



# KaonLTMeeting

November 9th, 2023

Richard Trotta

All offsets are in units...  
0.1% for momenta/energy, 1 mrad for angles

**Garth's 5 beam energy global offsets**

E: 3834.9 | 4932.0 | 6190.3 | 8208.8 | 10585.4 MeV  
dE: -0.5000 | -0.0000 | -0.5000 | -0.2000 | -0.3000

All energies...  
dthe 1.0000 dpe -0.0000 dthp 0.9000 dpp -1.0000

**Garth's 3 high beam energy global offsets**

E: 6190.3 | 8208.8 | 10585.4 MeV  
dE: -0.6000 | -0.3000 | -0.4000

All energies...  
dthe 1.0000 dpe -0.0000 dthp 0.8000 dpp -1.2000

| Ebeam     | P_HMS     | P_SHMS   |
|-----------|-----------|----------|
| 10,585.37 | -6,590.00 | 4,840.00 |
| 8,208.83  | -4,672.00 | 4,371.00 |
| 6,190.09  | -3,571.00 | 3,486.00 |
| 4,933.00  | -3,124.00 | 2,583.00 |
| 3,835.00  | -2,026.00 | 2,583.00 |

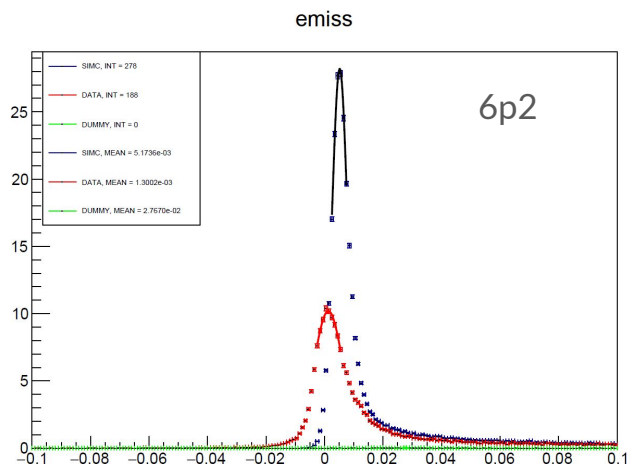
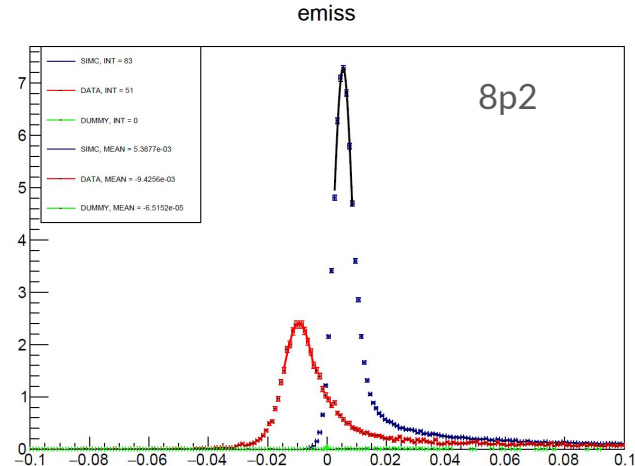
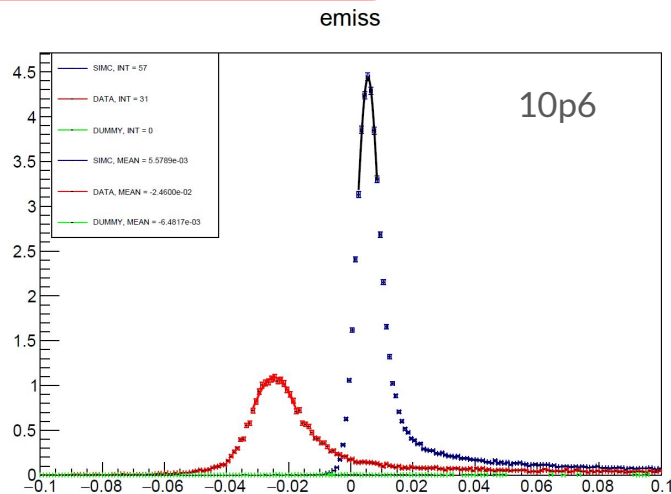
## Garth's 3 high beam energy global offsets

E: 6190.3 | 8208.8 | 10585.4 MeV

dE: -0.6000 | -0.3000 | -0.4000

All energies...

dthe 1.0000 dpe -0.0000 dthp 0.8000 dpp 1.2000



All offsets are in units...  
0.1% for momenta/energy, 1 mrad for angles

Garth's 5 beam energy global offsets

E: 3834.9 | 4932.0 | 6190.3 | 8208.8 | 10585.4 MeV  
dE: -0.5000 | -0.0000 | -0.5000 | -0.2000 | -0.3000

All energies...  
dthe 1.0000 dpe -0.0000 dthp 0.9000 dpp -1.0000

My adjusted offsets (adjusted from 5-beam)

E: 3834.9 | 4932.0 | 6190.3 | 8208.8 | 10585.4 MeV  
dpp: -1.0000 | -1.0000? | -3.0000 | -5.0000 | -7.0000  
dE: -0.5000 | -0.5000? | -0.5000 | -0.2000 | -0.3000

All energies...  
dthe 1.0000 dpe -0.0000 dthp 0.9000

| Ebeam     | P_HMS     | P_SHMS   |
|-----------|-----------|----------|
| 10,585.37 | -6,590.00 | 4,840.00 |
| 8,208.83  | -4,672.00 | 4,371.00 |
| 6,190.09  | -3,571.00 | 3,486.00 |
| 4,933.00  | -3,124.00 | 2,583.00 |
| 3,835.00  | -2,026.00 | 2,583.00 |

