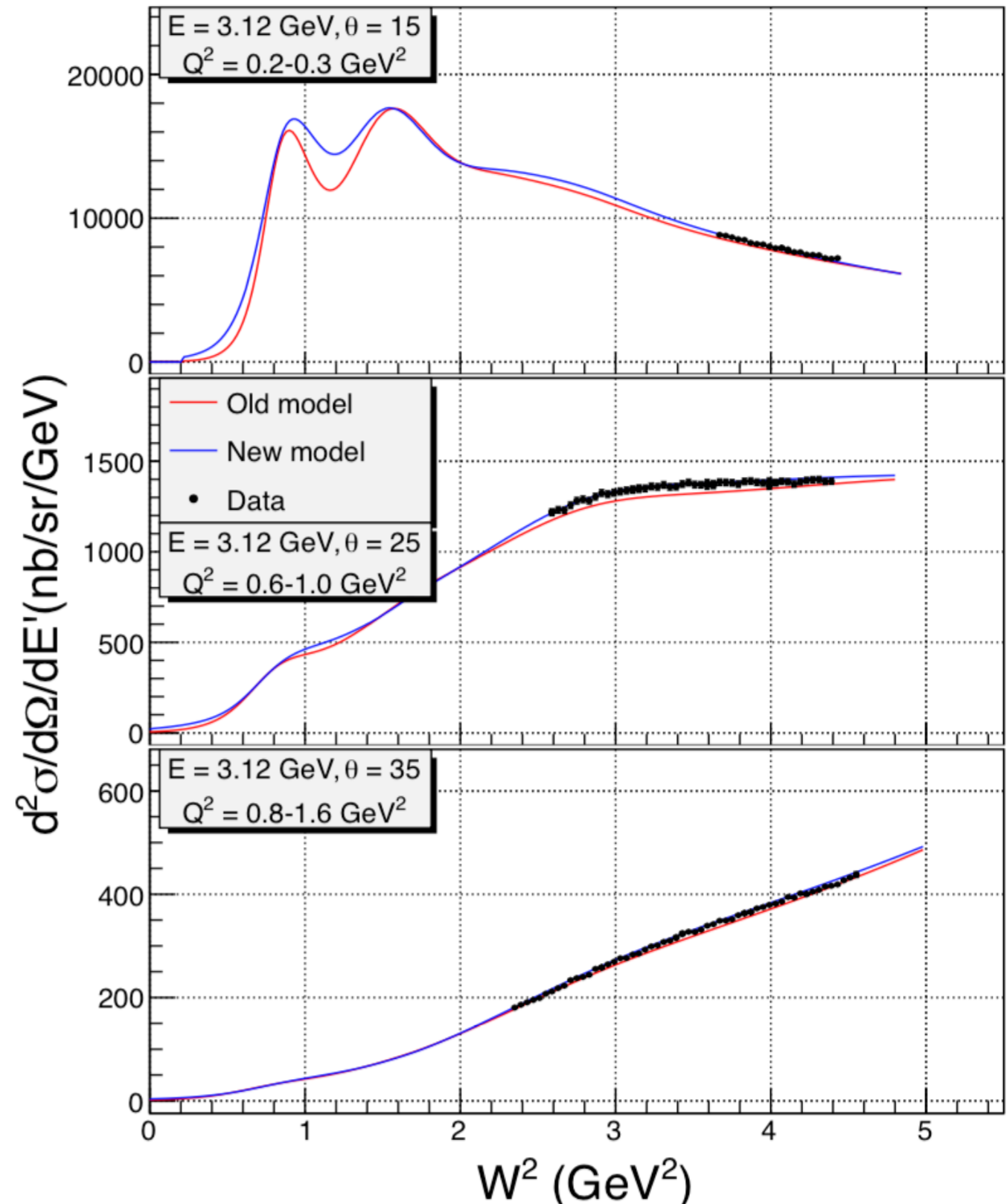


AI Simulations

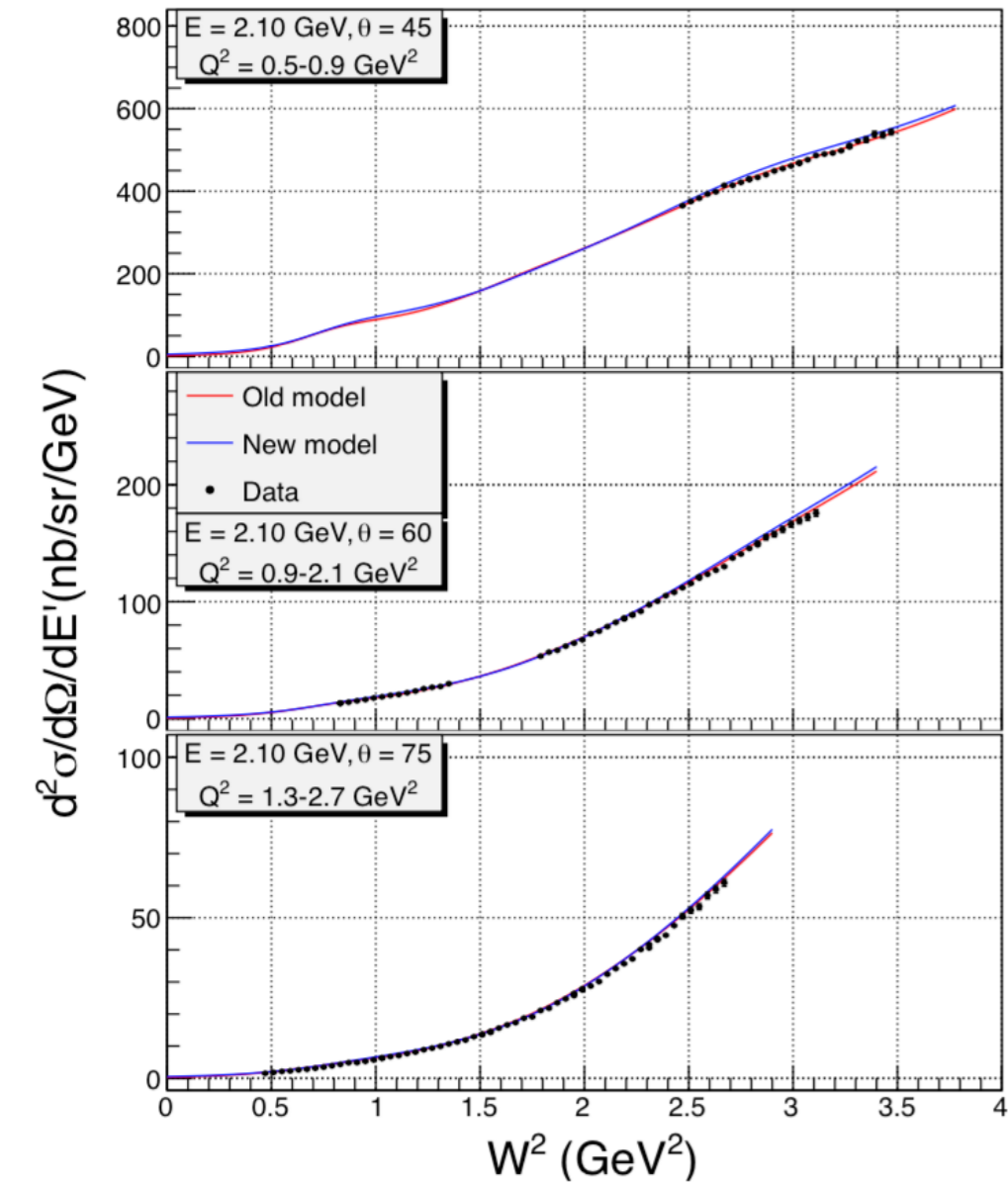
Ciprian Gal UVa

Available data

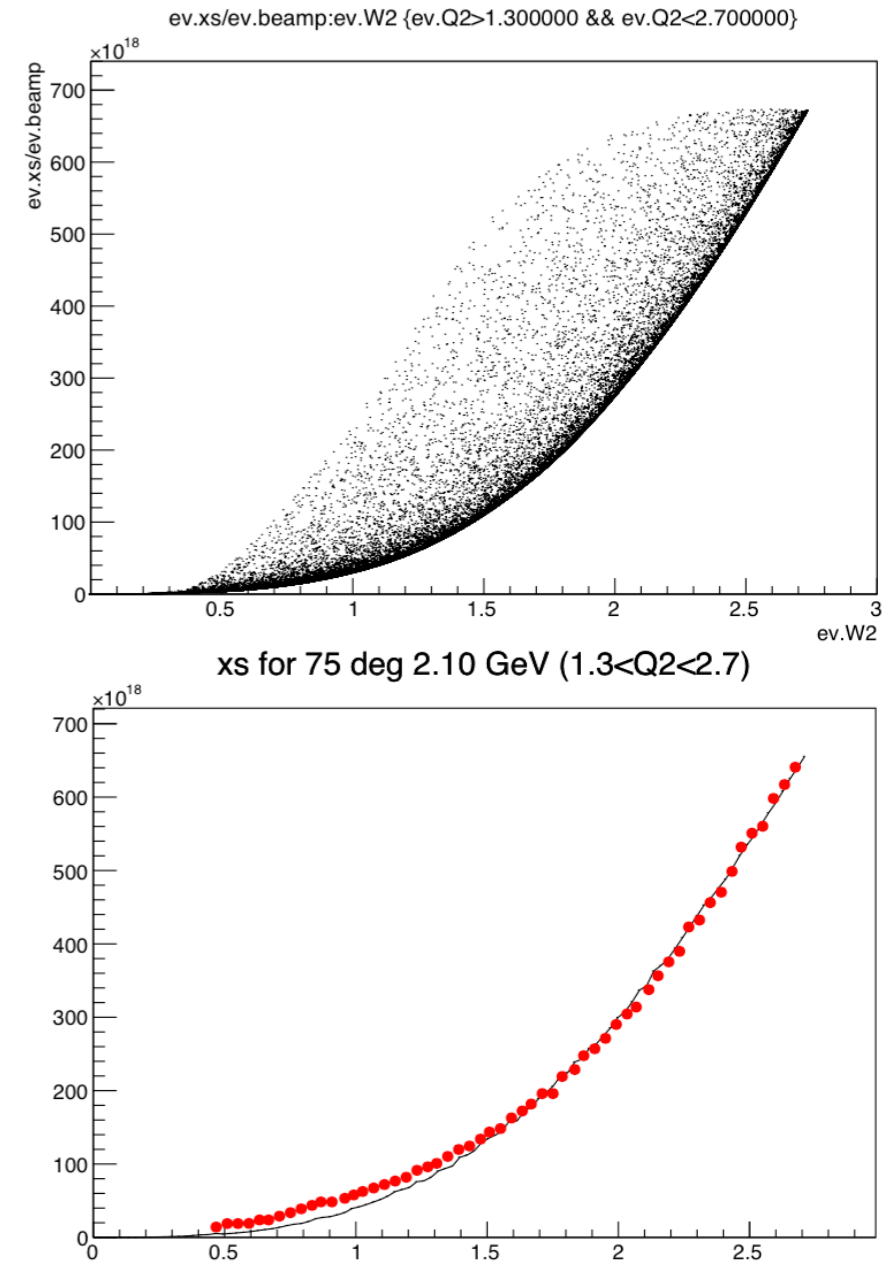
- Going through the supporting paper for the model fits, it seems that the only two sources of data are:
 - Compilation of world quasi-elastic data from <http://faculty.virginia.edu/qes-archive/QES-data.php>
 - Data from the thesis of Vahe Mamyan: <http://arxiv.org/abs/1202.1457> (I think then “new model” is what I implemented)
- The data has multiple angles and Q2 ranges



