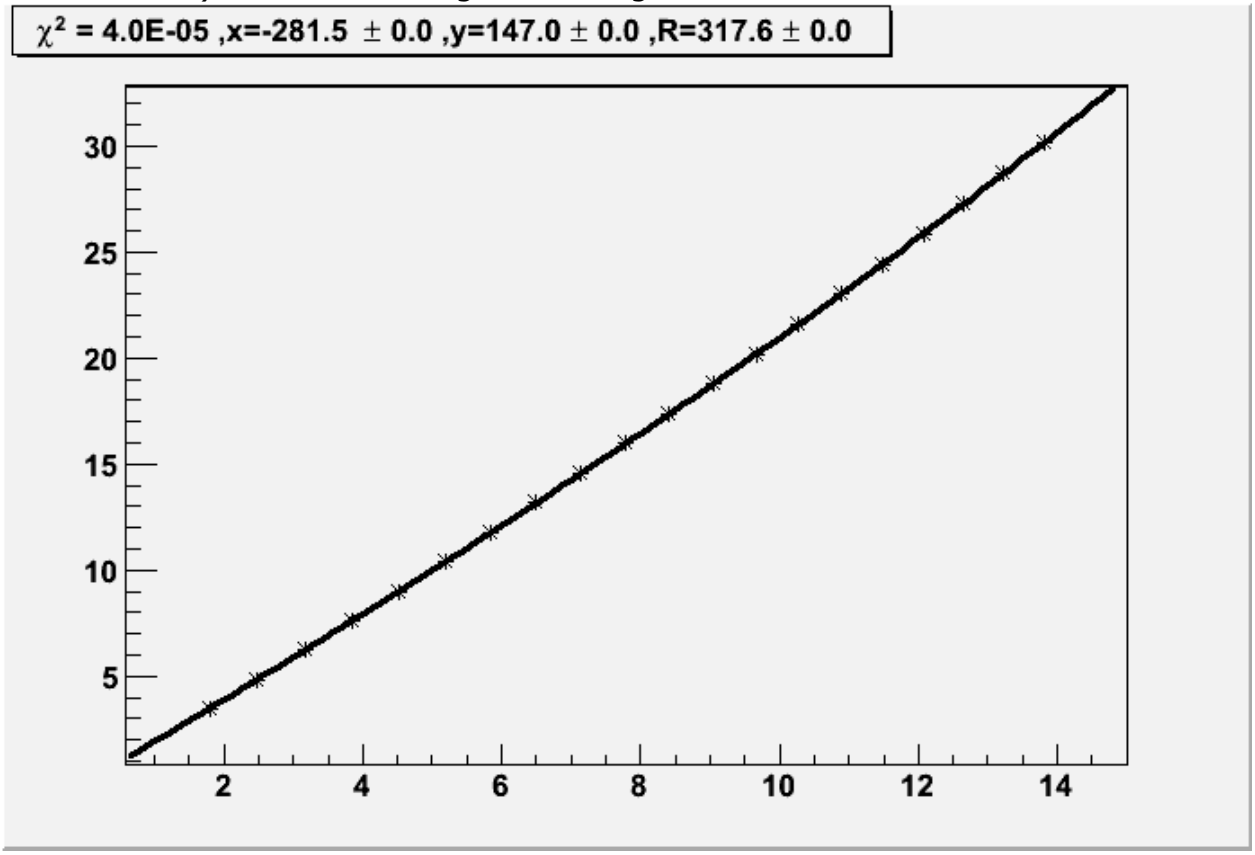
Subject: [Solid] Neutron update for meeting
From: Lorenzo Zana <zana@jlab.org>
Date: 07/06/2011 01:34 PM
To: solid@jlab.org

