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Subject: Coordinate system for hit parameters  
Posted by [Volker Frieze](#) on Fri, 02 Mar 2012 19:26:55 GMT  
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On 02.03.2012 at 15:03 wrote Andrey Lebedev:

Quote:

Dear Colleagues,

we have recently some discussions about which coordinate system to use to store hit information.

With this mail I want to start a further discussion on this topic.

Currently, hit position and corresponding errors are stored in global coordinate system (in a plane which is perpendicular to beam direction). However, introducing rotated outer planes in TRD we have to define how to store hit information, namely, in which coordinate system.

In order to be consistent with current definitions, I would say that we have to stick to global coordinate system. This would be also easier for tracking to have all hits in the same coordinate system. However, hit producers has to be modified and implement rotation of the hit coordinates and errors.

Best regards,  
Andrey