dthe 1.0000 mrad dpe -0.0000 %

dthp 0.9000 mrad

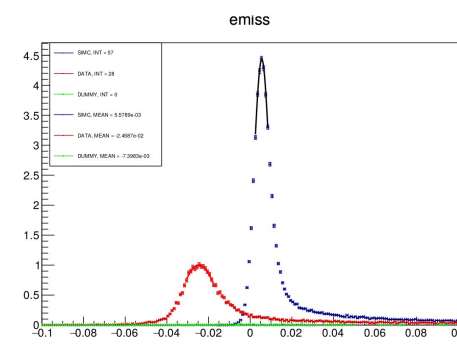
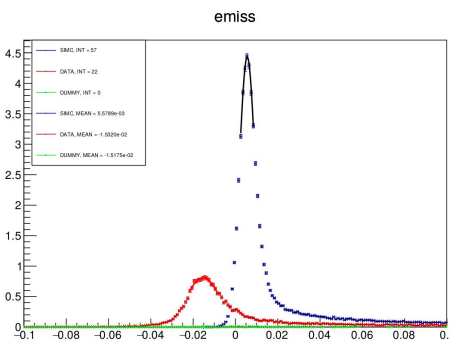
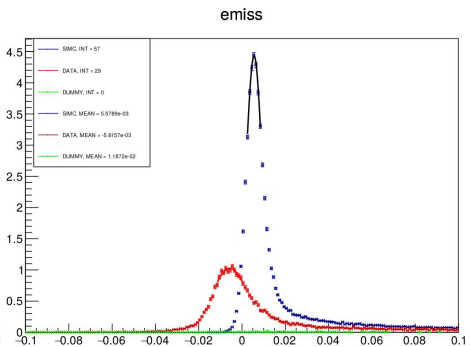
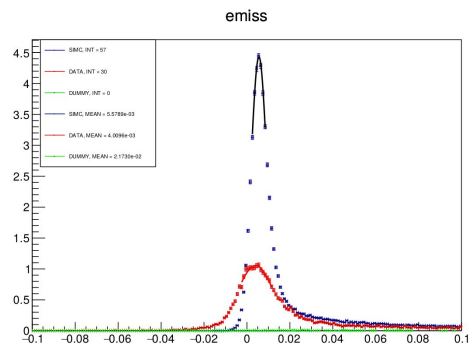
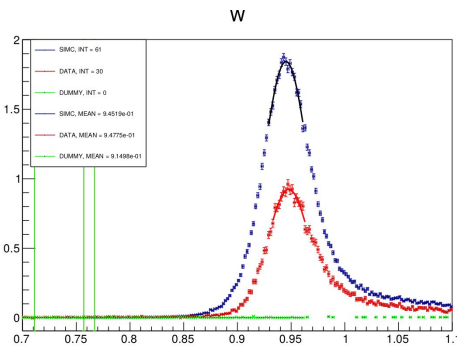
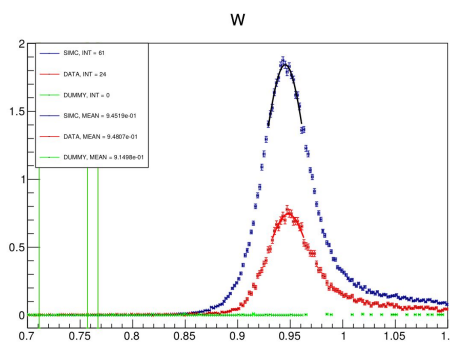
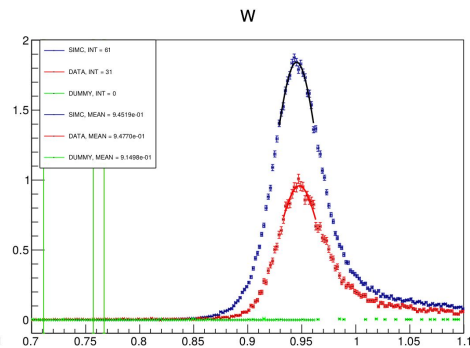
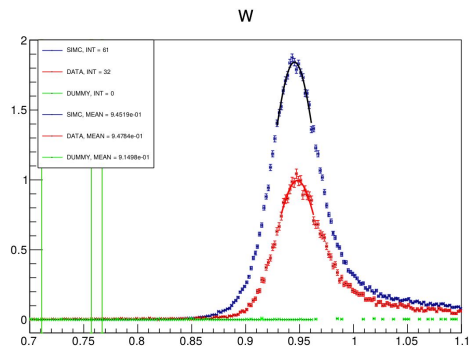
dE -0.03%

dpp -0.7%

dpp -0.5%

dpp -0.3%

dpp -0.1%

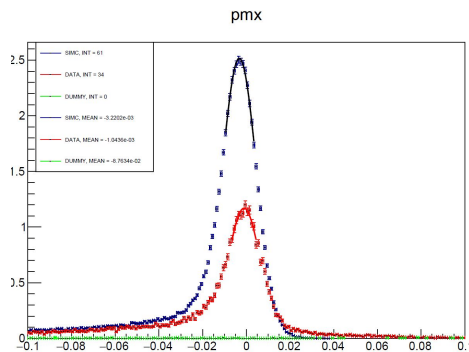


dthe 1.0000 mrad dpe -0.0000 %

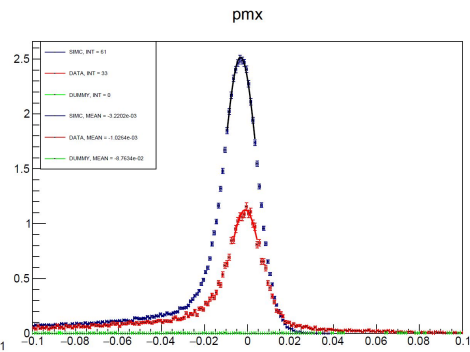
dthp 0.9000 mrad

dE -0.03%

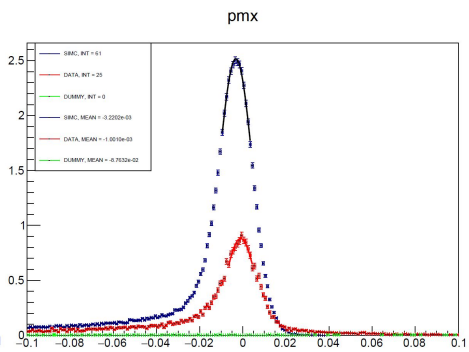
dpp -0.7%



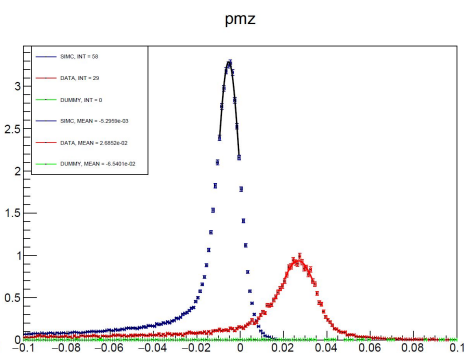
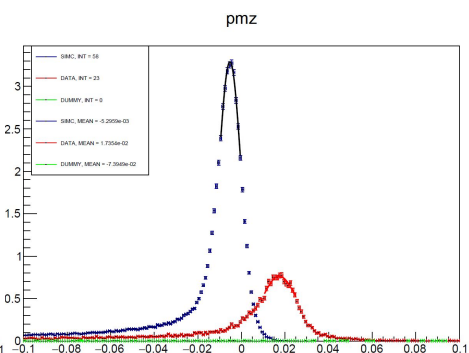
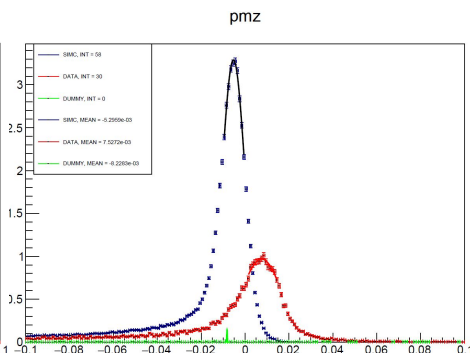
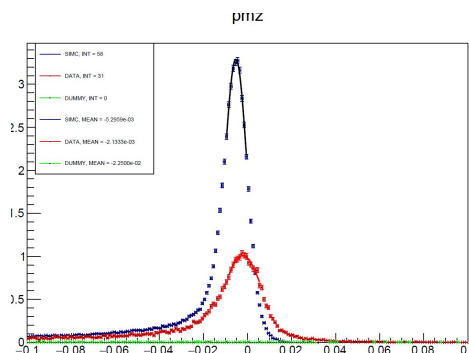
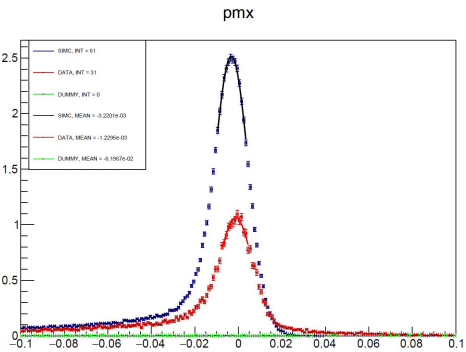
dpp -0.5%



