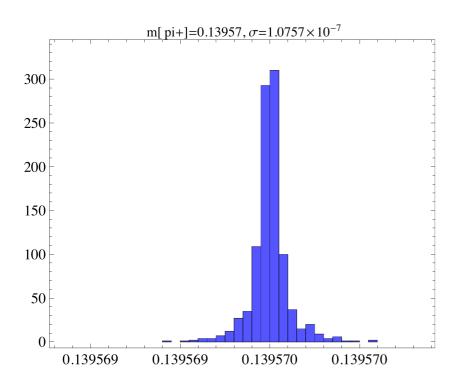
CLAS-g12 data (very preliminary)

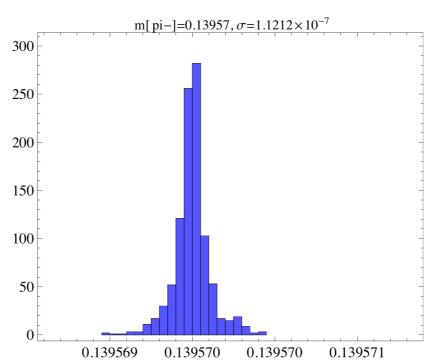
Igor Danilkin, August 23, 2014

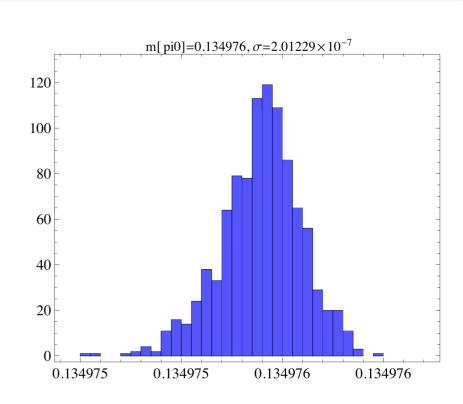
- Data from: Volker Crede
- Reaction: $p \to p \omega \to p \pi^+ \pi^- \pi^0$
- Incoming photon energies: 1600 3000 MeV
- Files: data, reconstructed Monte Carlo, generated Monte Carlo
- 4-vector format: <pi+ 4-vec: Px, Py, Pz, E;>, ...
 incl: Q-value: likelihood for event being signal
- The events cover the (pi+ pi- pi0)-mass range 600 950 MeV
- Total 2,268,907 events resulting in more than 1,000,000 true omega events if weighted with the Q-values

