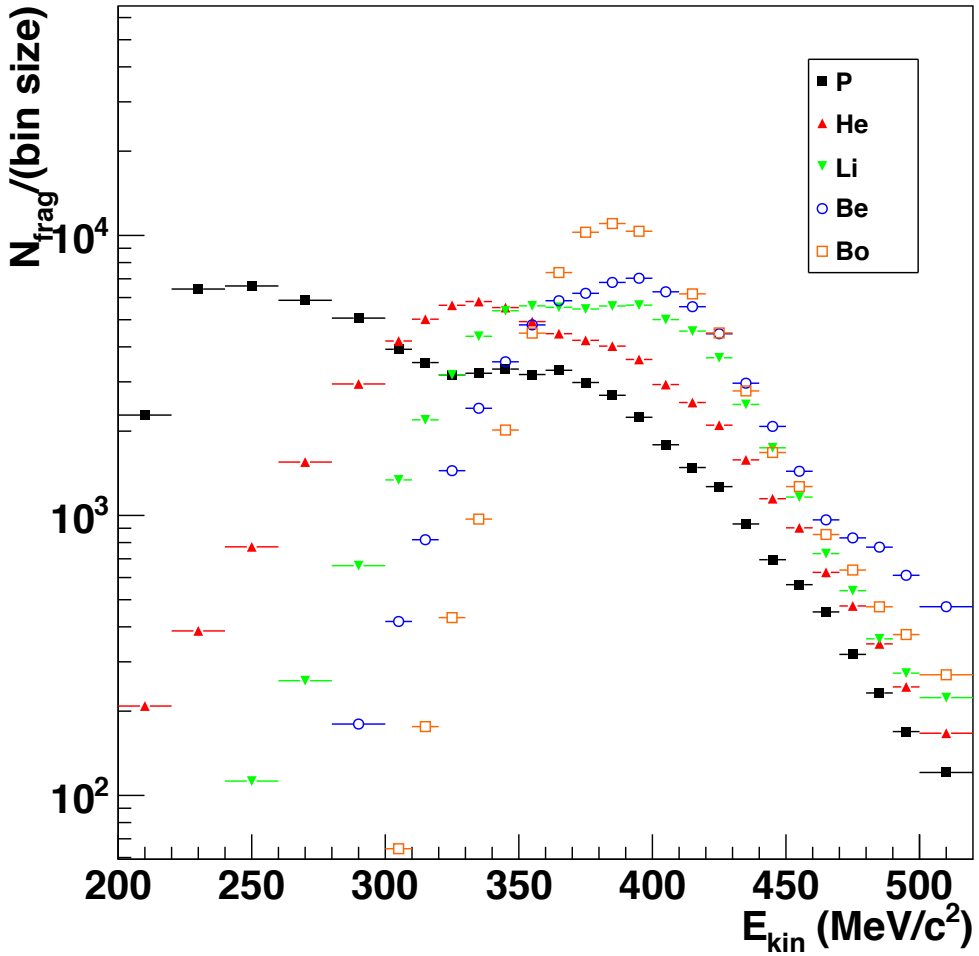




yields

normalized by hand





Future items

- Finalize SC studies/prepare plots supporting publication/public talk
- Check yields extraction fits
- Circulate code for Kentros cross calibration (tracks hitting SE and surviving + dying on ToF)
- Investigate issue with boron as raised by S. Tropea (comparing v55 and v56)
- Finalize efficiencies/solid angle calculations
- Follow up on ToF clustering