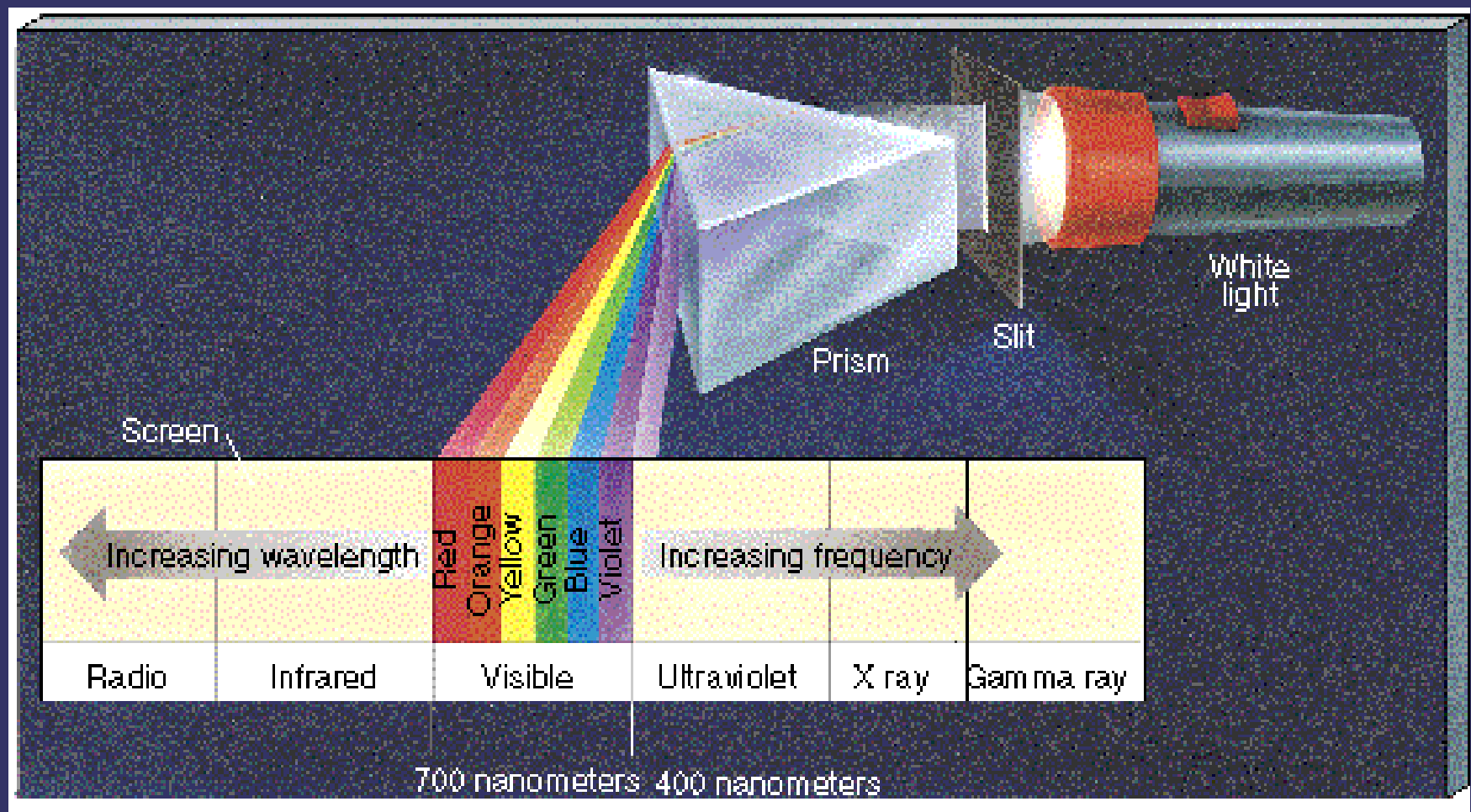
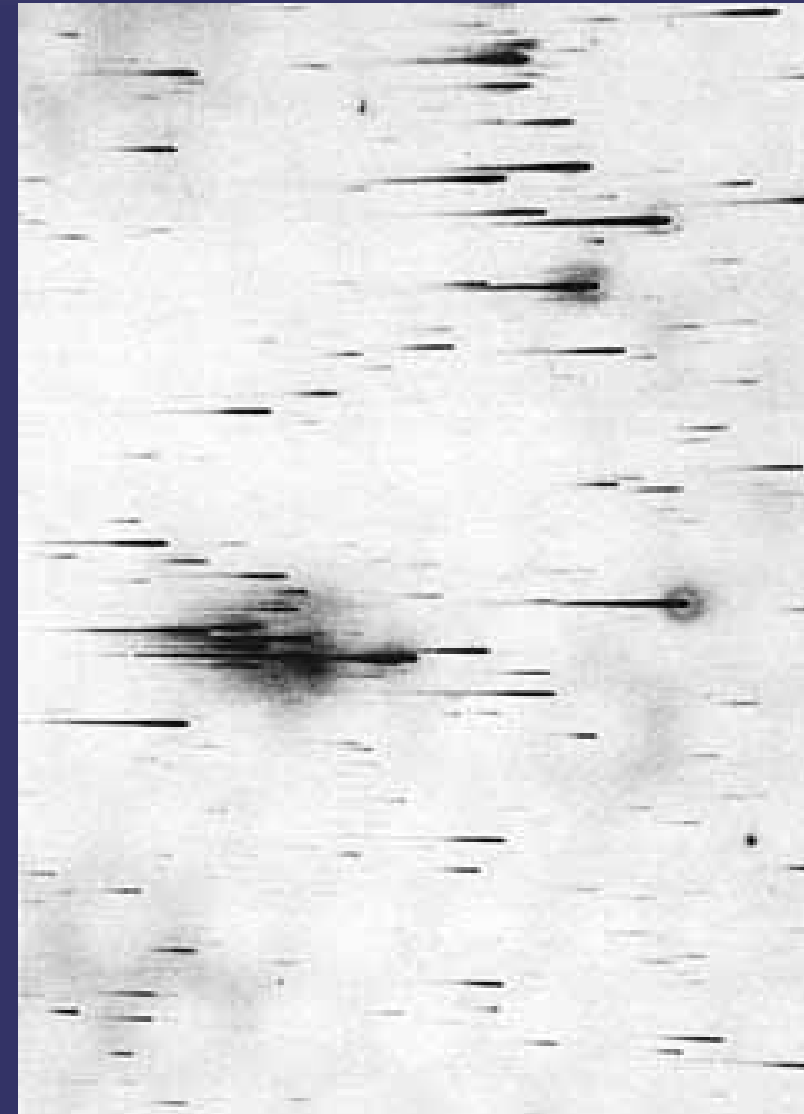
