

QSS - Task #10420

Calculate accumulated errors inside Geant4

10/08/2015 12:13 PM - Nicolas Ponieman

Status:	Closed	Start date:	10/08/2015
Priority:	Normal	Due date:	10/09/2015
Assignee:	Nicolas Ponieman	% Done:	100%
Category:		Estimated time:	4.00 hours
Target version:			
Description			
<ul style="list-style-type: none">Up to now, we are already calculating the individual error at each point inside Geant4. * This task consists on calculating the accumulated errors (r_error and $\max(x_error)$) inside Geant4. * To calculate r_error, which includes an averaging of a large number of possibly small number, take into account the following algorithm (which is also described in Knuth's books) in order to avoid numerical errors: http://stackoverflow.com/questions/28820904/how-to-efficiently-compute-average-on-the-fly-moving-average * Also, the accumulated errors should be printed to output when different distances are covered by the particle. This should probably be hardcoded for the moment.			

History

#1 - 10/13/2015 11:15 AM - Nicolas Ponieman

- Status changed from New to Resolved

- % Done changed from 0 to 100

#2 - 12/04/2015 02:29 PM - Krzysztof Genser

- Status changed from Resolved to Closed