Test on colour correction

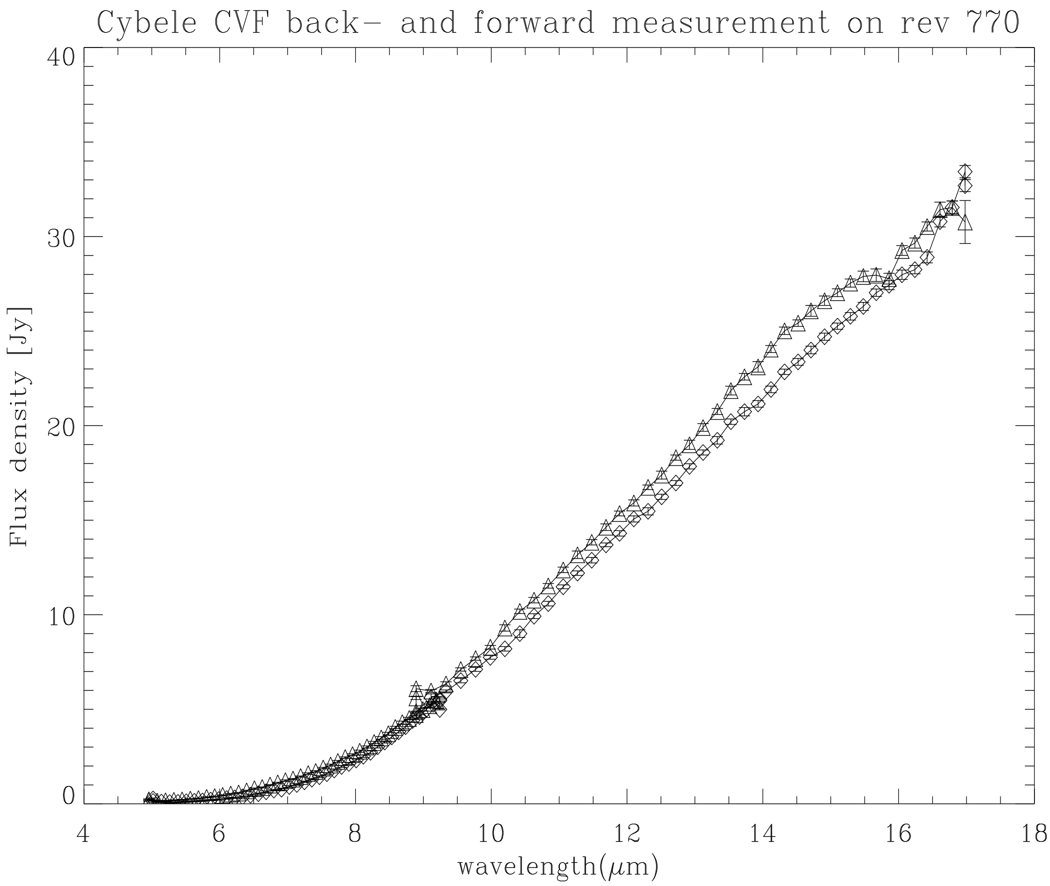
A few red sources (SED strongly deviating from normal stars) were observed in calibration time to test the colour correction (or filter curves):

- Asteroid Cybele (LW filters, Rev 770)
- IRAS 21091+4907, post-AGB (SW filters, Rev 801)
- IRAS 02408+5458, dusty Carbon star (LW filters, Rev 851)

Results for Cybele:

Observations sequence:

- Off-source, staring mode, for high background LW filters
- CVF $(17.5 - 5\mu m)$
- On-source, staring mode, all LW filters
- CVF $(5 - 17.5\mu m)$


Cybele CVF back- and forward measurement on rev 770
Flux density [Jy]
wavelength(μm)
0
10
20
30
40
4
6
8
10
12
14
16
18

