

Weekly Report

1/25/19

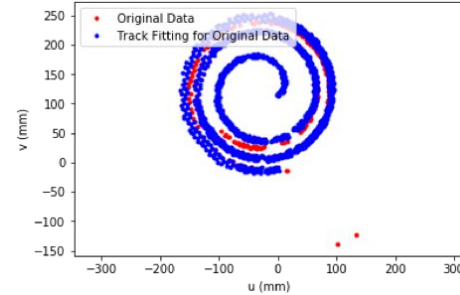
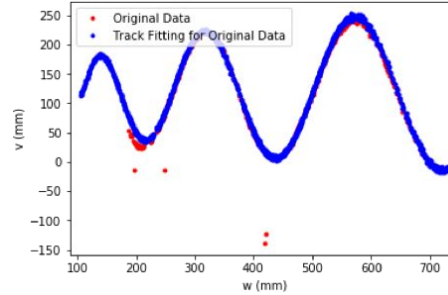
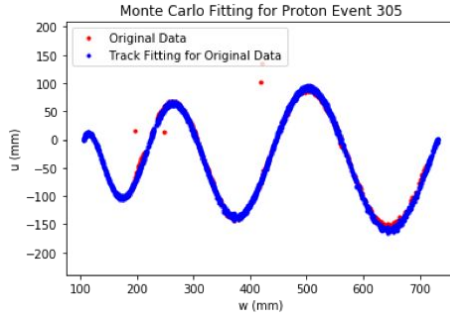
Christina Chen



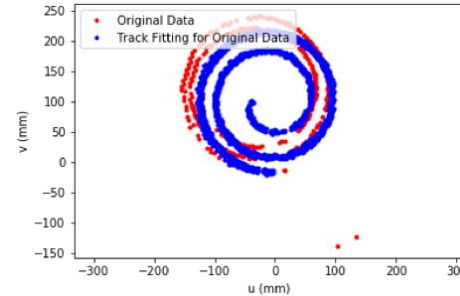
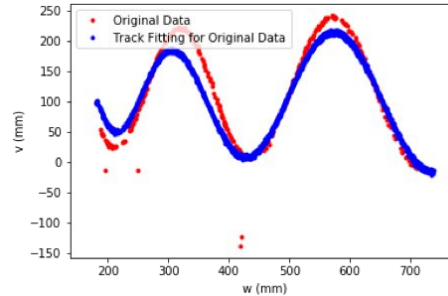
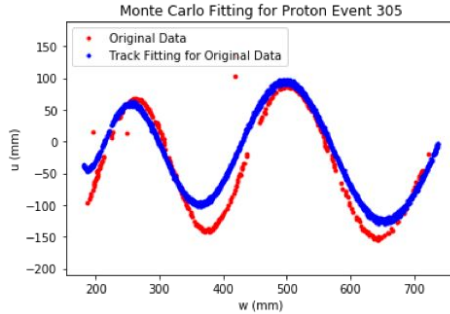
Some Fittings

Original vs. Modified

Event 305

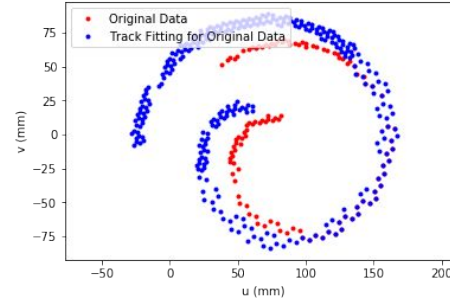
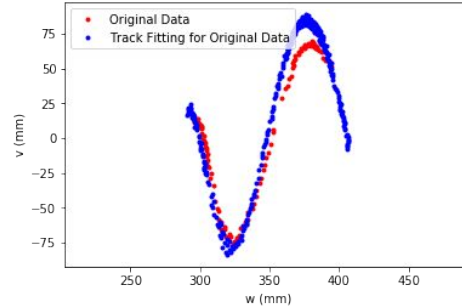
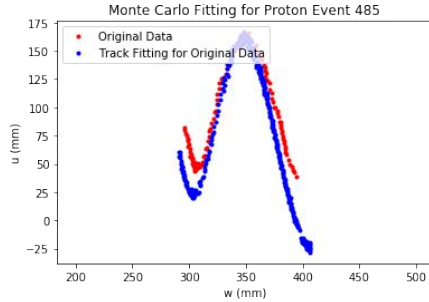


Original
 $\chi_{\text{pos}}^2=21.15$,
 $\chi_{\text{eng}}^2=7.92$,
 $\chi_{\text{vert}}^2=3.06$

