

NOvA Break Point Fitter - Task #16292

Benchmark data / MC with stopping muons

04/21/2017 08:20 PM - Mark Messier

Status:	New	Start date:	04/21/2017
Priority:	Low	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Description			
I would like to see a study where many stopping muons at the FD are selected spread over a wide range of angles. Fit them, feed the kinematics into the MC and fit again. Then look at distributions of position χ^2 , scattering χ^2 , dE_{dx} and see how well the data and MC match. Could in principle be repeated at the ND.			

History

#1 - 07/26/2017 09:07 AM - Mark Messier

I've been working with a student on this. Will give update soon, but we have a module that creates a "Cosmic ray vertex" (point on wall at highest y based on Window Tracker) which can be used to seed clustering and BPF. We've also exercised a set of modules with find and fit stopped muons and then inputs those kinematics directly to the MC.