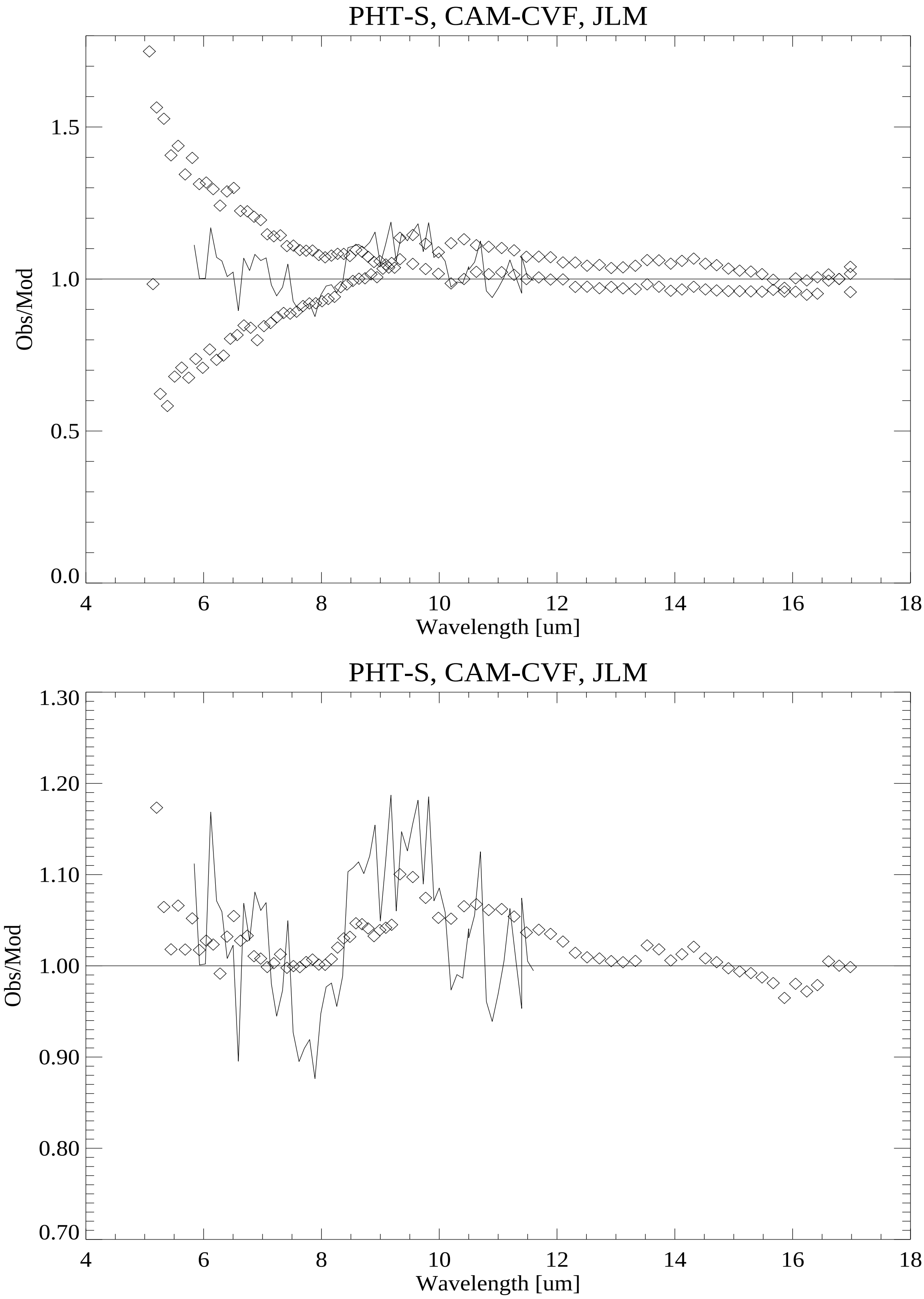


Figure 1: Comparison of CVF with PHT-S (full line) and Asteroid model (Th. Müller): Good agreement except for short wavelengths (low fluxes ($\sim 0.1-1$ Jy, transient problem).