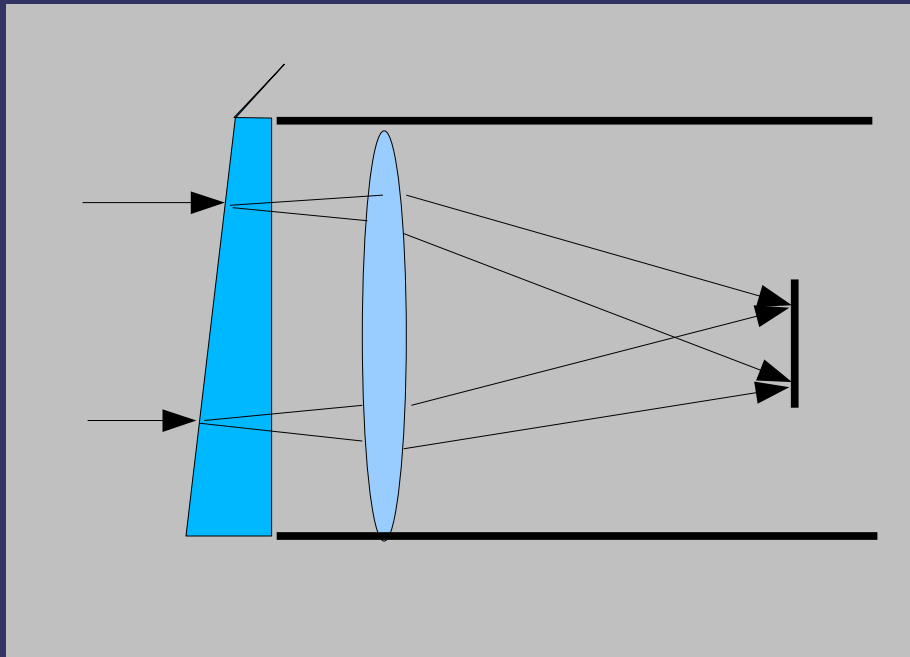