dpp -0.3%



dpp -0.1%



dthe 1.0000 mrad dpe -0.0000 %

dthp 0.9000 mrad

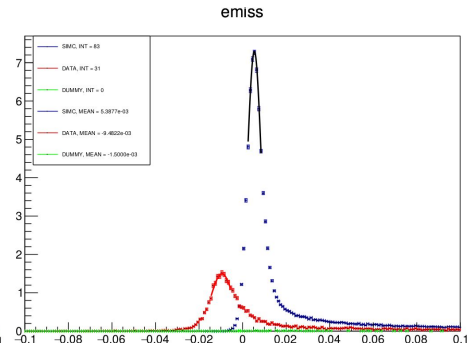
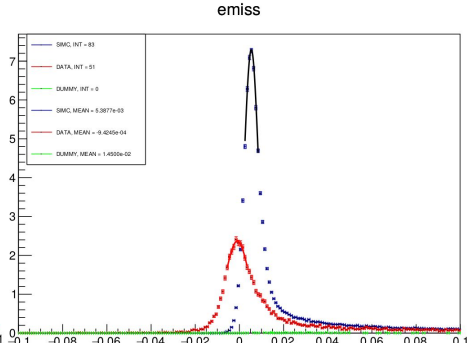
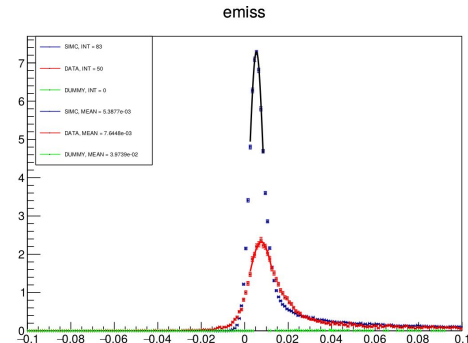
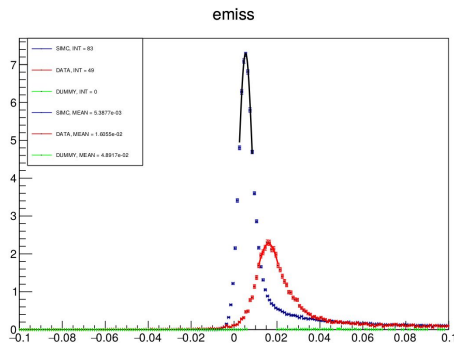
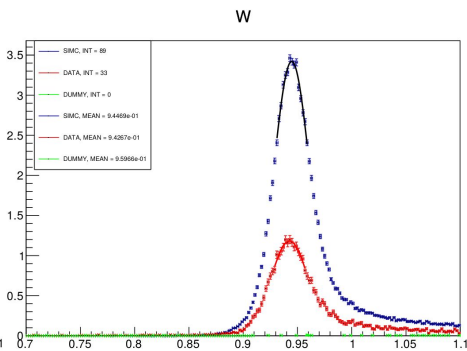
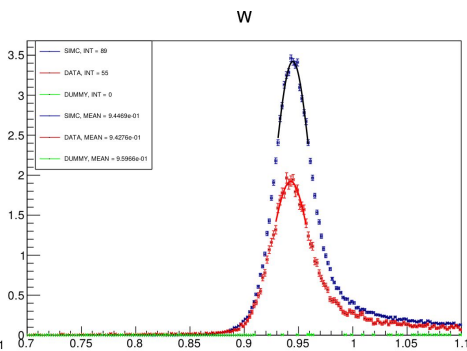
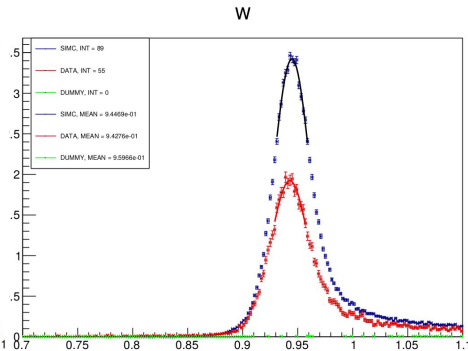
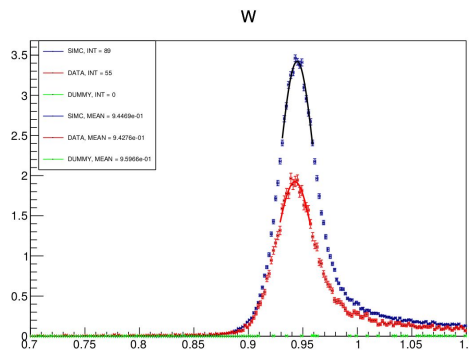
dE -0.02%

dpp -0.7%

dpp -0.5%

dpp -0.3%

dpp -0.1%



dthe 1.0000 mrad dpe -0.0000 %

dthp 0.9000 mrad

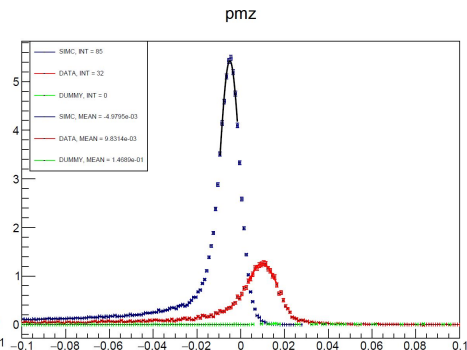
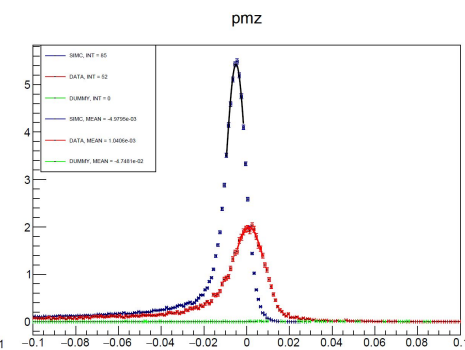
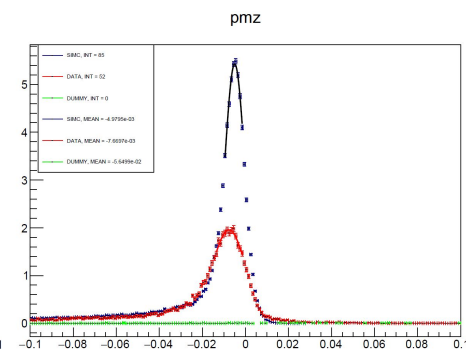
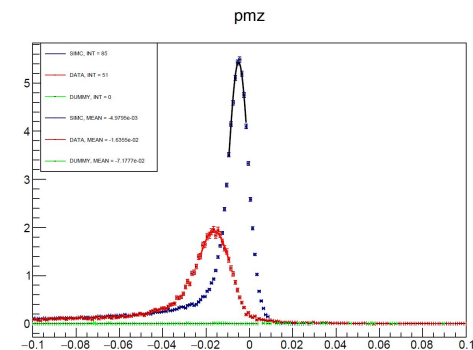
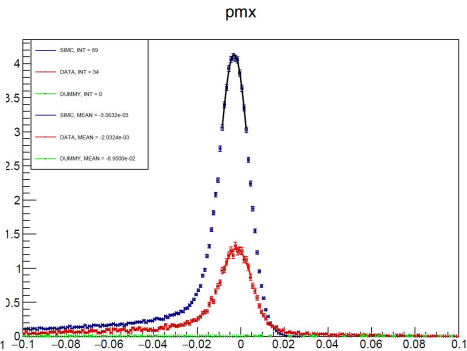
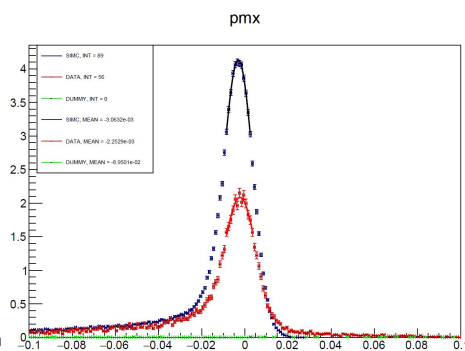
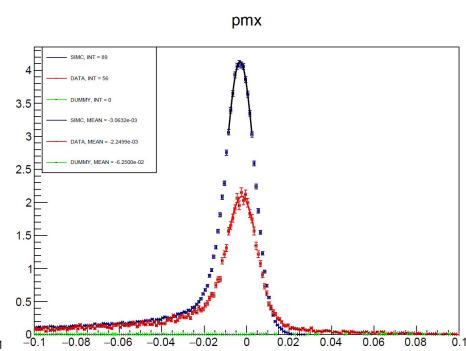
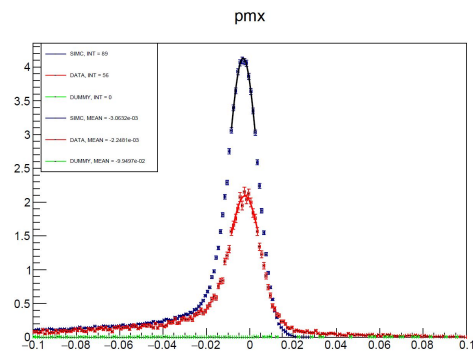
dE -0.02%

