



Geant 4

Generator & Analyzer

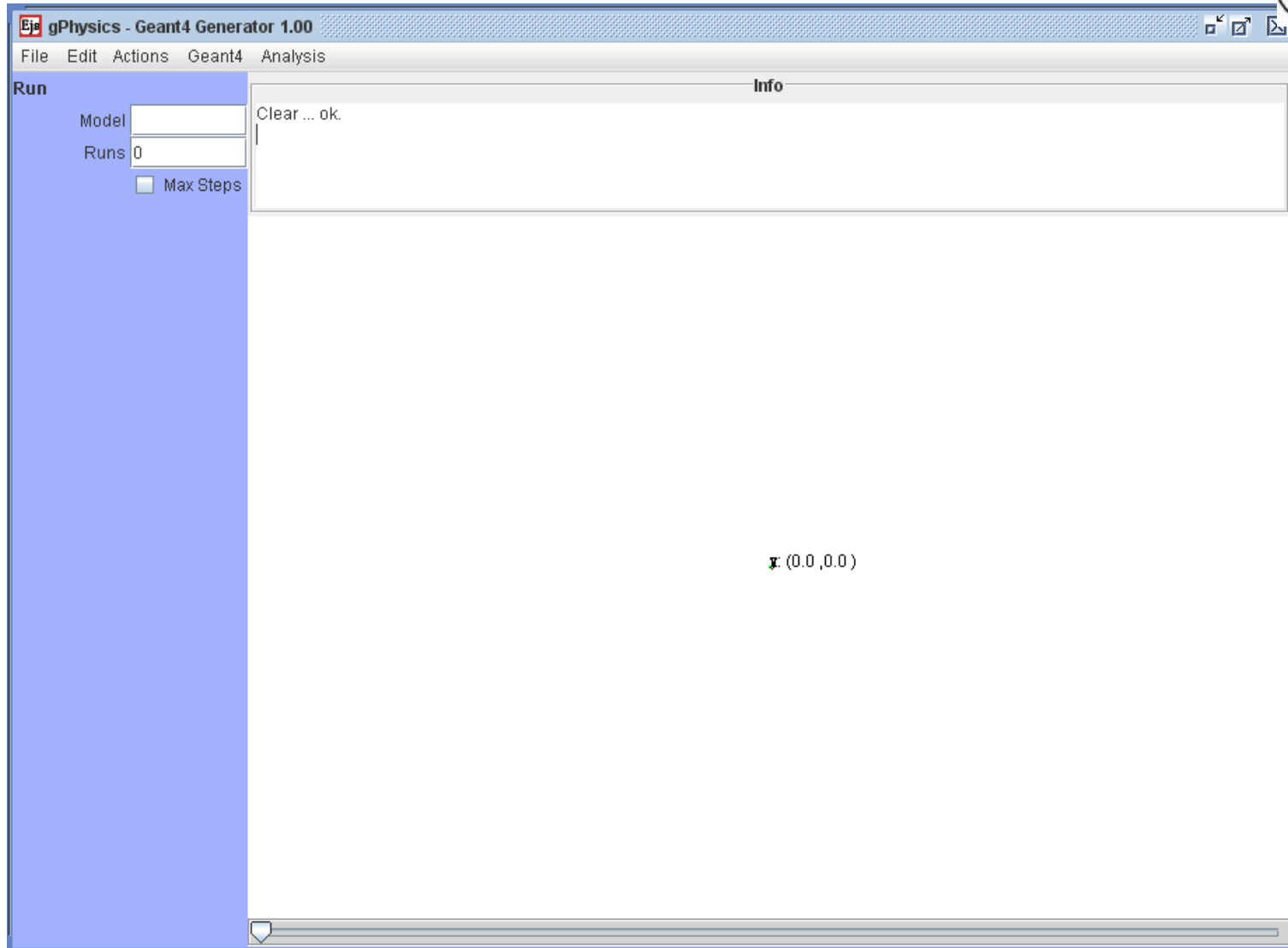
Dr. Willy H. Gerber
Instituto de Fisica
Universidad Austral
Valdivia, Chile