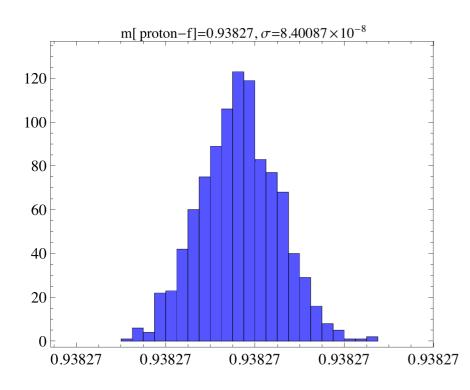
next slides: only first 10,000 events

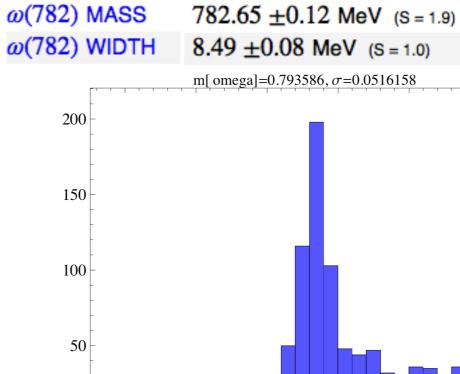
Masses











0.70

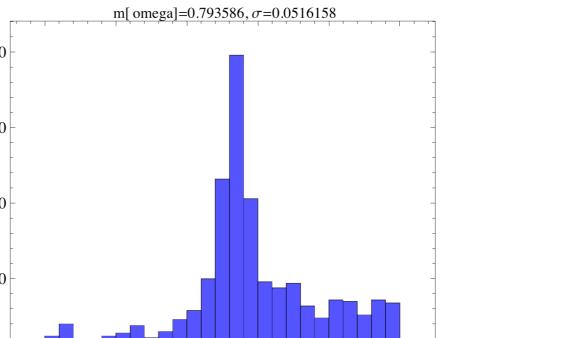
0.65

0.75

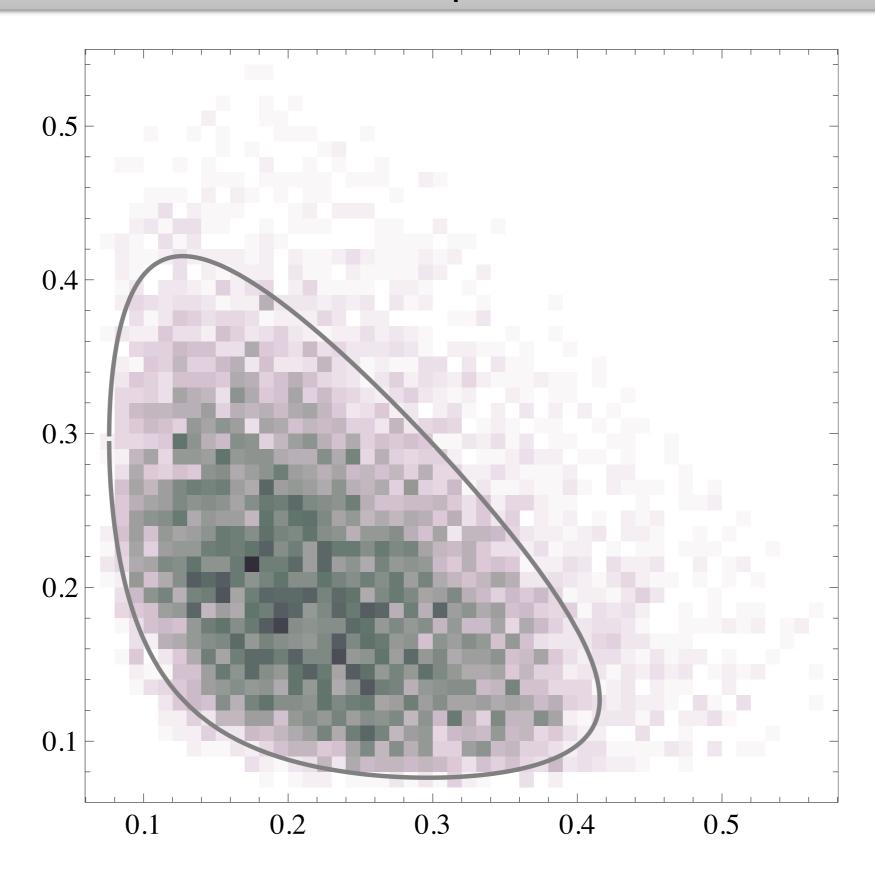
0.80

0.85

0.90

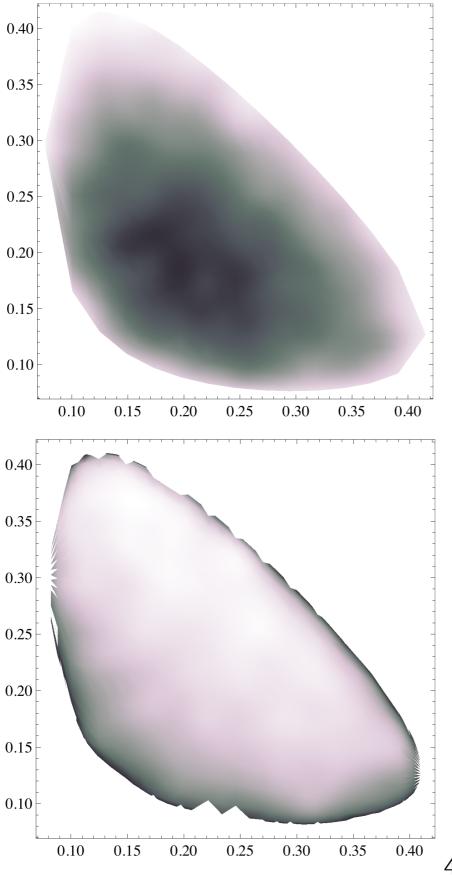


Dalitz plot



Dalitz plot





Theory

