Results of a Monte-Carlo simulation of coincidence efficiency in a $\gamma \rightarrow pp$ reaction.

- The coincidence efficiency is defined as the percentage of protons detected by RHRS for events where a proton is detected in the LHRS.
- For each beam energy 10^5 iterations were used, leading to a statistical error better than 1%.
- The bremsstrahlung spectra for each energy was calculated using the attached "g3hemc.C " file. Bremsstrahlung energy was randomly chosen in the last 100 MeV according to that spectra.
- The internal pair momenta was chosen in the range 0-250 MeV according to the "Salme" distribution of the neutron momentum as calculated by "MCEEP".
- The simulation assumes:
 - maximum detector acceptance, that is a horizontal angle of ± 28 mr, a vertical angle of ± 60 mr and a momentum acceptance of $\pm 4.5\%$, located at a 1.2m distance from the target's center (z=0).
 - 100% overall detector efficiency.
 - a 1D target at -10cm<z<+10cm