Cargar Datos



Cargar Datos

Ejecutar el Programa

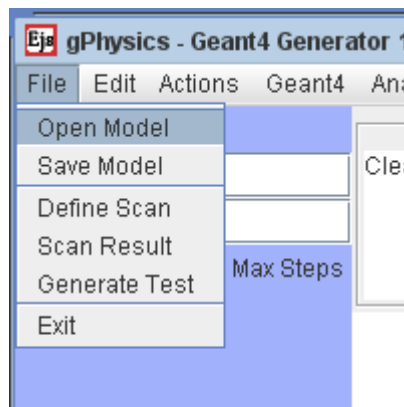


Ejecutar el Programa

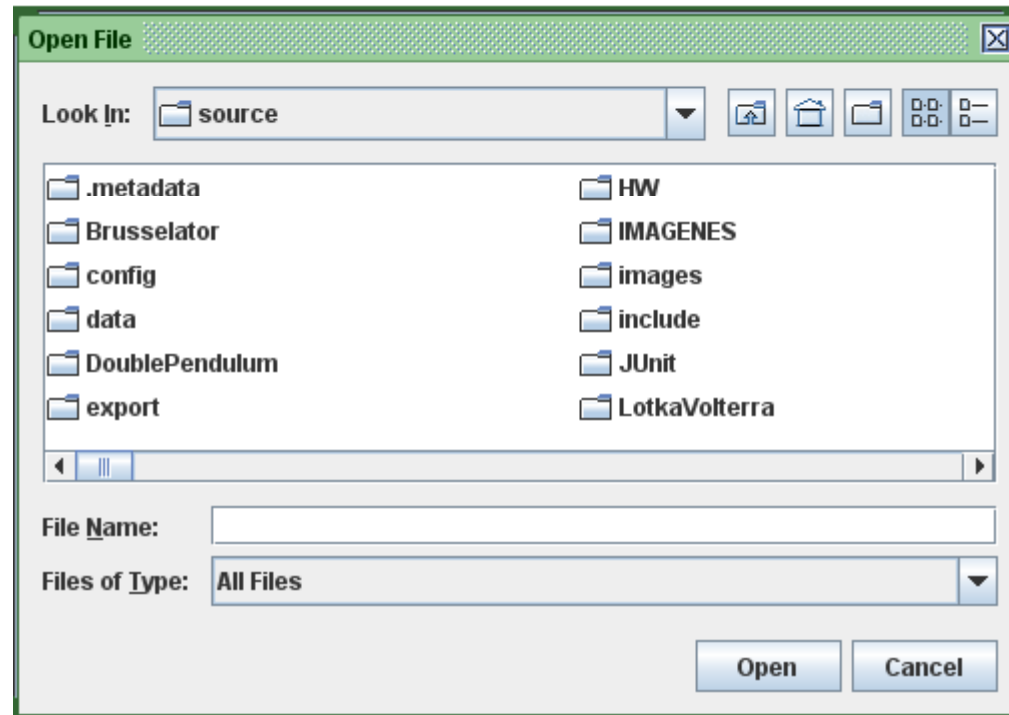


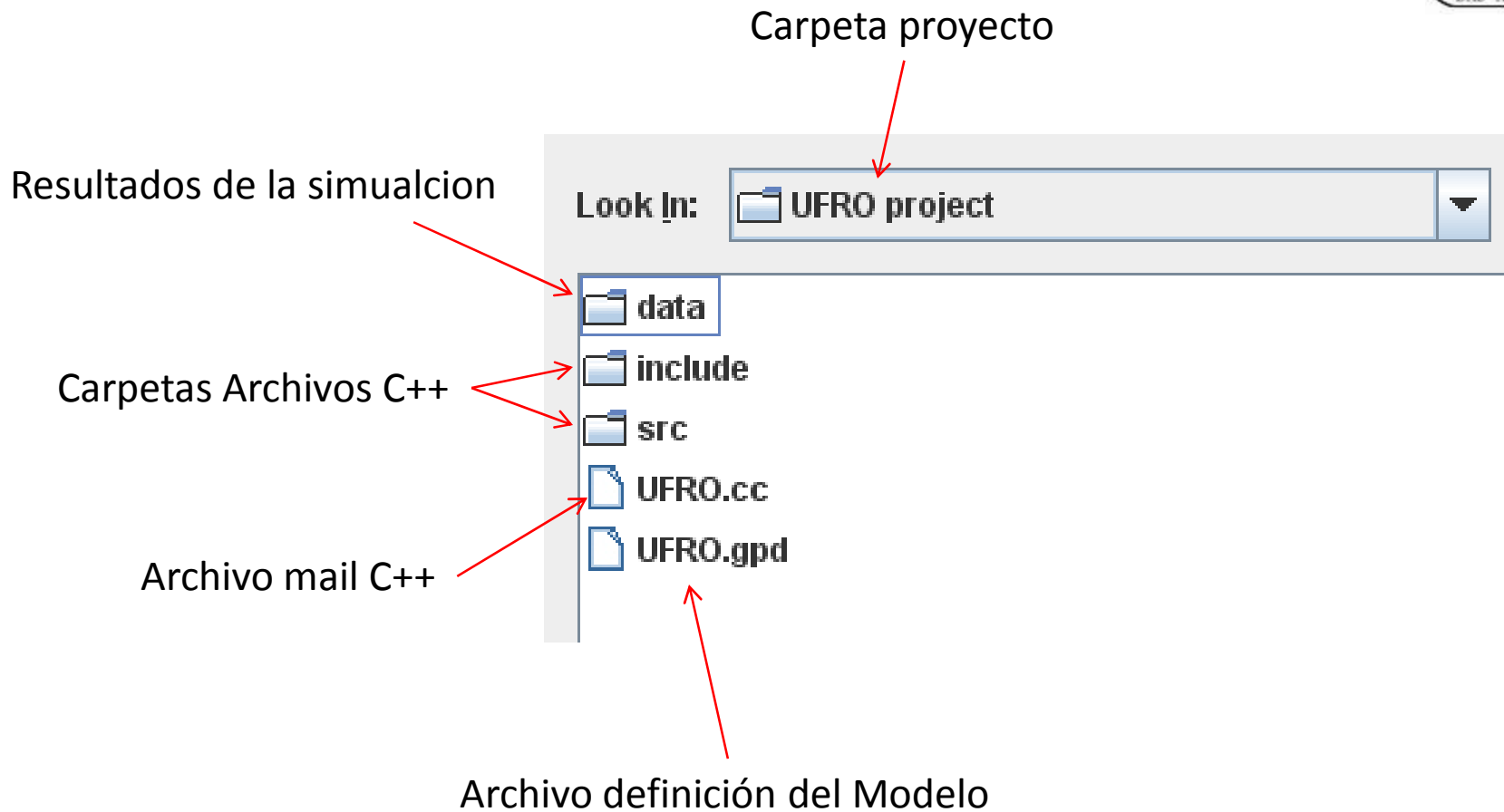
Seleccionar Modelo:

1. Seleccionar File y luego Open Model

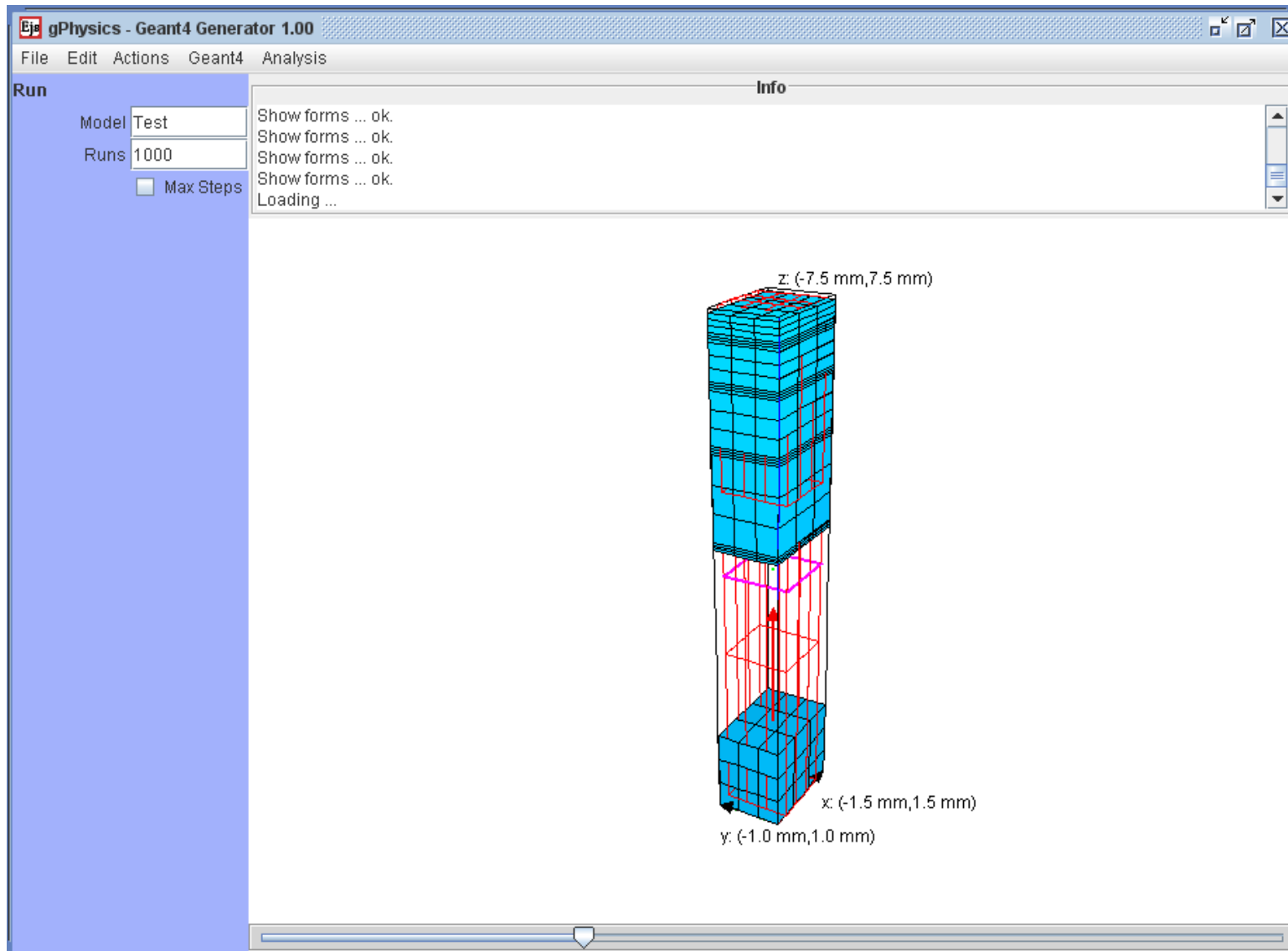


2. Seleccionar archivo





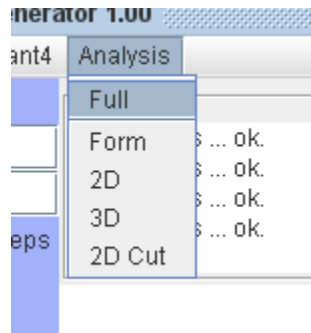
Datos cargados





Análisis

Selección de despliegue



Despliegue de todos los modos (o en forma individual)

The screenshot shows the gPhysics - Geant4 Generator 1.00 interface. At the top, a menu is open with the following options: Full, Form, 2D, 3D, and 2D Cut. The main window displays four visualization modes:

- Form:** A 3D wireframe model of a detector structure. A red arrow points to the 'Data Files' dropdown menu, labeled 'Selección de datos'. Below the model, the coordinates are given as x: (-1.5 mm, 1.5 mm) and y: (-1.0 mm, 1.0 mm).
- 3D:** A 3D bar chart visualization of the detector structure, showing a dense array of yellow bars.
- 2D:** A 2D heatmap visualization of the detector structure, showing a grid of colored squares. The axes are labeled x [m] and y [m], both ranging from -1.5 to 1.5. A scale factor of $\times 10^{-3}$ is indicated. A text box above the heatmap says 'Drop image files here to open them'.
- 2D Cut:** A 2D line plot showing a cross-section of the detector structure. The x-axis ranges from 0 to 0.10, and the y-axis ranges from -0.8 to 0.4. A red line represents the data, and a red arrow points to the '2D Cut' label.