dpp -0.7%

dpp -0.5%

dpp -0.3%

dpp -0.1%





dthe 1.0000 mrad dpe -0.0000 %

dthp 0.9000 mrad

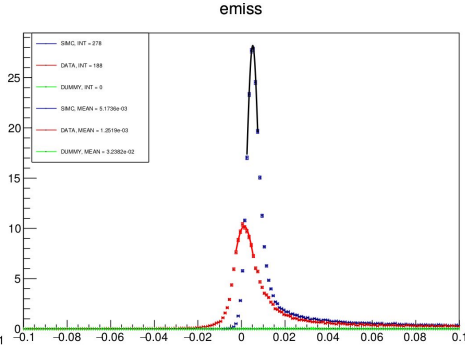
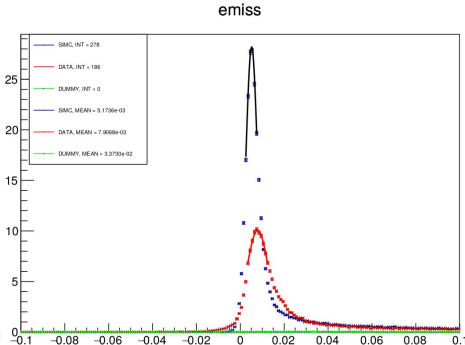
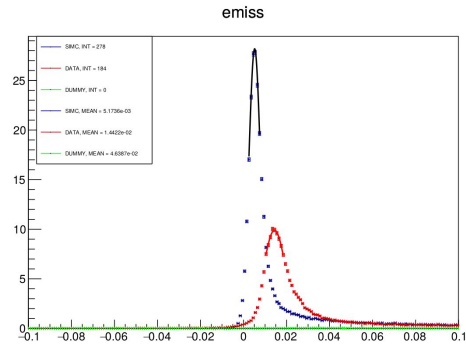
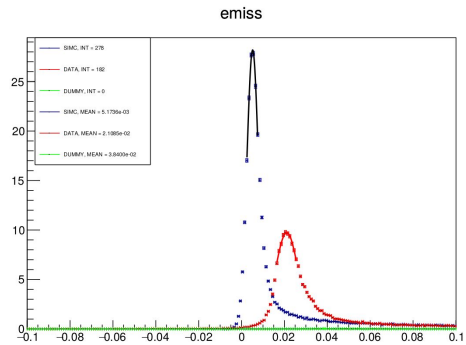
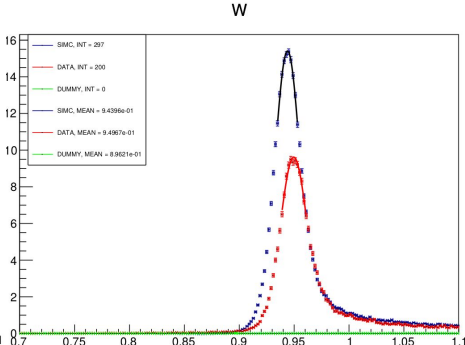
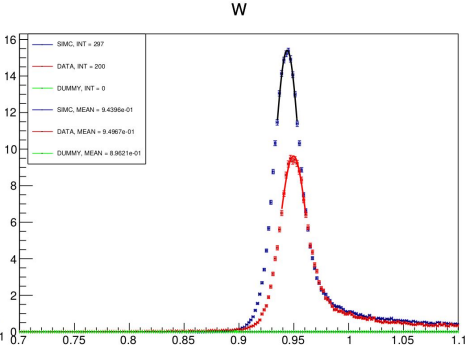
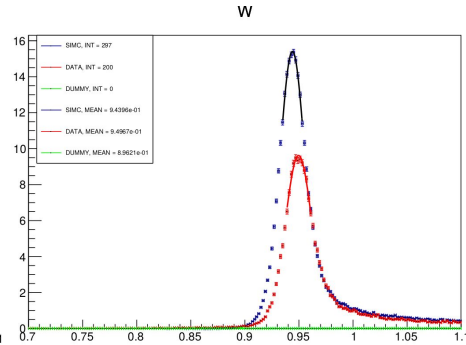
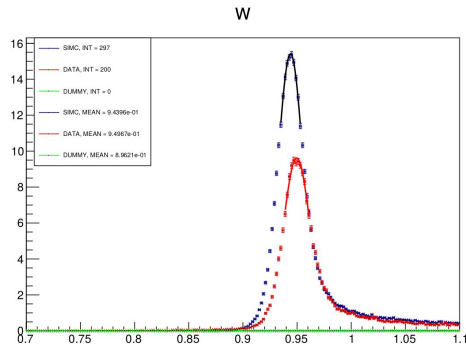
dE -0.05%

dpp -0.7%

dpp -0.5%

dpp -0.3%

dpp -0.1%



dthe 1.0000 mrad dpe -0.0000 %

dthp 0.9000 mrad

dE -0.05%

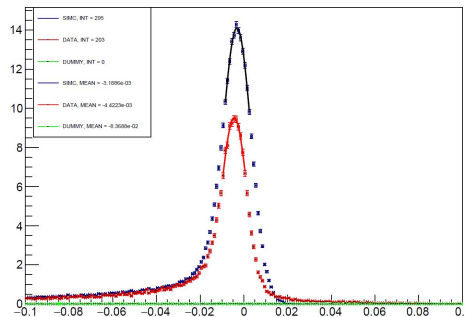
dpp -0.7%

dpp -0.5%

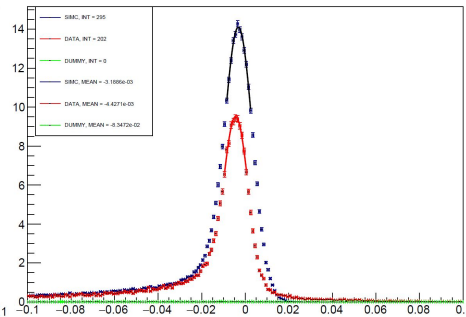
dpp -0.3%

dpp -0.1%

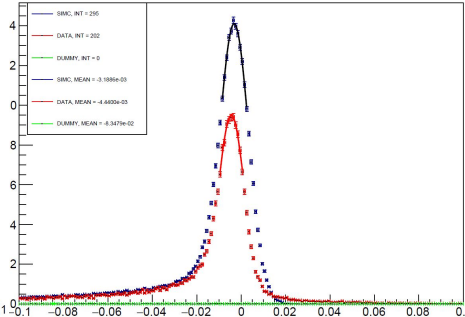
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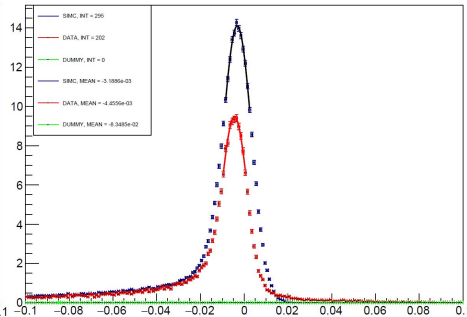
pmx