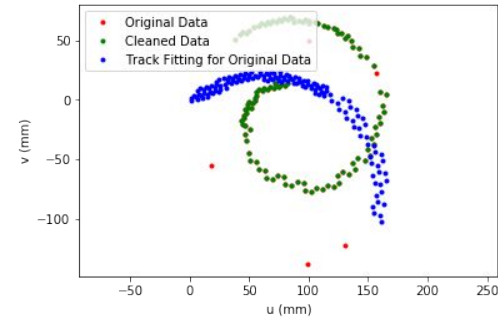
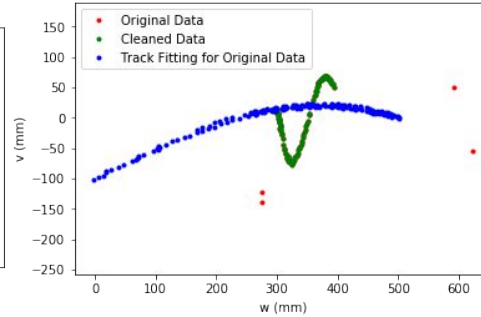
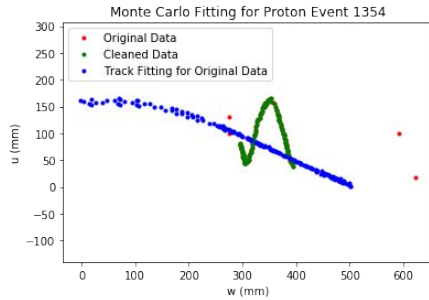


Modified
 $\chi_{\text{pos}}^2=21.28$,
 $\chi_{\text{eng}}^2=20.30$,
 $\chi_{\text{vert}}^2=0.74$

Event 485

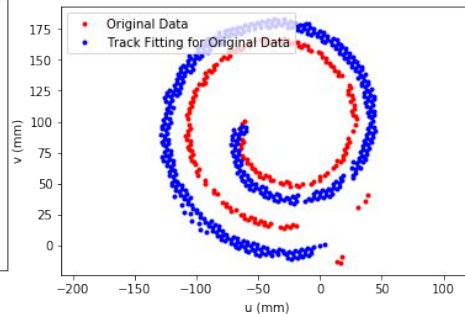
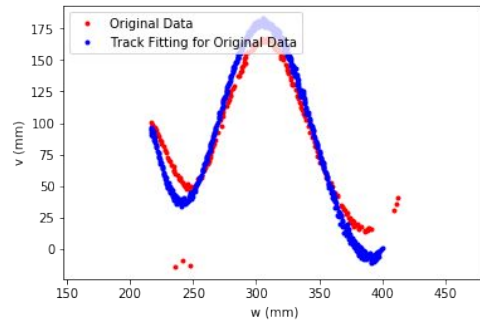
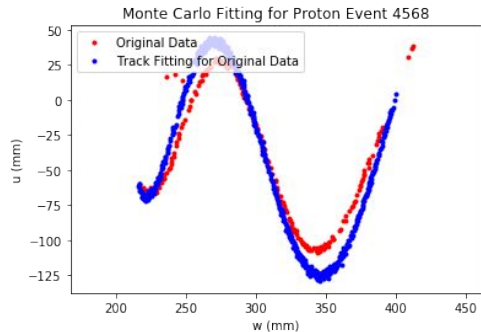


Original
 $\chi_{\text{pos}}^2=32.7$,
 $\chi_{\text{eng}}^2=19.2$,
 $\chi_{\text{vert}}^2=12.7$

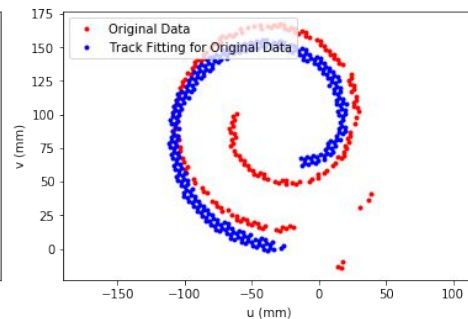
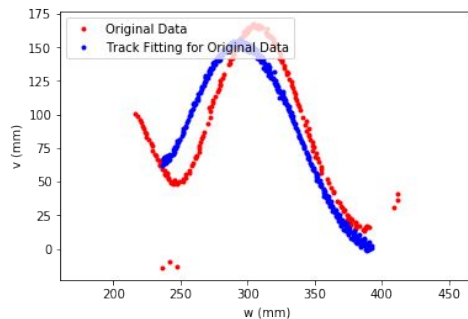
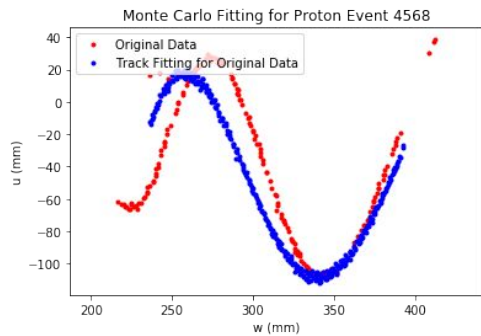