Csillagászati spektroszkópok



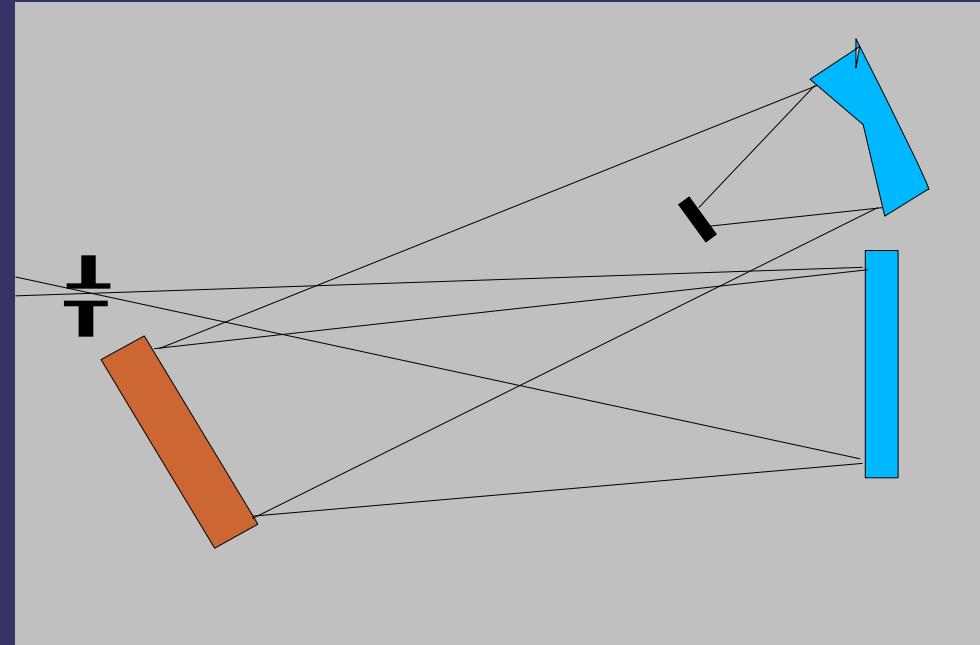
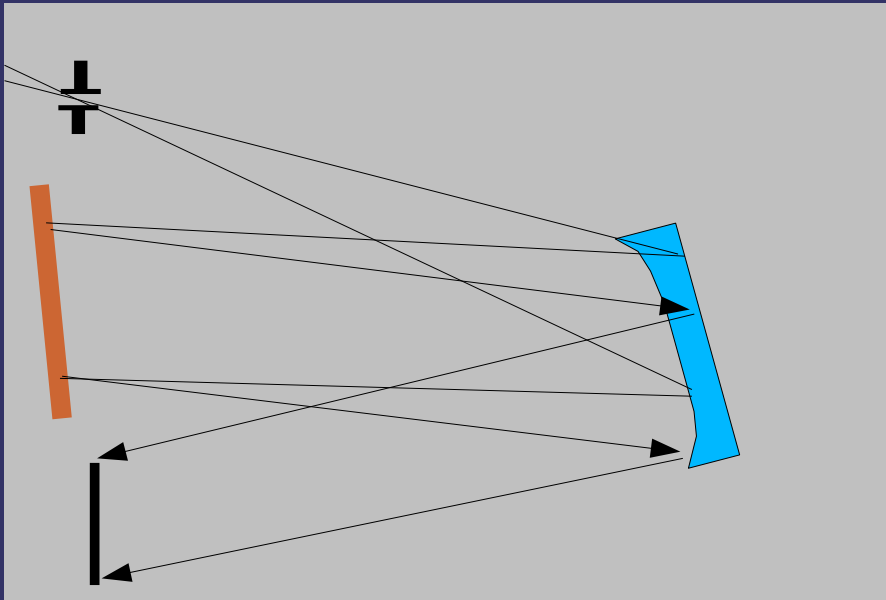
Objektív prizma

- ⇒ kis felbontás
- ⇒ nemlineáris diszperzió



Cassegrain spektroszkóp

- ⇒ alacsony rend
- ⇒ $R = 1000-15000$
- ⇒ lineáris diszperzió (majdnem...)