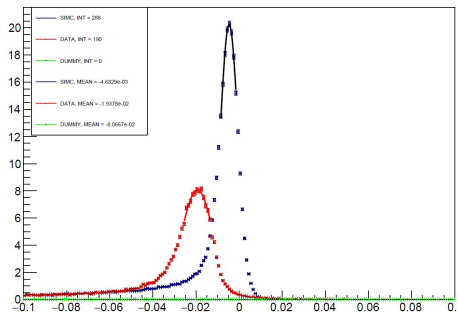
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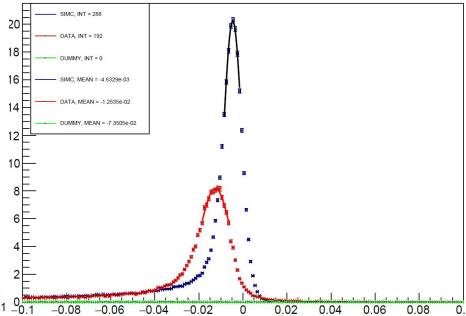
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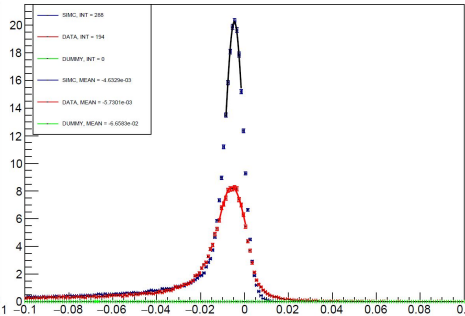
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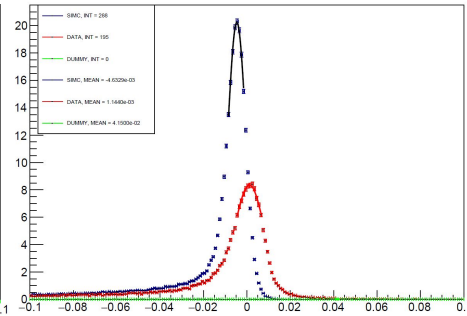
pmz



pmz



pmz



dthe 1.0000 mrad dpe -0.0000 %

dthp 0.9000 mrad

dE -0.05%

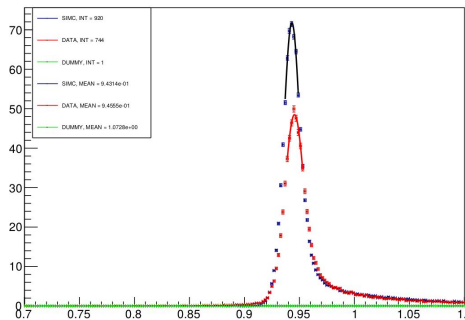
dpp -0.7%

dpp -0.5%

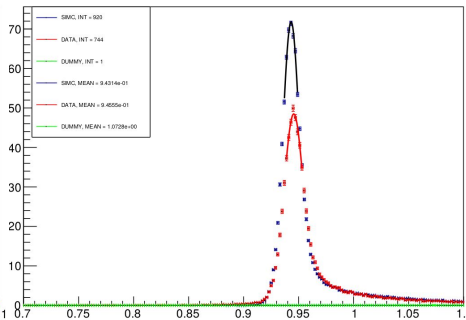
dpp -0.3%

dpp -0.1%

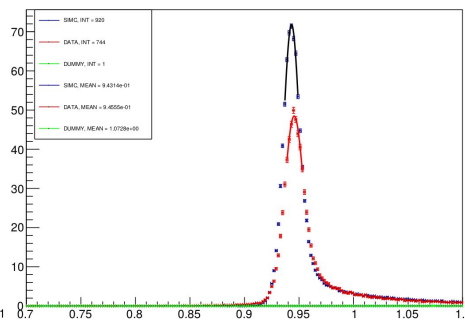
W



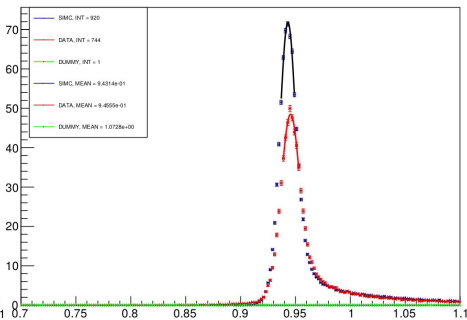
W



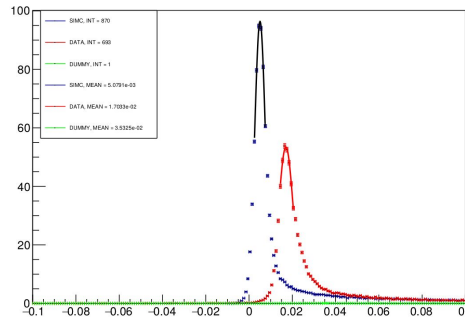
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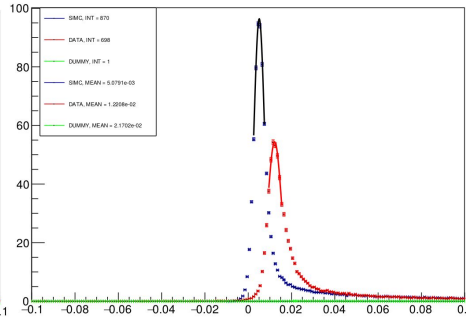
W



