Subject: KalmanFit Error
Posted by Tobias Stockmanns on Fri, 09 Nov 2007 08:59:47 GMT
View Forum Message <> Reply to Message

Dear KalmaFitters,

when I try to fit MVD data with the Kalman task, I get the error, that (most of) my matrices are zero, which I do not understand.

Maybe one of you can help me

Thanks

Tobias

MvdKalmanTask::Exec
starting track0
 -I- MvdRecoHit::MvdRecoHit(MvdHit*) called.
o: 0.287864 2.69613 5.975
u: 0.707107 -0.707107 0
v: 0.707107 0.707107 0
 -I- MvdRecoHit::MvdRecoHit(MvdHit*) called.
o: 2.11 1.67845 8.735
u: 0 1 0
v: 1 0 0
 -I- MvdRecoHit::MvdRecoHit(MvdHit*) called.
o: 2.20361 1.60633 14.3662
u: 0.00398854 -0.999595 0.0281843
v: 0.999992 0.00399013 0
 -I- MvdRecoHit::MvdRecoHit(MvdHit*) called.
o: 4.63742 3.15743 18.475
u: -0.729407 0.68408 0
v: 0.68408 0.729407 0
4 hits in track 0
starting fit
Error in <TDecompLU::DecomposeLUCrout>: matrix is singular
Error in <TDecompLU::InvertLU>: matrix is singular, 0 diag elements < tolerance of 2.2204e-16
FitterException thrown with whatString:
cannot invert covsum in Kalman Gain - det=0
in line: 265 in file: /home/stockman/fairroot/cbmsoft_old/pandaroot/genfit/Kalman.cxx
FitterException Info Output
==========

Matrices Label String:
cov, HitCov, covsum1 and covsum

Matrices:

5x5 matrix is as follows

| 0 | 1 | 2 | 3 | 4 |

0	0	0	0	0	0
1	0	0	0	0	0
2	0	0	0	0	0
3	0	0	0	0	0
4	0	0	0	0	0

3x3 matrix is as follows

	0	1	2
0	0.002887	0	0
1	0	0.002887	0
2	0	0	0

5x3 matrix is as follows

	0	1	2
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0

3x3 matrix is as follows

	0	1	2
0	0.002887	0	0
1	0	0.002887	0
2	0	0	0

==========