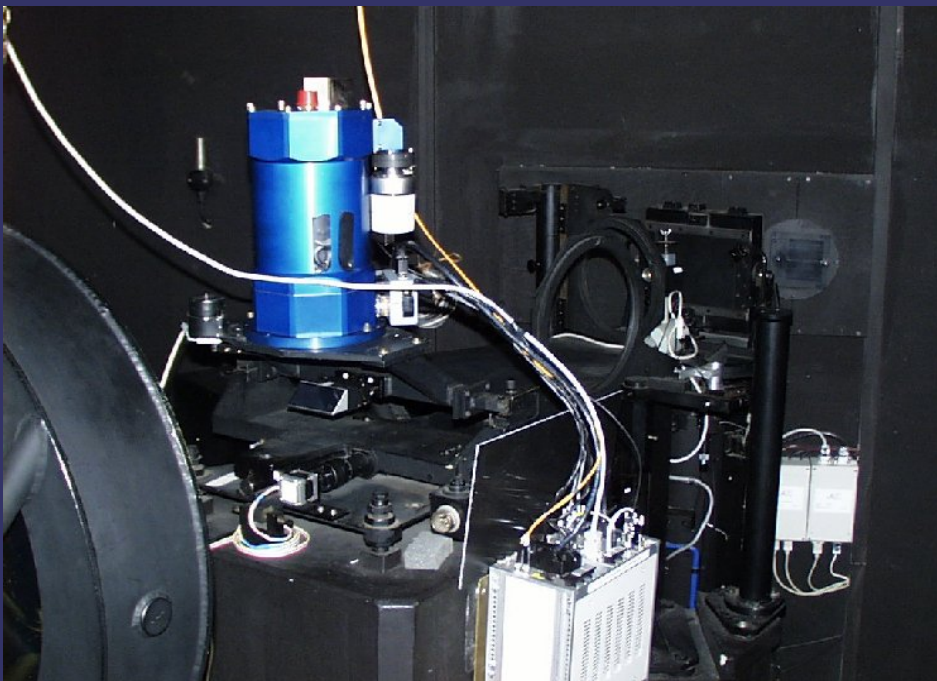
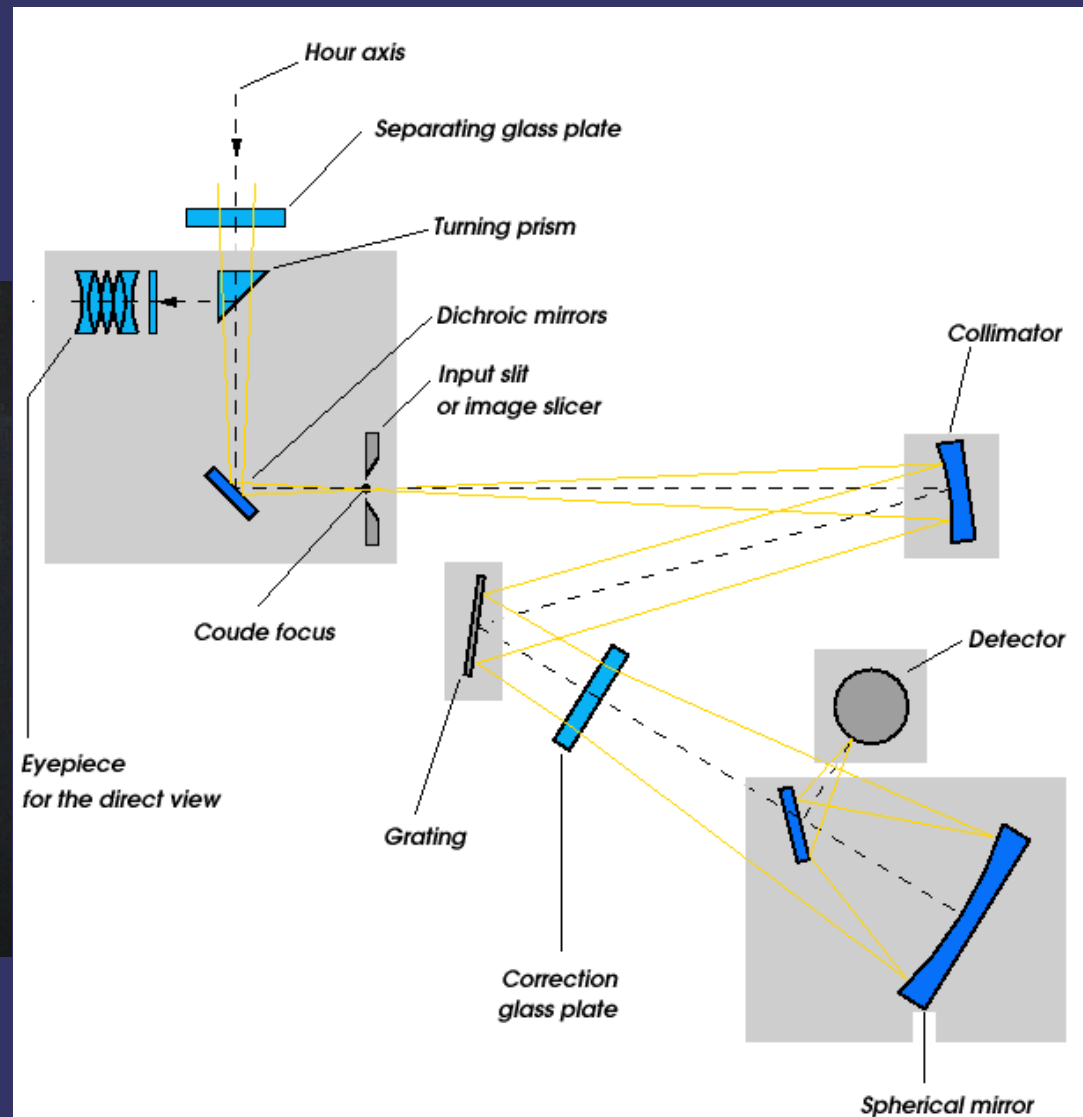