Modified
 $\chi_{\text{pos}}^2=$,
 $\chi_{\text{eng}}^2=$,
 $\chi_{\text{vert}}^2=$

Event 4568



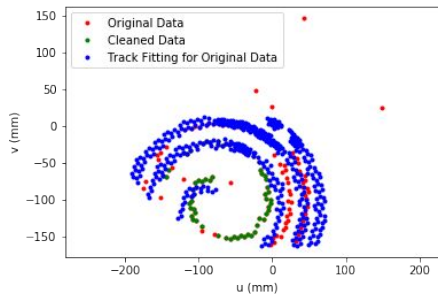
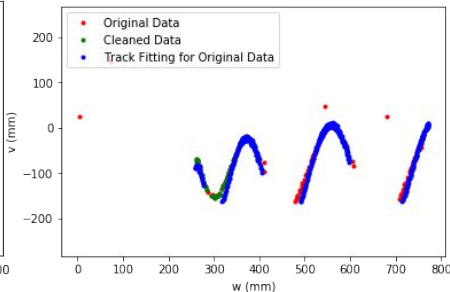
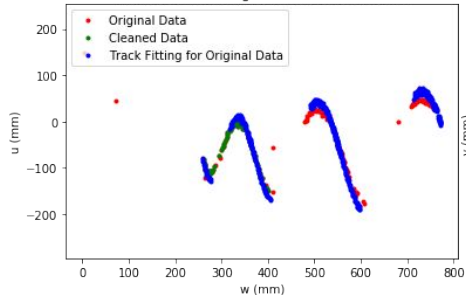
Original
 $\chi_{\text{pos}}^2=18.8$,
 $\chi_{\text{eng}}^2=7.5$,
 $\chi_{\text{vert}}^2=0.35$



Modified
 $\chi_{\text{pos}}^2=39.7$,
 $\chi_{\text{eng}}^2=55.4$,
 $\chi_{\text{vert}}^2=16.2$

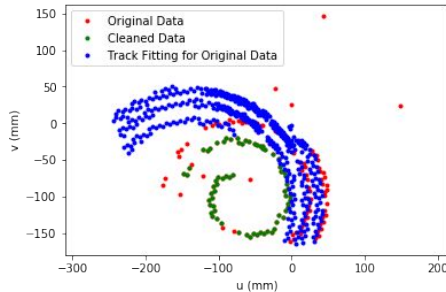
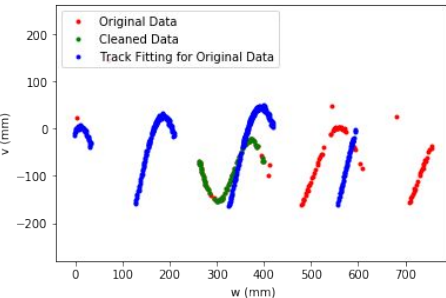
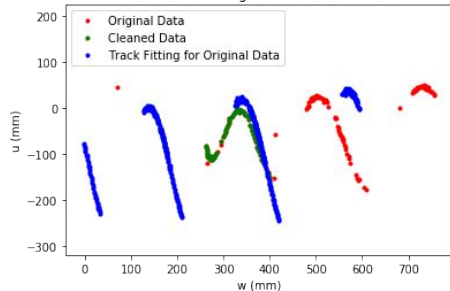
Event 1354

Monte Carlo Fitting for Proton Event 1354



Original
 $\chi_{\text{pos}}^2=32.7$,
 $\chi_{\text{eng}}^2=19.2$,
 $\chi_{\text{vert}}^2=12.7$

Monte Carlo Fitting for Proton Event 1354



Modified
 $\chi_{\text{pos}}^2=22.8$,
 $\chi_{\text{eng}}^2=12.5$,
 $\chi_{\text{vert}}^2=1.1$

Applying the event
classification model

1. Generate images (run 210 and 130)
2. Load the model and make predictions
 - a. Output in a matrix form
 - b. Length: 98575