

Screening correction

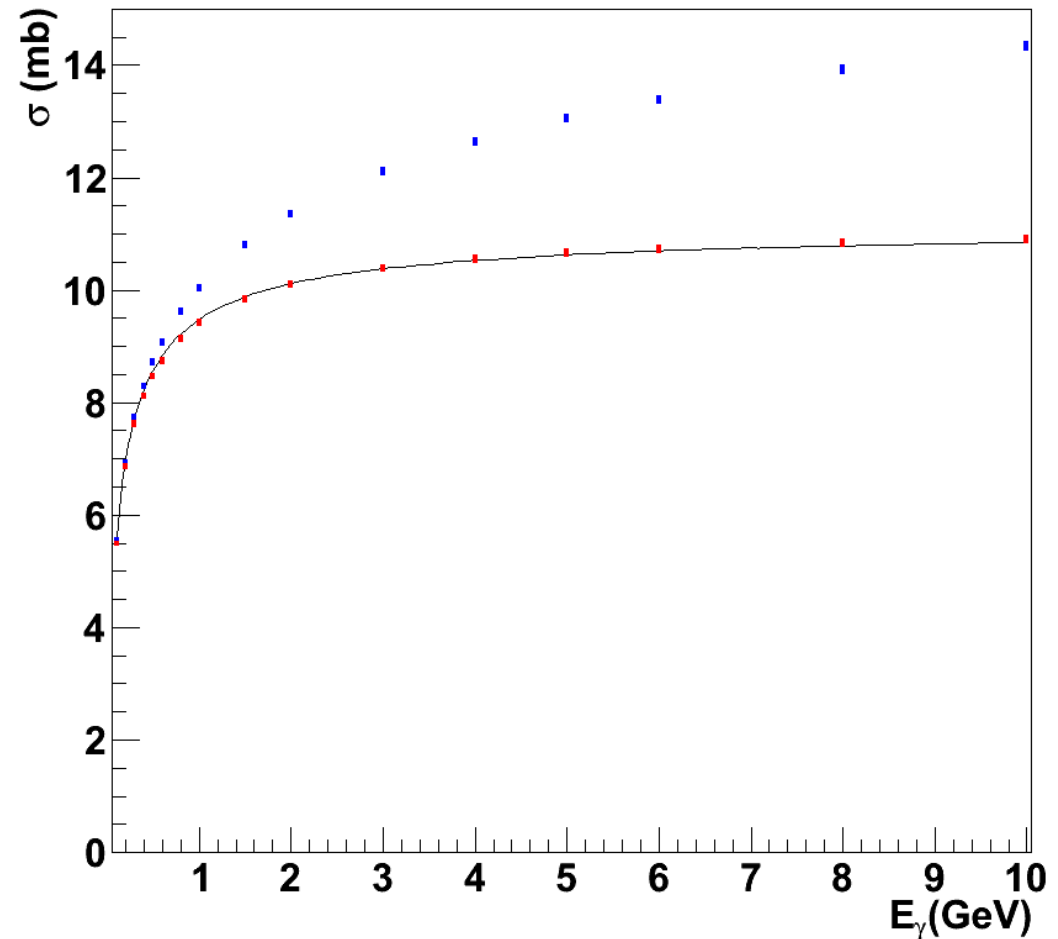
Screening correction

- Leonard Maximon informed me that the screening correction for triplet production should not be important for the beam asymmetry but was very important for the cross section
- Used the screening correction provided in the paper by Maximon and Gimm [1] to compare cross section results of the event generator to values from the NIST

[1] L. C. Maximon, H. A. Gimm Phys. Rev. A. 23, 1, (1981).

Comparison plot of total cross section for triplet production

- **Black line:** Total cross section from NIST
- **Blue points:** Total cross section from event generator without screening correction
- **Red points:** Total cross section from event generator with screening corrections included



- Very nice agreement once screening is included ☺