normál

autokollimációs

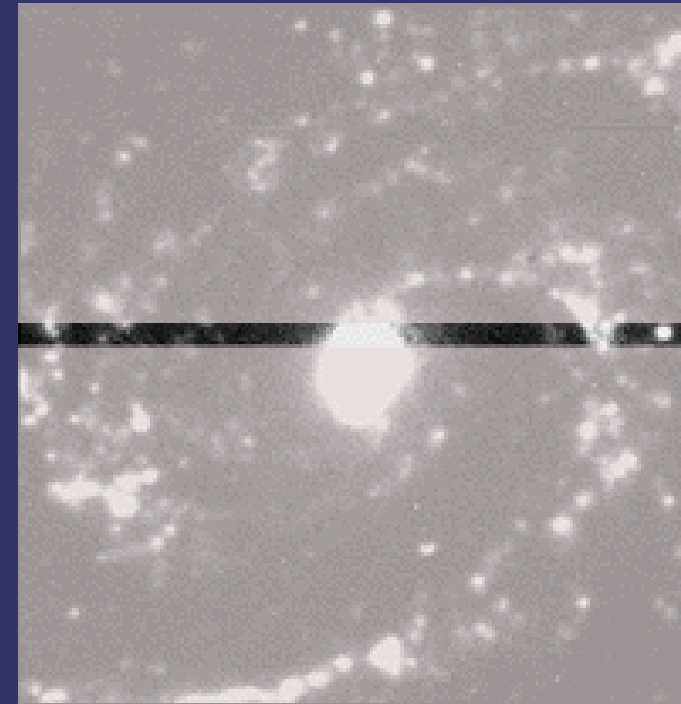
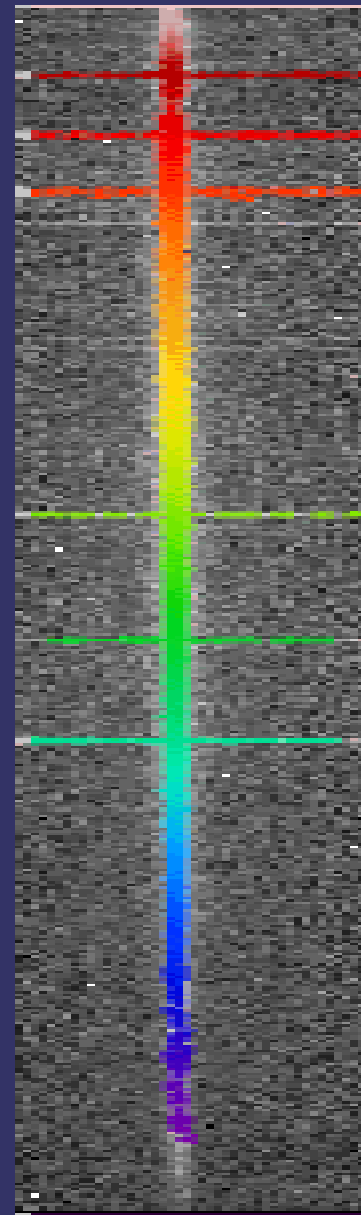
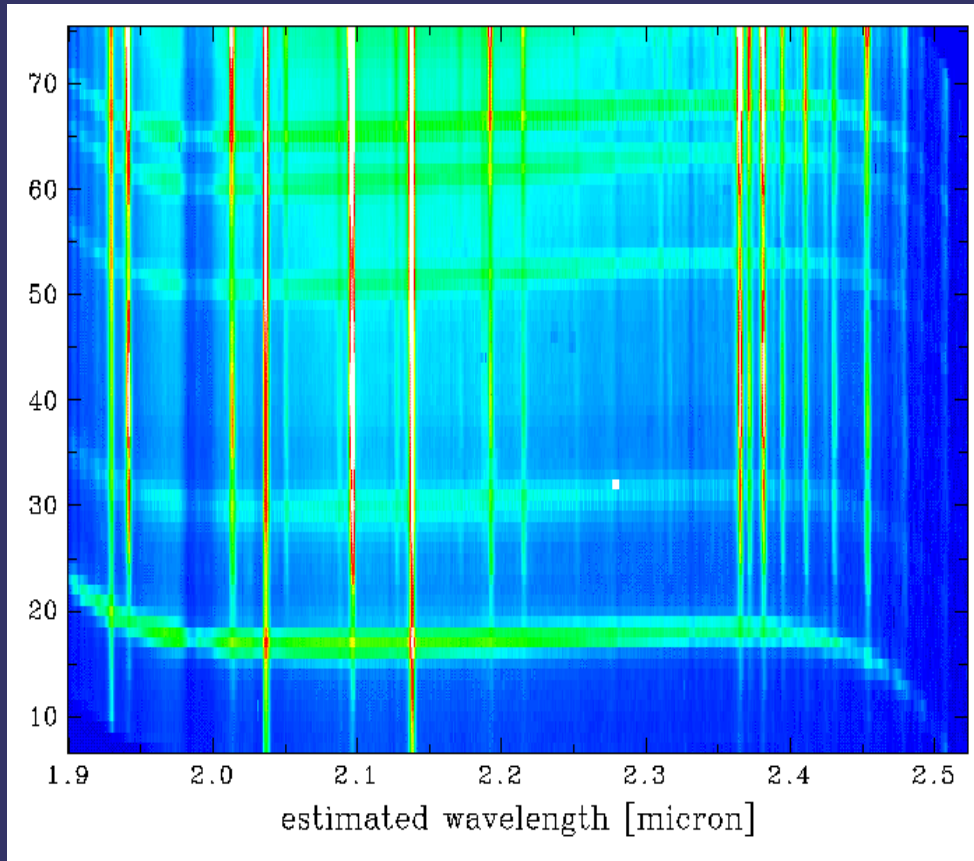
Coudé spektrográf

