Title:	GEM Simulation in Garfield++.
Authors:	Meher, Roshan Kumar.
Keywords:	GEM Simulation. Simulation in Garfield++. GEM foil GEM .
Issue Date:	May-2024
Publisher:	IISER Mohali
Citation:	Dr. Vishal Bhardwaj.
Abstract:	Particle detectors are the backbone of the Nuclear and Particle physics. It is used to detect, quantify and identify the particles. Among those various types of detectors gas detectors have also a important role. To enhance the efficiency of gas detectors by ampli- fying the signal, GEM(Gaseous Electron Multiplier) was introduced by Fabio Sauli. Later on to increase the rapidness and to reduce the resource use and time, detector simulation was introduced. Here, in this project an attempt has been made to construct a simulation of GEM using Garfield++ and other open-source finite element electrostatics. Garfield is frame work of simulation. It along with other software provides the perfect environment. This main motive of this project is to learn and study about the detector simulation and to develop a GEM simulation considering as much parameters possible.
URI:	http://hdl.handle.net/123456789/5753
Appears in Collections:	MS-19

Files in This Item:

File	Description	Size	Format	
Under Embargo period.odt		9.72 kB	OpenDocument Text	View/Open

Show full item record