

















W4U1

1. There are 2 pull-down boxes. Bins and Filter(s).  
Click Refresh
2. She looks thinned.
3. Bin1

Bins: 1		Filter(s): V		Stars to plot: ...	Ensemble: ...	Refresh	
		Filter	Average	Min	Max	Std	Avg. SNR
<b>Targets</b>							
	<a href="#">V548 Cyg</a>	V	9.175	9.107	9.224	0.024	362
<b>Check stars</b>							
	<a href="#">84 (8.429)</a>	V	8.380	8.347	8.436	0.017	528
<b>Comparison stars</b>							
	<a href="#">101 (10.062)</a>	V	10.087	10.050	10.153	0.015	231
	<a href="#">103 (10.306)</a>	V	10.242	10.207	10.287	0.014	213
	<a href="#">108 (10.787)</a>	V	10.788	10.753	10.825	0.014	162
	<a href="#">115 (11.467)</a>	V	11.529	11.481	11.572	0.016	107
	<a href="#">120 (12.015)</a>	V	12.083	11.837	12.134	0.025	77
	<a href="#">85 (8.453)</a>	V	8.361	8.314	8.421	0.022	528

Bins: 2		Filter(s): V		Stars to plot: ...	Ensemble: ...	Refresh	
		Filter	Average	Min	Max	Std	Avg. SNR
<b>Targets</b>							
	<a href="#">V548 Cyg</a>	V	9.175	9.117	9.219	0.023	362
<b>Check stars</b>							
	<a href="#">84 (8.429)</a>	V	8.380	8.354	8.418	0.012	528
<b>Comparison stars</b>							
	<a href="#">101 (10.062)</a>	V	10.087	10.057	10.122	0.011	231
	<a href="#">103 (10.306)</a>	V	10.242	10.217	10.271	0.011	213
	<a href="#">108 (10.787)</a>	V	10.788	10.766	10.817	0.010	162
	<a href="#">115 (11.467)</a>	V	11.529	11.496	11.552	0.011	107
	<a href="#">120 (12.015)</a>	V	12.083	11.970	12.111	0.017	77
	<a href="#">85 (8.453)</a>	V	8.361	8.327	8.408	0.015	528

The STD goes down for the comps ( and check star). The SNR dont change. The STD for the Target is almost the same.

It ist not asy for me to explain these in english (i used google translator):

For the comp / check stars:

These Stars dont change there Mag in the Series.

The binning calculates the mean value from 2 (or N ) images. As a result, the new values have a smaller spread.

The variance is now calculated from these new values. This must be smaller than the old values, since the new values are included in the result with a smaller square difference.

The new STD is then the square root of the variance.

So the new STD is less than the old STD.

For the Target: The Traget changed the Mag in the Series, so the difference between the the Result Values after Bining is greater than by the Comps Stars. The result STD can't go down as much as by the comp stars.

But when the STD from the comp stars goes down, the function to compare the comp with the target can be better.

4. Disable/enable is not possible when binned
5. When Binng goes up, the STD for the comp goes down, but the STD for the target is nearly the same.
6. The target period must match to the sequence.
7. When the Target Mag change is to high in the sequence time
8. I see that the Airmass rises up. But i dont if this is the correct answer. When i take a look at the first and the last picture i dont see any difference :-).