- ➔ nagy felbontás ($R > 50000$)
- ➔ fix pozíció (Coudé-fókuszban)
- ➔ egyszerre több rend rögzítése



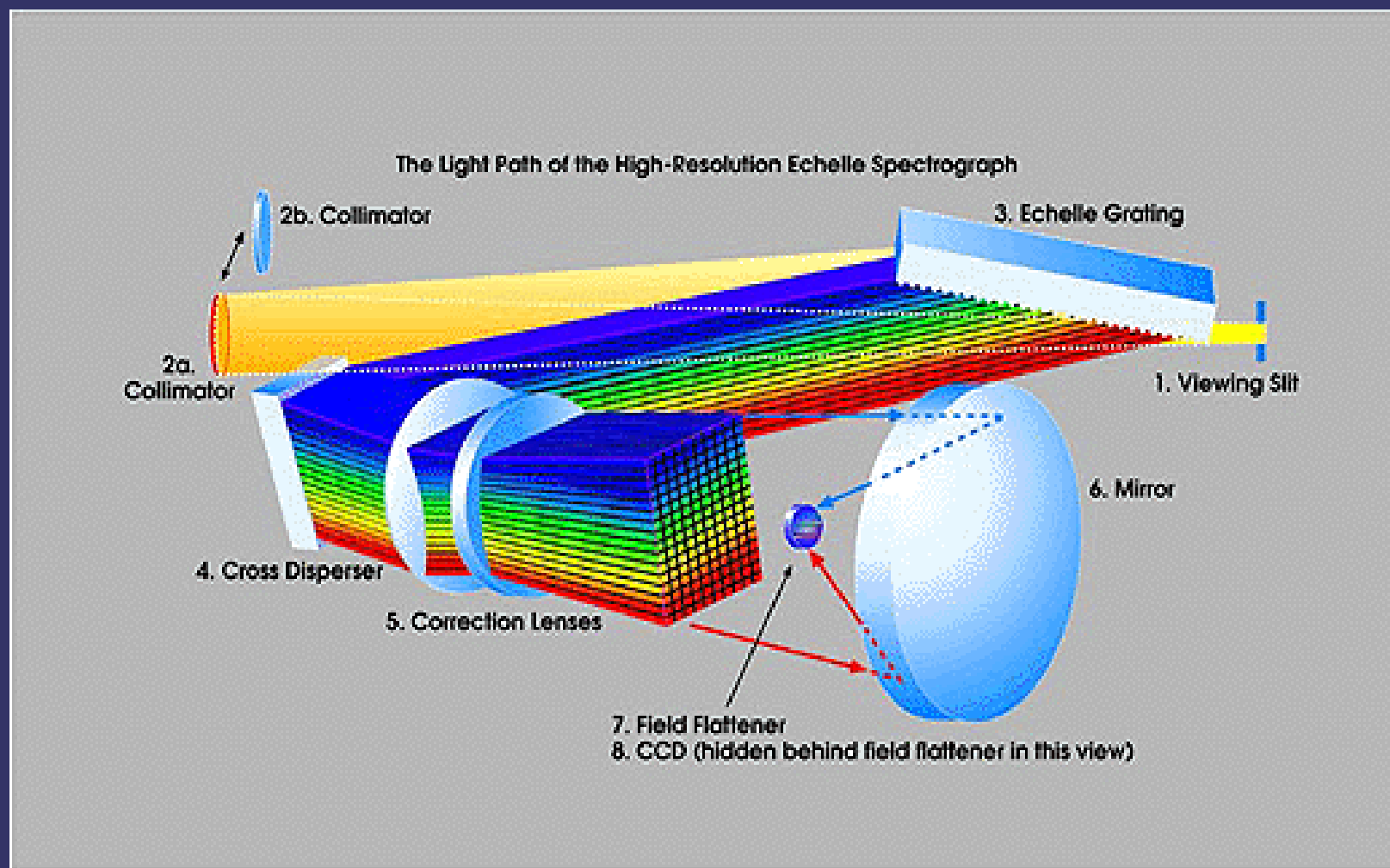
Long slit spektrográf