Cada set de datos se consulta en forma individual

The screenshot shows a software interface with a 'Data Files' list on the left and a file explorer on the right. The 'Data Files' list contains the following items:

- (Select data file)
- (Select data file)
- UFRO_map_compt_energy.gpd
- UFRO_map_compt_number.gpd
- UFRO_map_e-_particle.gpd
- UFRO_map_eBrem_energy.gpd
- UFRO_map_eBrem_number.gpd
- UFRO_map_eIoni_energy.gpd
- UFRO_map_eIoni_number.gpd

The file explorer on the right shows a list of files with icons. Red arrows point from the 'Data Files' list to the corresponding files in the explorer:

- UFRO_map_compt_energy.gpd
- UFRO_map_compt_number.gpd
- UFRO_map_e-_particle.gpd
- UFRO_map_eBrem_energy.gpd
- UFRO_map_eBrem_number.gpd
- UFRO_map_eIoni_energy.gpd
- UFRO_map_eIoni_number.gpd
- UFRO_map_gamma_particle.gpd
- UFRO_map_msc_energy.gpd
- UFRO_map_msc_number.gpd
- UFRO_map_phot_energy.gpd
- UFRO_map_phot_number.gpd
- UFRO_map_Transportation_energy.gpd
- UFRO_map_Transportation_number.gpd

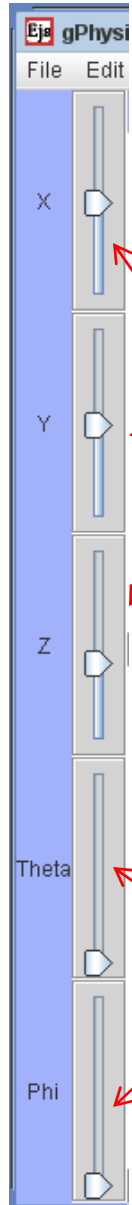
Tipos de datos

- Numero de eventos**
(_number)
- Energía en el evento**
(_energy)
- Concentración de partículas**
(_particle)

Plano de Evaluacion

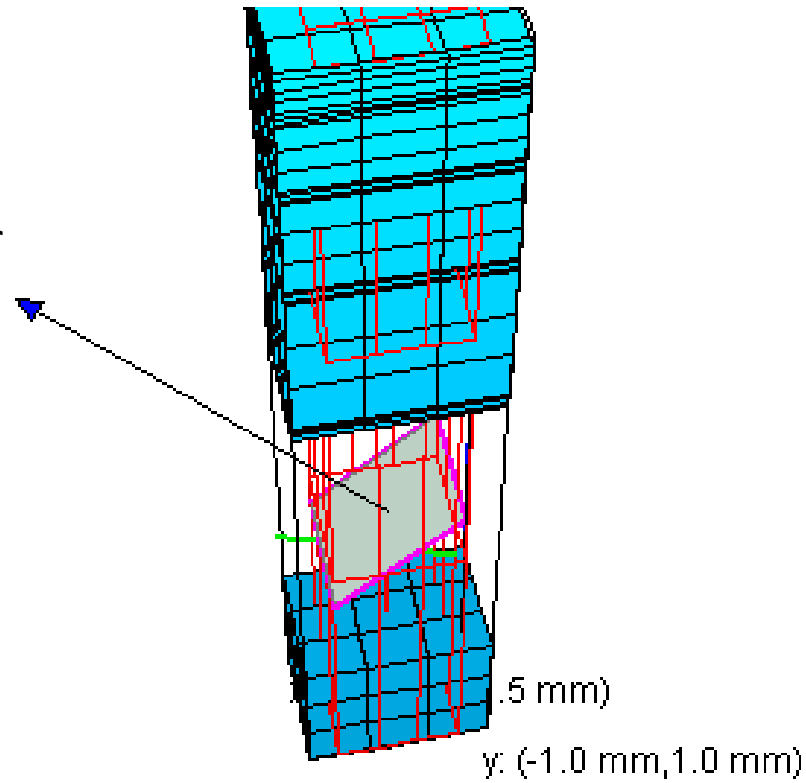


Movimiento del plano de análisis:



Desplazar

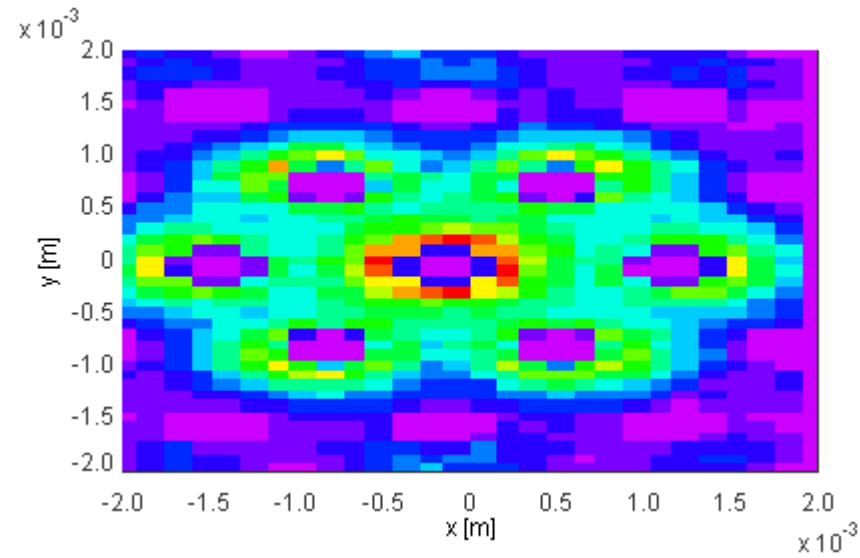
Inclinar



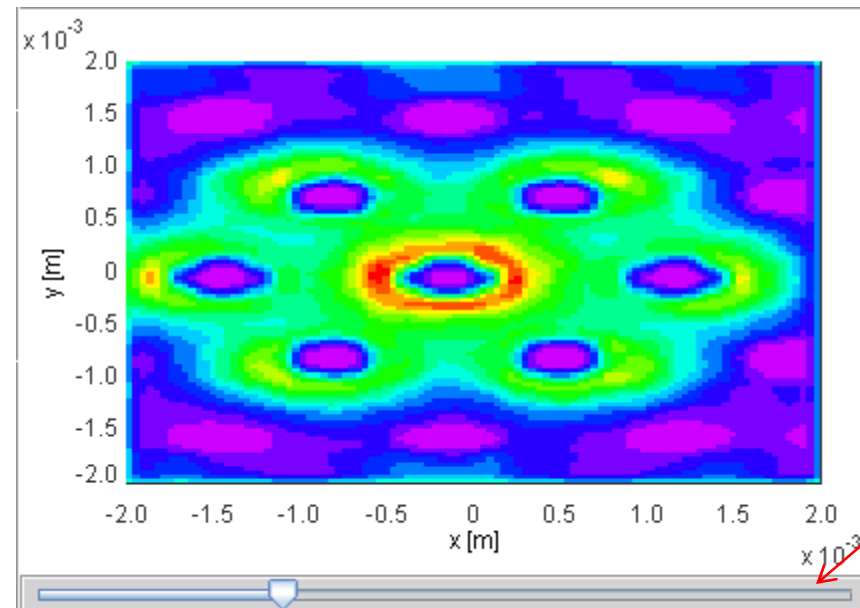
Visión 2D



Perfil 2D
(en este caso
Interaccion de
Fotones)



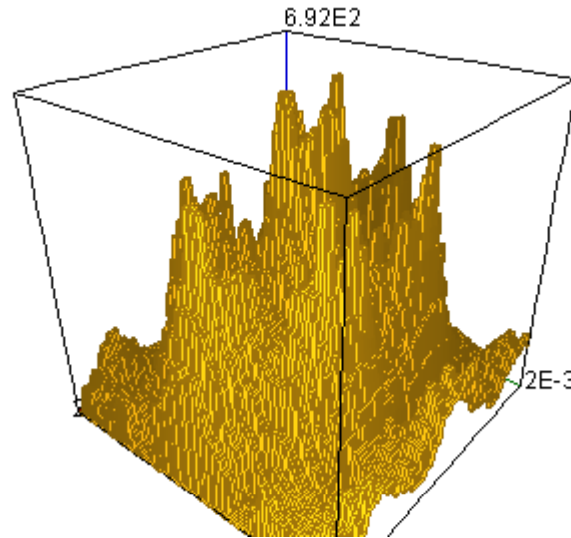
Perfil 2D
"suavizado"



