Minutes of the PWA EVO Meeting 18.05.2010

Participants

Fritz-Herbert Heinsius, Bertram Kopf, Matthias Steinke, (Bochum); Klaus Götzen (GSI); Mathias Michel (Mainz);

General

We agreed upon to start the next bi-weekly EVO meetings 30 minutes later, i.e. every second Tuesday at 14h00.
A decision on the name of the PWA software has not been taken so far. Up to now 6 proposals have been made. We will start a poll in the GSI forum by end of this week. This would still give everyone the opportunity to come forward with further proposals.

Status reports of the recent activities

- The official git-repository is already set up. One has to use the ssh protocol and the user name 'gitosis' for the access to the repository. In addition each developer has to send the public part of the ssh key pair to Matthias. Matthias will write a more detailed description on the PWA wiki.

- The software contains now an error logger and utility classes for the handling of asymmetric errors. Moreover the data structure of the particle class has been extended.

  A new test application is also available which performs a very simple PWA fit. This application makes use of the MINUIT2 package as well as of the qft++ tool and calculates the amplitude in the Covariant Tensor Formalism.

- A simple *HOWTO* ('First Step Instructions') has been written on the PWA wiki. This documentation briefly summarizes the first steps on how to install and compile the PANDA PWA software and how to run the very first test applications.

Software design and upcoming tasks

Two specific aspects on the software design have been discussed in more detail:

- Abstract interface to the minimizer: Mathias already started to get familiar with the Geneva and MINUIT2 package. He also contacted Rüdiger Berlich who is willing to help us in this regard.

- Event class and event reader: There was a discussion about the features of the event class. This class should mainly act as a data structure containing the 4-vectors of the final state particles and information about the initial state. Probabilities for the particle ID as well as the quality for the event hypothesis are also additional information which might be useful for specific PWA fits.

  The Bochum group will take care of the event reader. It will be realized in an abstract way so that different kinds of input files can be easily handled. The idea is to support ASCII files with different grammars, root files and possibly even specific XML languages.

Next meeting

The next PWA EVO meeting will take place on June 1st, 2010 at 14h00.