- ➔ kiterjedt objektumok vizsgálata
- ➔ a rés kül. pontjaiból más-más spektrum



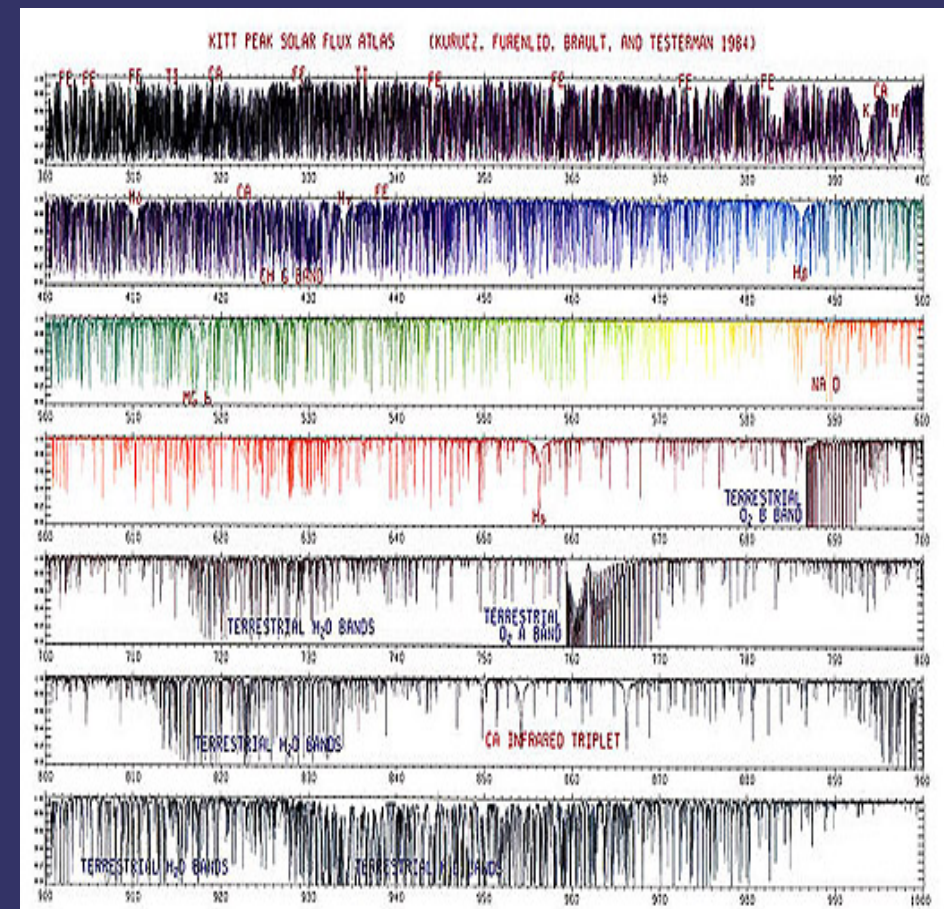
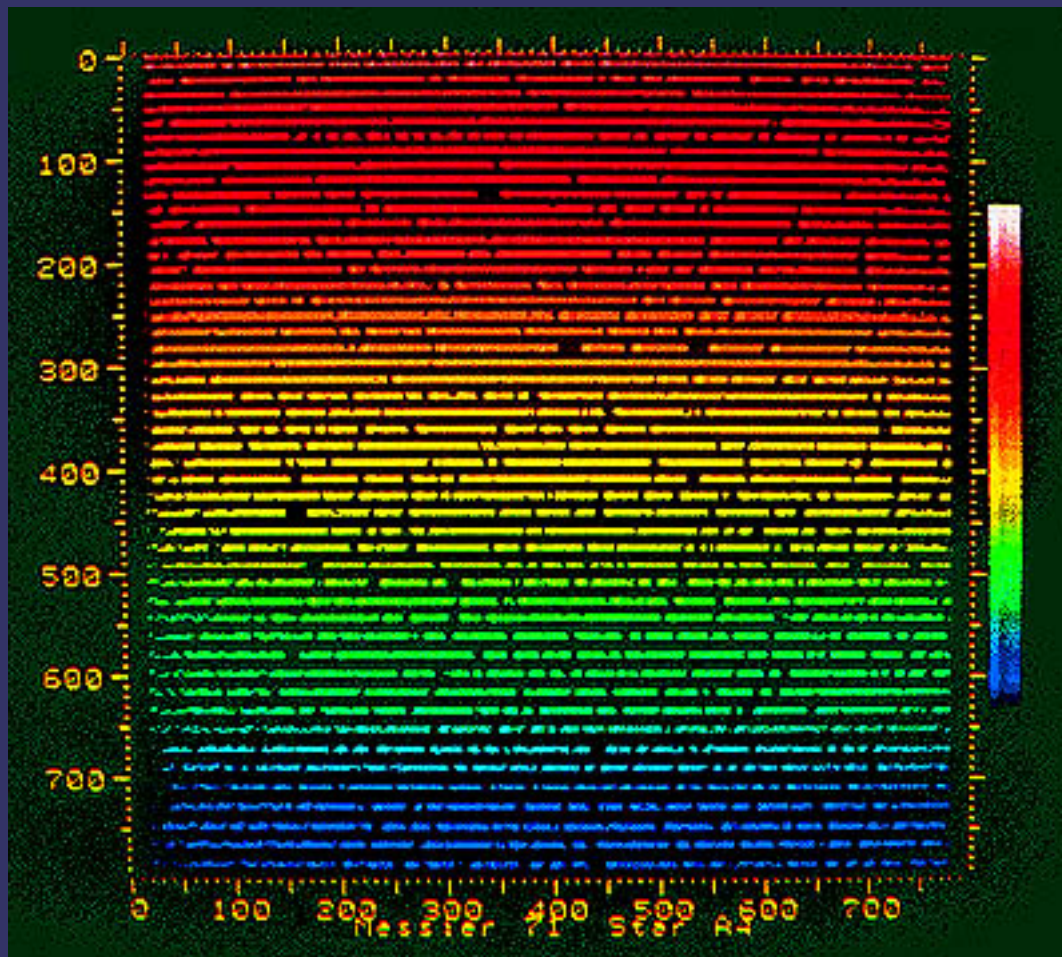
Echelle spektrográf