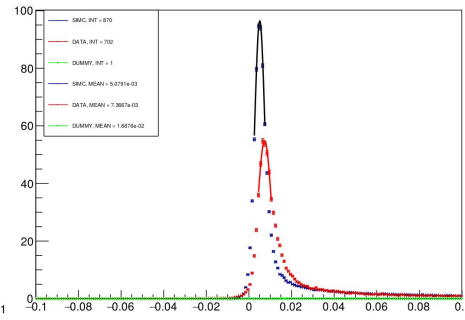
emiss



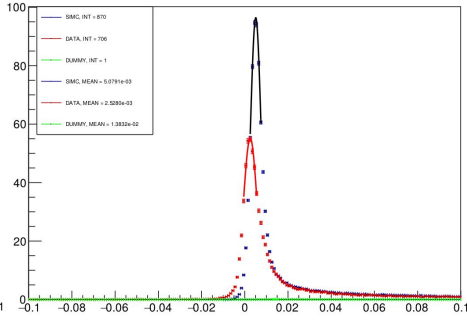
emiss



emiss



emiss



dthe 1.0000 mrad dpe -0.0000 %

dthp 0.9000 mrad

dE -0.05%

dpp -0.7%

dpp -0.5%

dpp -0.3%

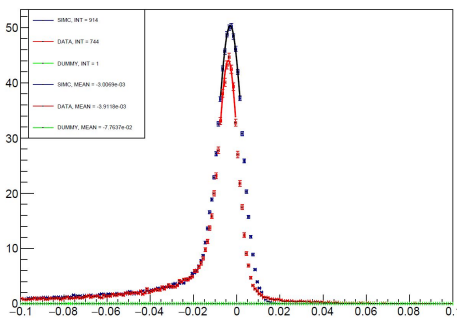
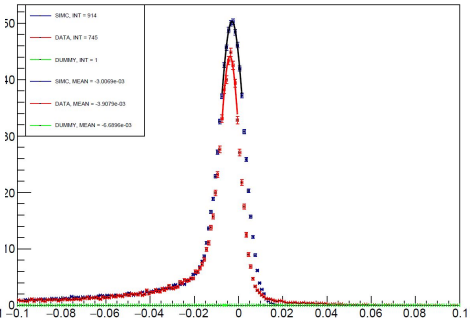
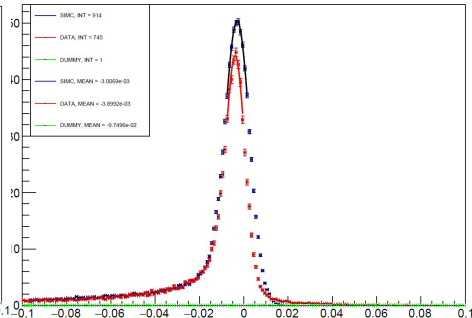
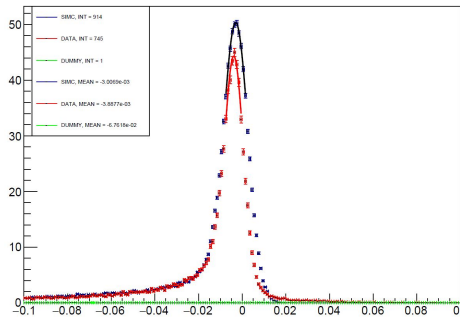
dpp -0.1%

pmx

pmx

pmx

pmx

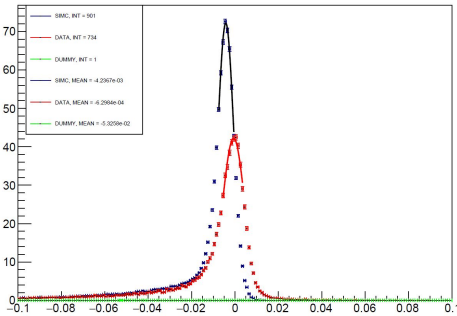
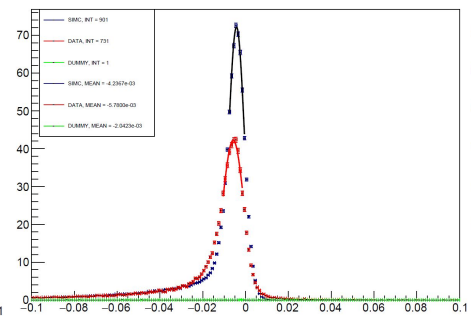
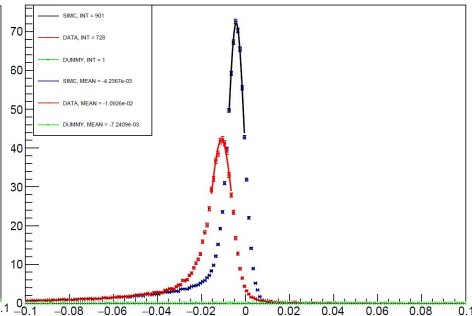
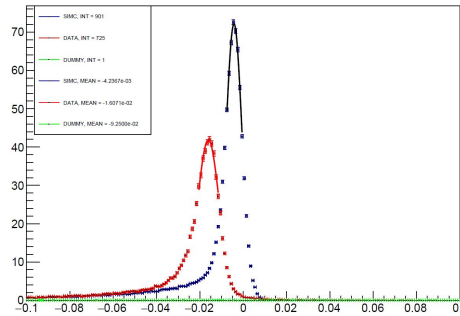


