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Subject: Updated version of CbmGeanePro  
Posted by [Lia Lavezzi](#) on Fri, 30 May 2008 15:44:28 GMT  
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Hi!

We just uploaded to the svn repository an updated version of CbmGeanePro, where two bugs have been fixed:

1) in the case of propagation to the point of closest approach to a space point now we set:  $v_{wi} = \text{point}$  ( $v_{wi} = \text{space point itself}$ ). Previously the  $v_{wi}$  was not filled and so when calculating one of the two axes to define the virtual detector plane with:

```
// find plane
```

```
// unitary vector along distance
```

```
// vpf on track, vwi on wire
```

```
TVector3 fromwiretoextr = vpf - vwi;
```

```
fromwiretoextr.SetMag(1.);
```

the result was not correct. Now the first axis is the line where both the space point and the point of closest approach to it lie.

2) In the case when only two steps are performed during the PCA finding the procedure used to give a wrong result, because the FindPCA didn't take this case into account properly. Now this bug has been fixed and the function works fine.

In case of problems using this new CbmGeanePro please let us know!

Regards,  
Lia and Susanna.