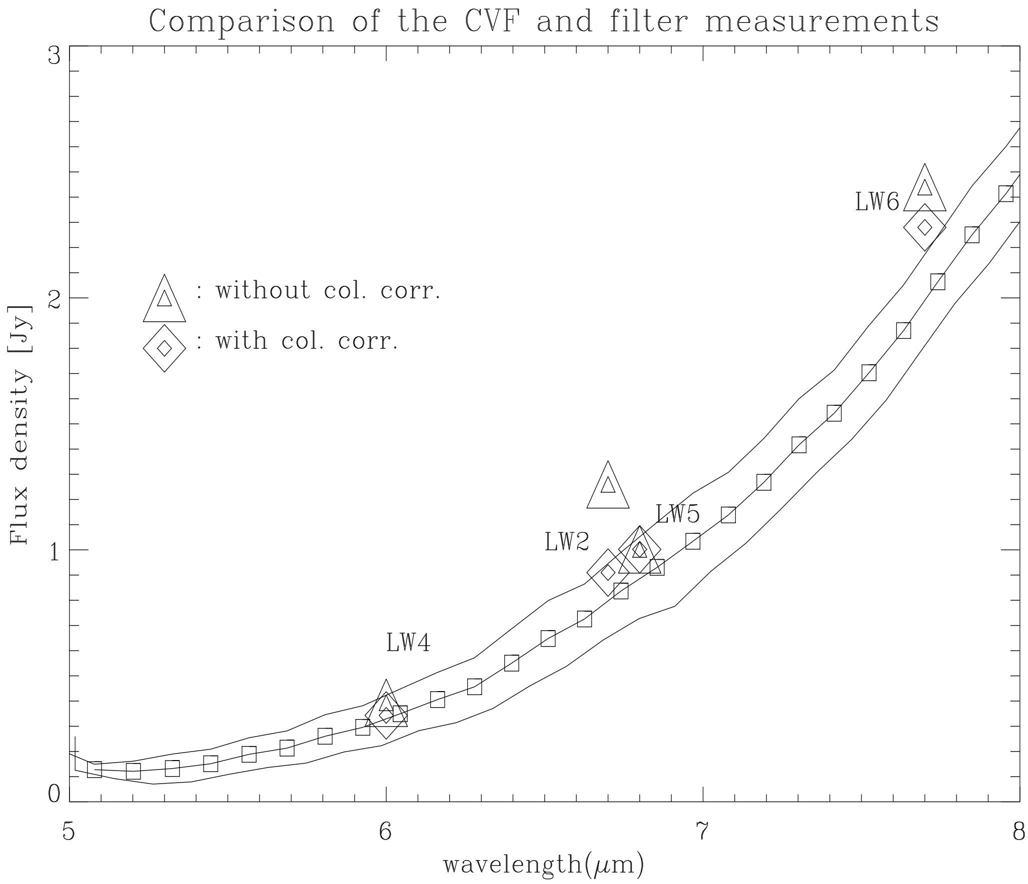


Figure 2: Comparison of the CVF and filter measurements. Colour corrections applied: LW2: 1.37, LW4: 1.15, LW5: 0.99, LW6: 1.07