pmz

pmz

pmz

pmz



dthe 1.0000 mrad dpe -0.0000 %

dthp 0.9000 mrad

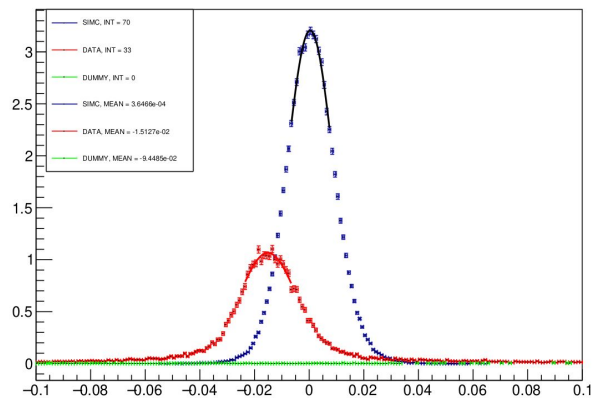
dpp -0.1%

dE -0.03%

dpphi -9.23 mrad

dhphi 10.01 mrad

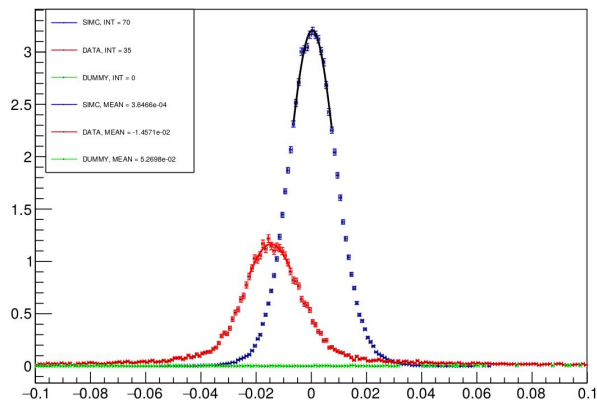
pmy



dpphi 0 mrad

dhphi 0 mrad

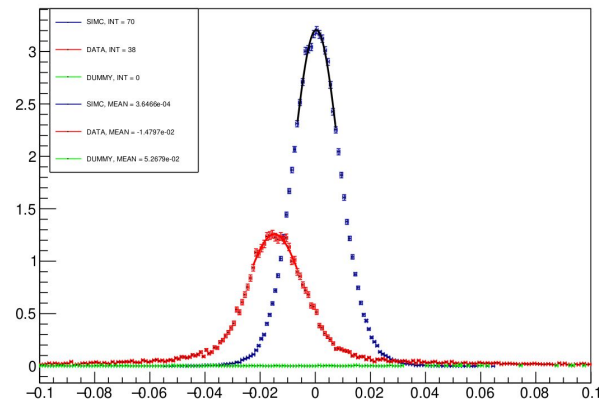
pmy



dpphi -0.11 mrad

dhphi 2.51 mrad

pmy



dthe 1.0000 mrad dpe -0.0000 %

dthp 0.9000 mrad

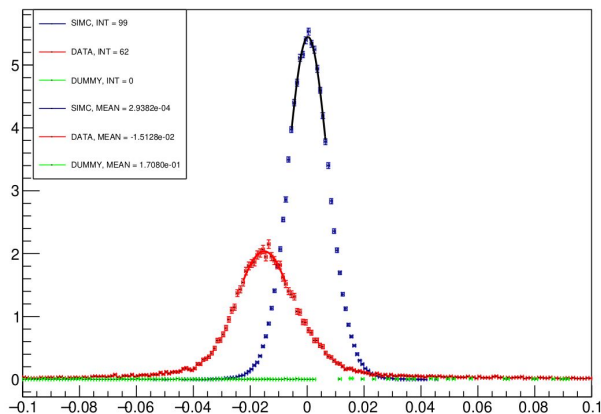
dpp -0.1%

dE -0.02%

dpphi -9.23 mrad

dhphi 10.01 mrad

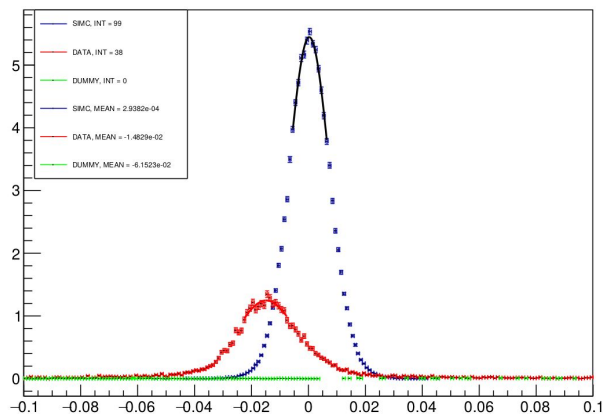
pmy



dpphi 0 mrad

dhphi 0 mrad

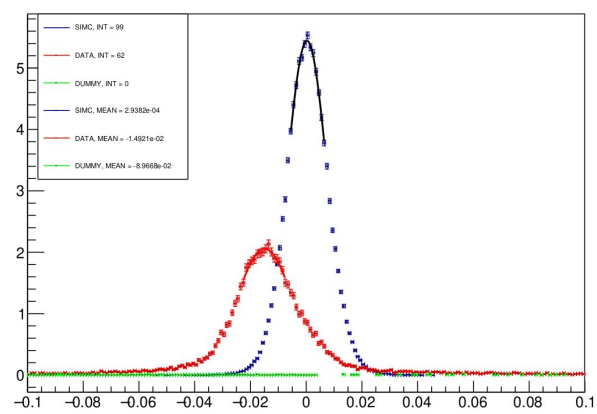
pmy



dpphi -0.11 mrad

dhphi 2.51 mrad

pmy



dthe 1.0000 mrad dpe -0.0000 %

dthp 0.9000 mrad

dpp -0.1%

dE -0.05%

dpphi -9.23 mrad

dhphi 10.01 mrad

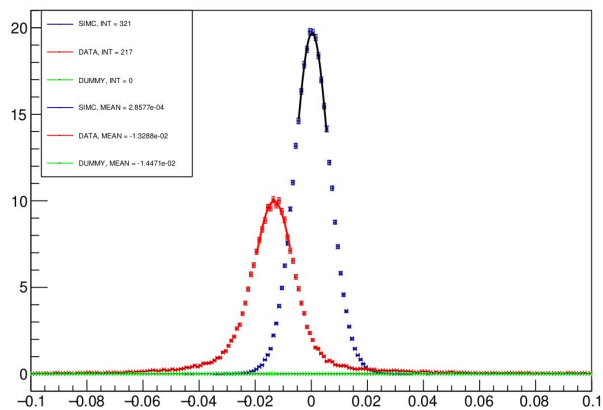
dpphi 0 mrad

dhphi 0 mrad

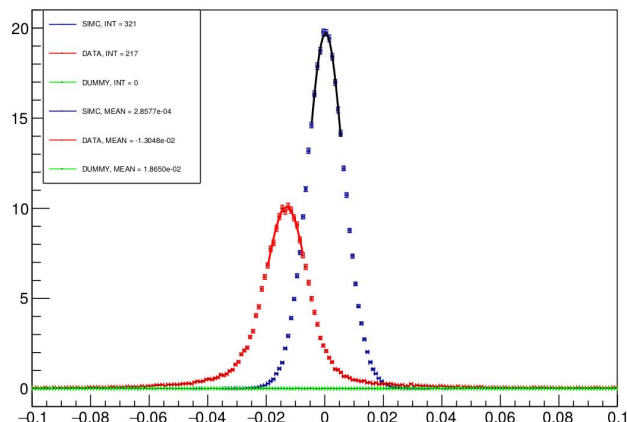
dpphi -0.11 mrad

dhphi 2.51 mrad

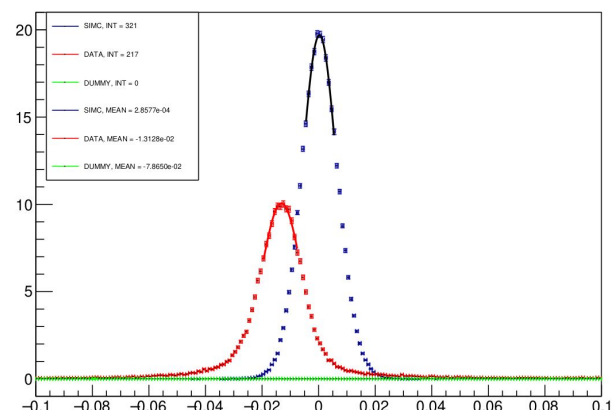
pmy



pmy



