

## MAUS - Bug #1626

### Overall Pattern Recognition Chi-Squared is negative.

18 February 2015 10:45 - Hunt, Christopher

<b>Status:</b>	Open	<b>Start date:</b>	18 February 2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Hunt, Christopher	<b>% Done:</b>	0%
<b>Category:</b>	Tracker	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Future MAUS release		
<b>Workflow:</b>	New Issue		

#### Description

The extracted values of chi-squared for 'SciFiHelicalTrack's are negative.

It seems PatRec sets the value to -1.0 on creation and doesn't update the property to the correct value.

The values of chi-squared for the circle and lines fits are correct.

#### History

##### #1 - 18 February 2015 10:46 - Hunt, Christopher

I'm looking at this at the moment so I will just fix it so that the global chi-squared is the sum in quadrature of the component chi-squareds.

##### #2 - 18 February 2015 12:43 - Dobbs, Adam

- *Category set to Tracker*

- *Target version set to Future MAUS release*

Yes, this is expected behaviour. The full chisq is to be taken from a final full least squares helical fit in pattern recognition. This was never implemented (I suspect we won't in the future, but it remains possible if we would like too). Hence the nonsense value of -1 to indicate it is unset. If you like to set it using the method you describe however, that is fine by me.