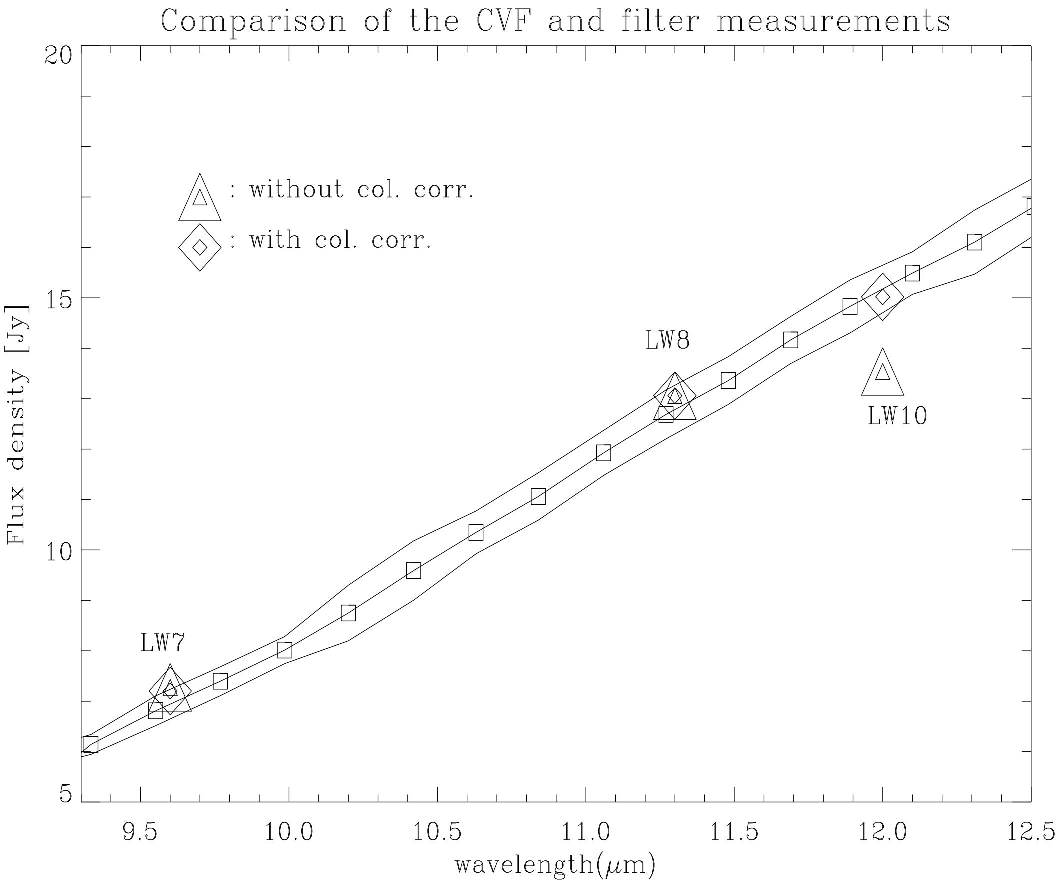


Figure 3: Comparison of the CVF and filter measurements. Colour corrections applied: LW7: 1.01, LW8: 1.00, LW10: 0.91

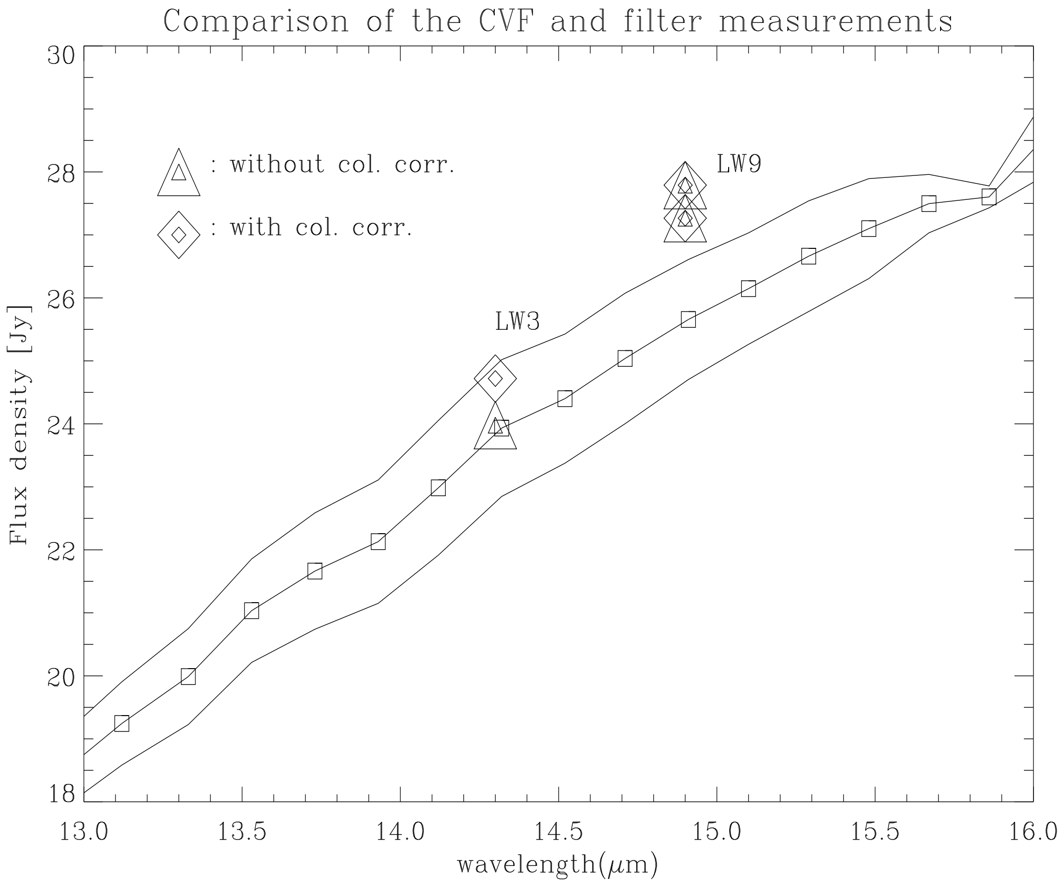


Figure 4: Comparison of the CVF and filter measurements. Colour corrections applied: LW3: 0.97, LW9: 0.99