pmy



dthe 1.0000 mrad dpe -0.0000 %

dthp 0.9000 mrad

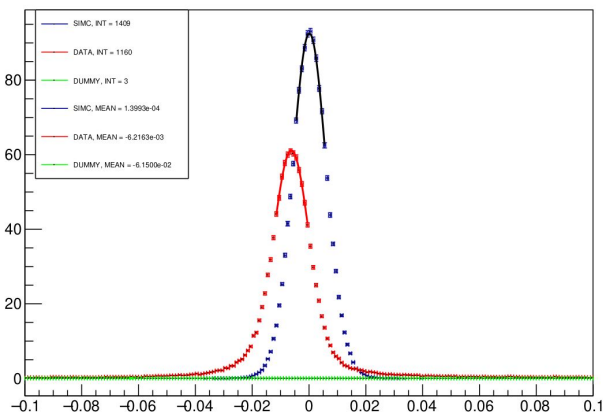
dpp -0.1%

dE -0.05%

dpphi -9.23 mrad

dhphi 10.01 mrad

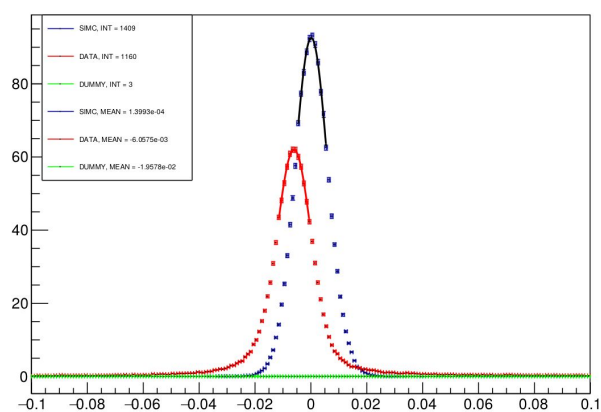
pmy



dpphi 0 mrad

dhphi 0 mrad

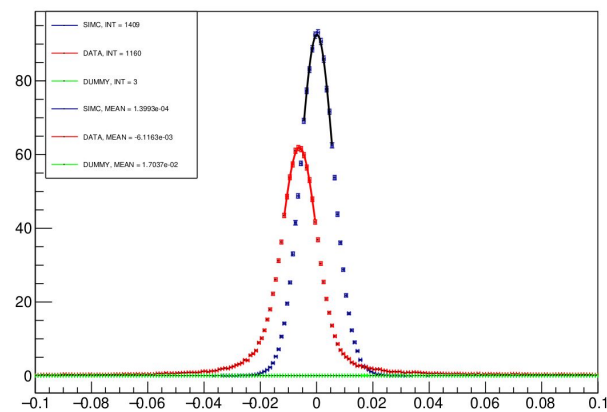
pmy



dpphi -0.11 mrad

dhphi 2.51 mrad

pmy





dthe 1.0000 mrad dpe -0.0000 %

dthp 0.9000 mrad

dpp -0.1%

dE -0.05%

dpphi -9.23 mrad

dhphi 10.01 mrad

dpphi 0 mrad

dhphi 0 mrad

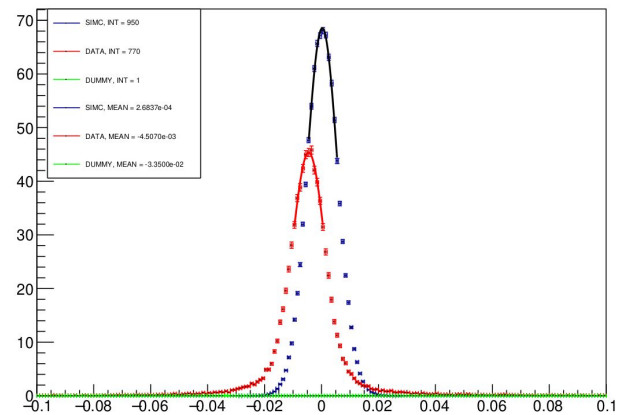
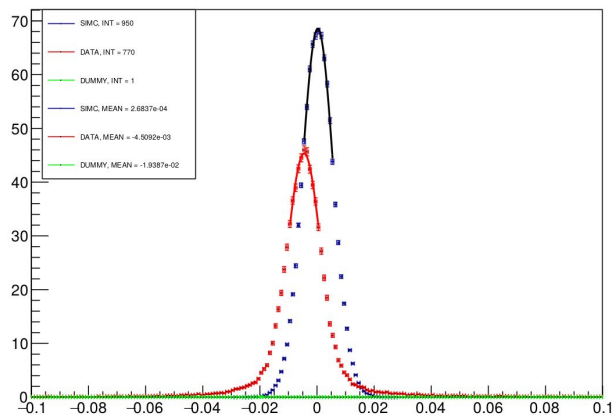
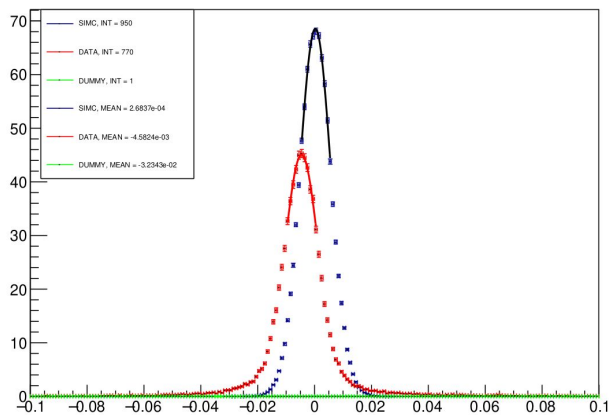
dpphi -0.11 mrad

dhphi 2.51 mrad

pmy

pmy

pmy





Extra

dthe 1.0000 mrad dpe -0.0000 %

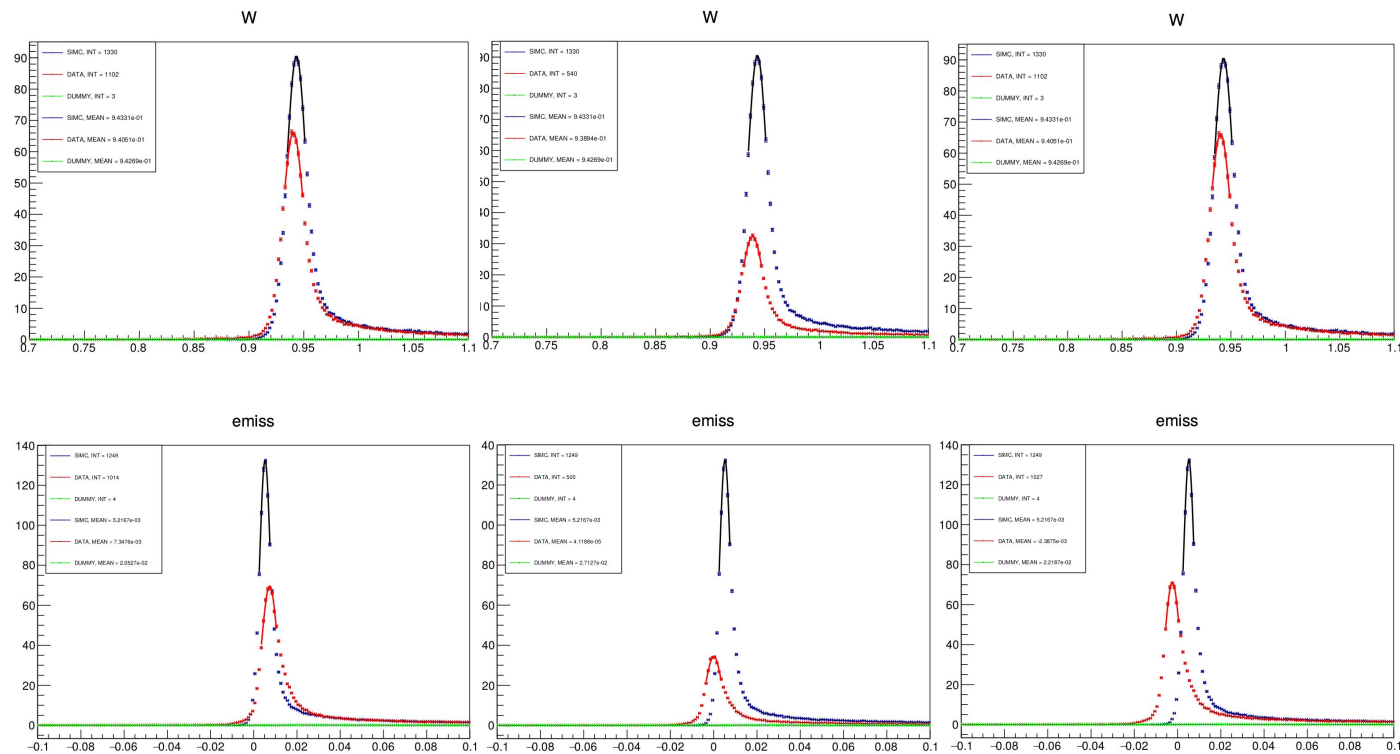
dthp 0.9000 mrad

dE -0.00%

dpp -0.5%

dpp -0.3%

dpp -0.1%



dthe 1.0000 mrad dpe -0.0000 %  
dthp 0.9000 mrad  
dE -0.05%

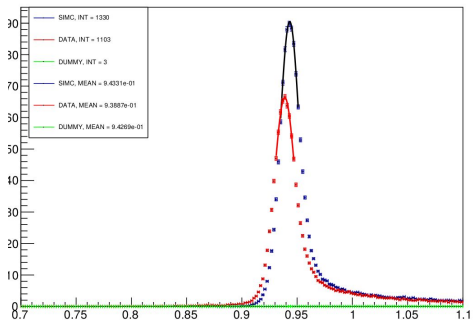
dpp -0.7%

dpp -0.5%

dpp -0.3%

dpp -0.1%

W



\*\*\*\*\*Fix energy

emiss