- ⇒ magas rend ($m > 20$)
- ⇒ $R = 30000 - 100000$



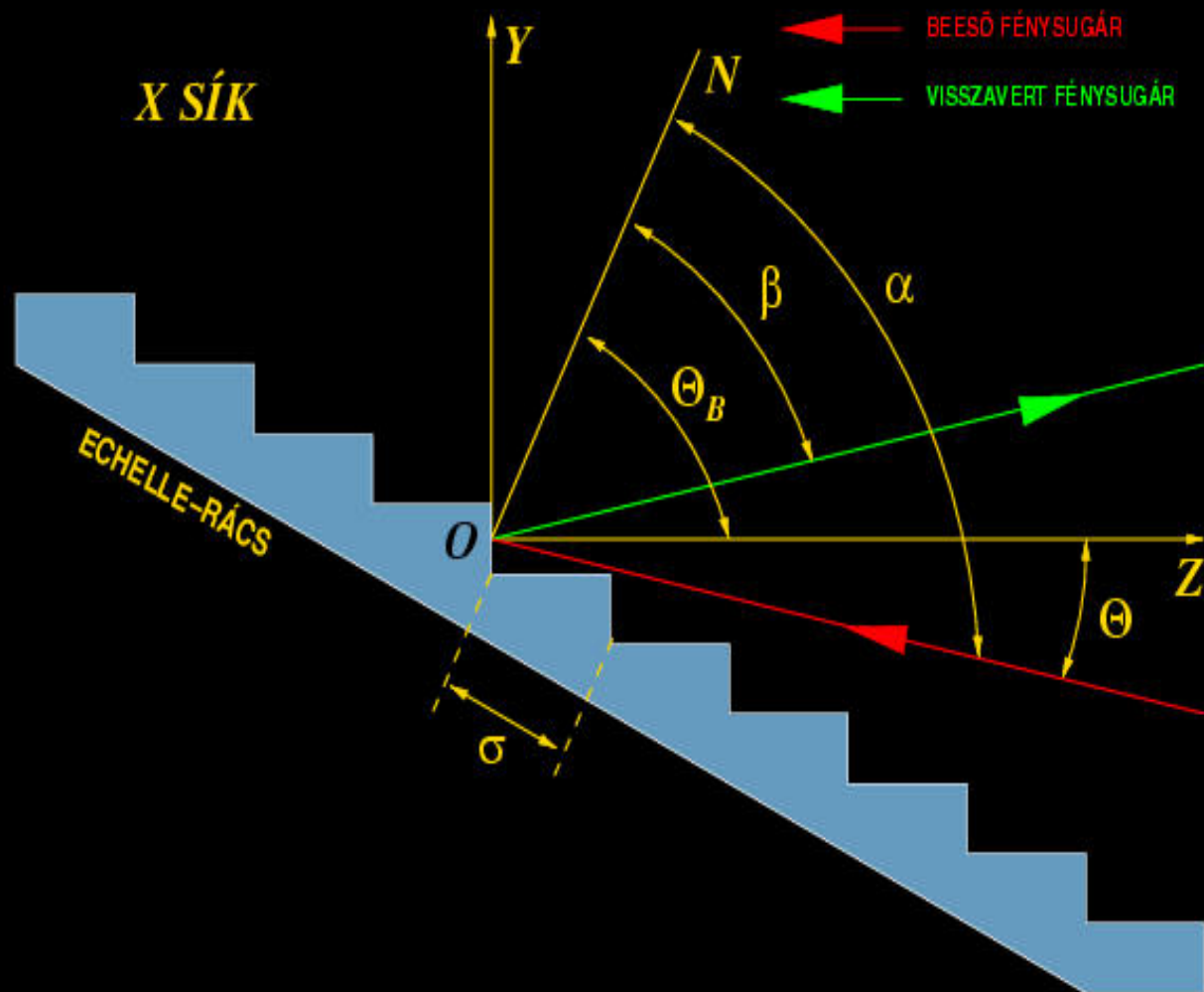
Echelle spektrográf

- ➔ magas rend ($m > 20$)
- ➔ $R = 30000 - 100000$



Echelle rács

ECHELLE-RÁCS KERESZTMETSZETE



θ_B : blaze angle

σ : rácsállandó

Grism (prizma+rács)

- ⇒ kis felbontás
- ⇒ kompakt méret
- ⇒ IR tartomány

