Subject: Errors in SttHi
Posted by Tobias Stockmanns on Wed, 19 Jun 2013 13:05:33 GMT

Dear STT code developers,

I had a look into the hit errors stored in the STTHit.

The x,y,z coordinates given in the SttHit are the wire mid-position. The error given for them is 0.5 in x and y while in z it is 3 cm. In my opinion the error should be 1 / Sqrt(12) for x,y and tube length / Sqrt(12) for the z coordinate. Can you please check this?

When looking at the isochrones, these values are still given as a radius in cm with an error in cm. For the time-based simulations it is necessary to have a method to translate the stored time stamp (or time pulse) into a radius including error by giving the event time with error.

Cheers,

Tobias