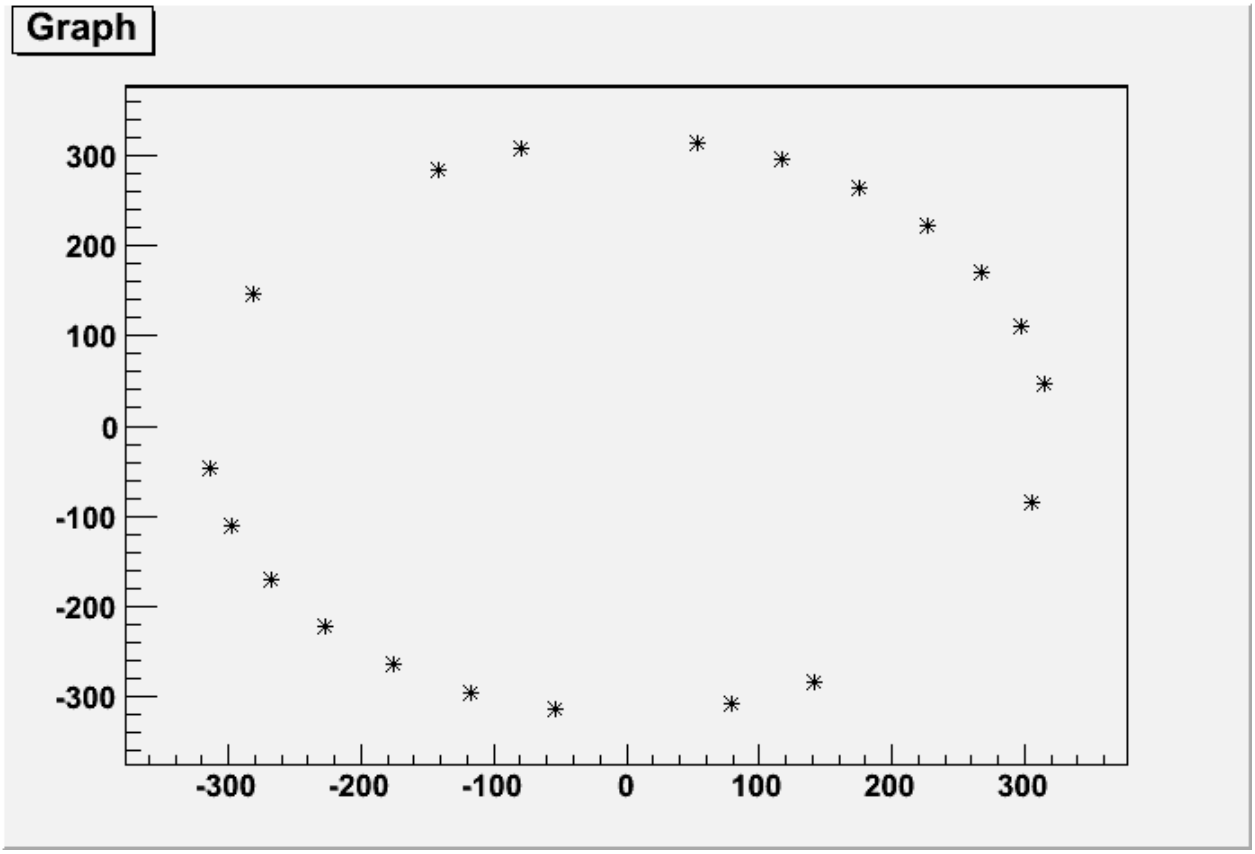
Hi,

I am trying to simply the design for the Baffles in the SOLID magnet for PVDIS to have it as input in FLUKA.
My strategy is taking the current design with gemc and converting the perl script to give, other than the output for the database (gemc), to have the input geometry fro FLUKA.

- GEMC has for the baffles , six different plates, characterized by different number of slits. Each slits is built has the superposition of 30 different blocks. Transfer directly this design into FLUKA gives problem
- For this, I am plotting each block that create a slit as a function of X and Y (where Z is the beam axis). Then I am fitting the the edges of this blocks with a circle



This gives me the dimension characterizing each slit
The centers of these slits should compose for each plate, a circle



where I drop the fit that have some problem.

The fact that should make a circle (I think) would give me a good way to check if the design that I will get is comparable to the original design (gemc).

Lorenzo

Attachments:

Part 1.2 130 bytes