Available data

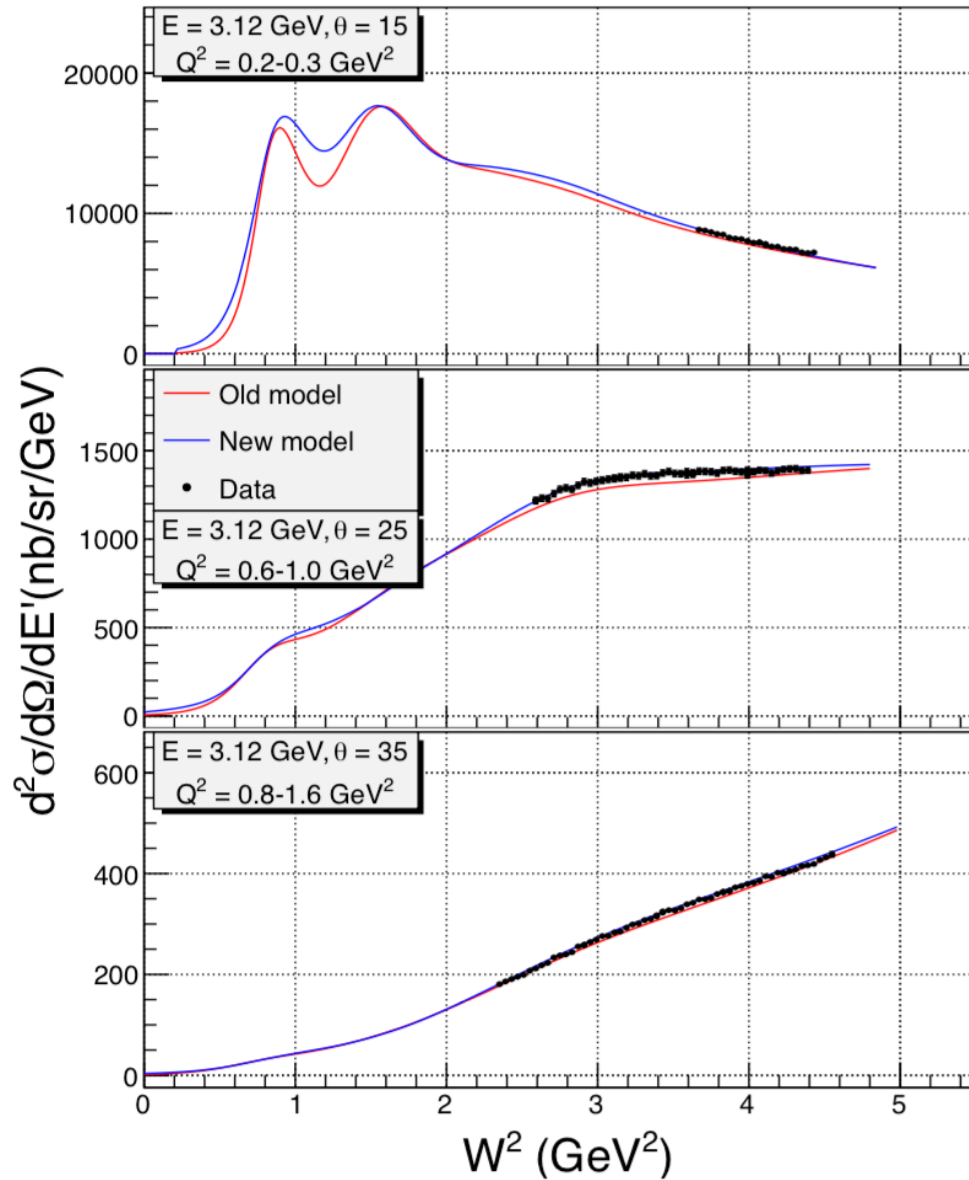


Beam E: 2.10 GeV
 theta: 75 deg
 $1.3 < Q^2 < 2.7 \text{ GeV}^2$

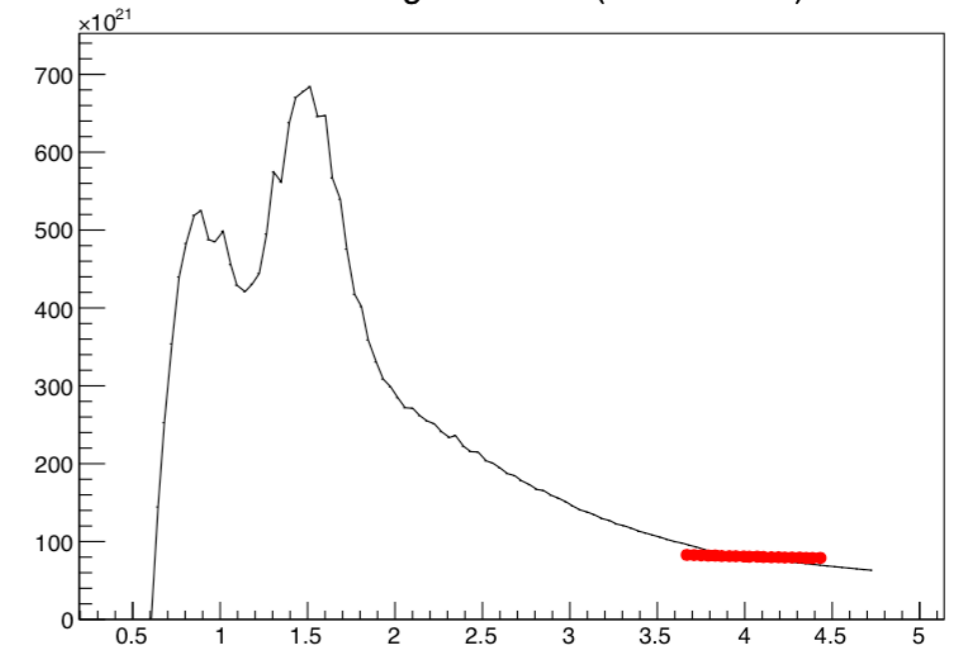
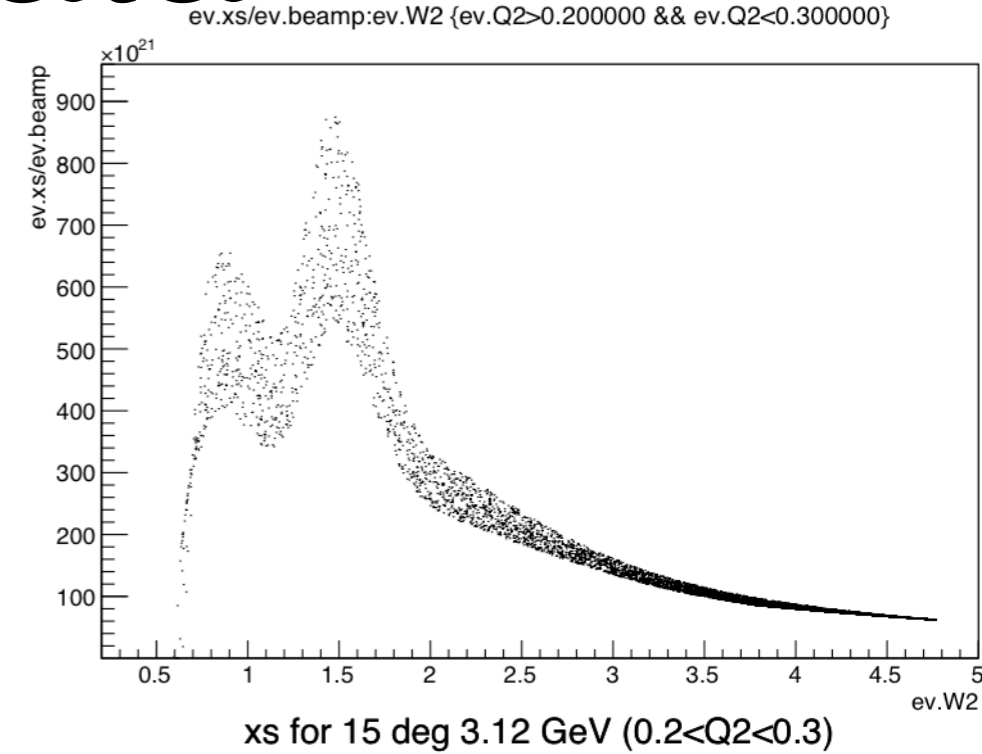


- Modified the remoll initial conditions to match some of the data from Mamyán in the hope to get the curves predicted on the left
- The red points are the data from the bottom left plot scaled to the cross section I get as output from remoll

Available data



Beam E: 3.12 GeV
 theta: 15 deg
 $0.2 < Q^2 < 0.3 \text{ GeV}^2$



- This shows significant differences compared to the Mamyan plots