

FS CMa with interferometer

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FS CMa HD 45677, MWC 142

- B[e] star

forbidden emission lines, Hydrogen line in emission ($H\alpha$ 30 x continuum), infrared excess (dust shell)

- Herbig or post main sequence star?

- slow and dense equatorial disk +

fast and rare polar wind Zickgraf (1985)

T_{eff} 22000 \pm 1500K Israelian (1996, A&A 311, 643)

α 6h 28min. 17.4221s.

δ -13 $^{\circ}$ 3' 11.137"

V 8.05 mag.

K 4.62 mag.

π 2.82 mas HIPPARCOS Catalogue

AMBER 3T – U1 + U3 + U4

date 26.12.2006

λ 1.46 microns low resolution

obs. period 60 min. hour angle ± 3 hours

calibration stars:

star	dis [°]	K [mag]	vis. ²	sp. type
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HD 41695	5.69	4.52	0.93	A0V
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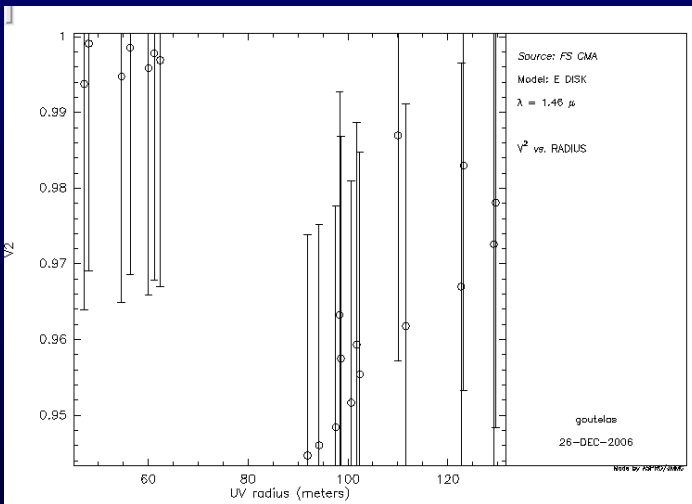
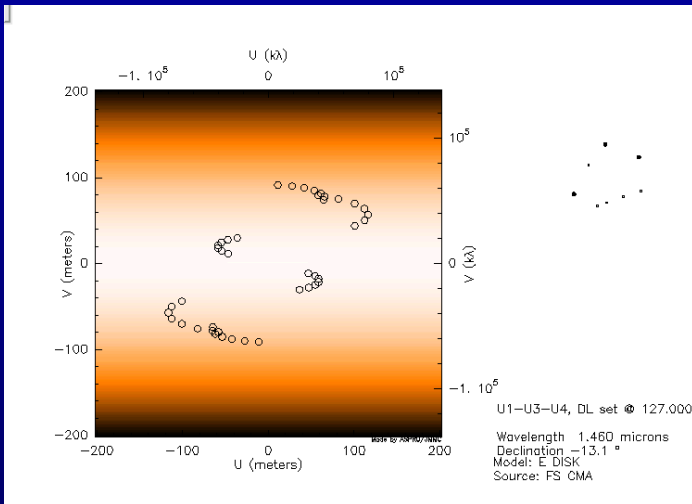
HD 40536	7.969	5.6	0.92	A6m
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model – E_DISK

$$D_{\min} = 1e-6^{\circ} \quad (R = 1R_{\odot})$$

$$D_{\max} = 5e-4^{\circ} \quad (R = 20R_{\odot})$$

position angle 0°



$$D_{\min} = 5e-4^{\circ} \quad (R = 20R_{\odot})$$

$$D_{\max} = 2.6e-3^{\circ} \quad (R = 100R_{\odot})$$

position angle 30°