Barra para suavizar

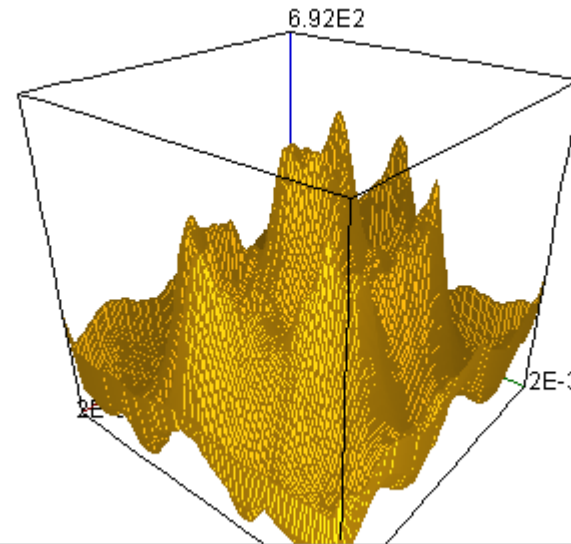


Perfil 3D
(en este caso
Interaccion de
Fotones)



La grafica se
puede girar con
el mouse

Perfil 3D
"suavizado"

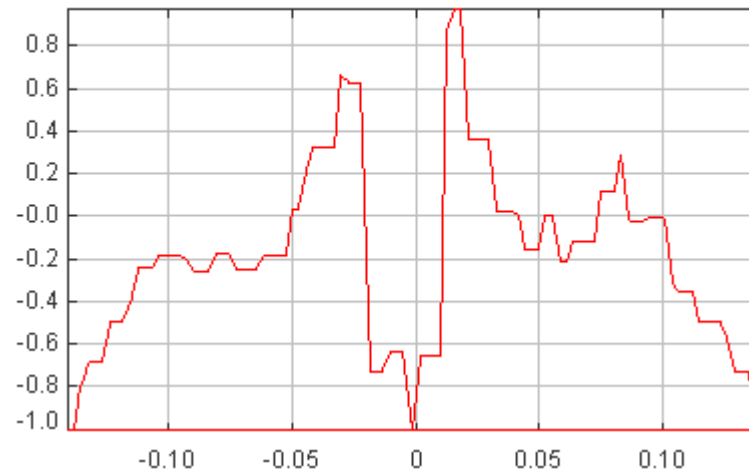


Barra para suavizar

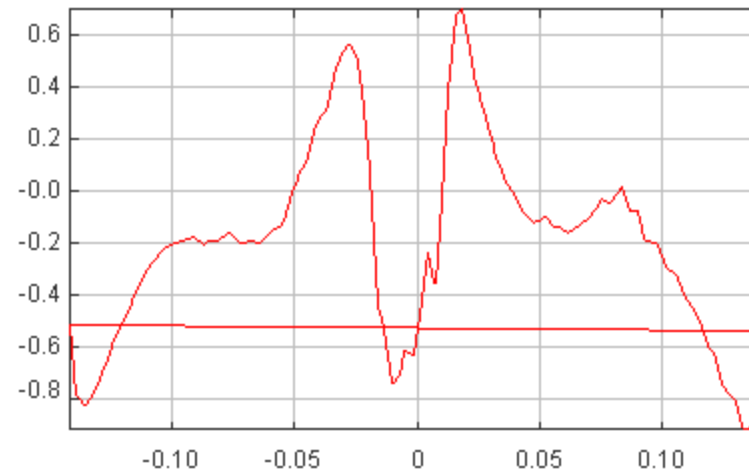




Perfil 2D Cut
(en este caso
Interaccion de
Fotones)



Perfil 2D Cut
"suavizado"



Para girar plano

