Here us will discuss the possibility of spectral expans. on through diffraction, i.e. to perform Spectroscopy. Consistrons for noin maxima 15_ D = ~] O,5 dependent on 7 1 + 1 2 7 m spectroscope properties of the Les's characterize grating. (1) Angelos disperssion D = 10 1 cos & 10 = m 1 1 J 2" E) = m y $\int \frac{d\theta}{d\lambda} = \frac{d\theta}{d\cos\theta} = \frac{dy\theta}{\lambda}$

The greater Addraction angle B la greater

the angular disperssion.

What Loes it mean!

m=0 2) Area of free 1 sporssion The is area where different orders do not overlap.

7 7+07 (7+1) = (m+1) 1max = 2 1 Jun = 1 => 1 Jun 1 -

D= 3 57 min 52 m2 13 Re smelles d différence we can observe separately.

addistional minimum corresponds in this case the Valley main max, munum

mossin 6 20%.

Aldidian I, dsn 0 = (m + -1) 7,

Main max 12 den 0 = un 12

 $R = \frac{1}{2m^2} = m N$

 $\frac{1}{m} = \frac{1}{m} = \frac{1}$

(3) Resolution power