Astronetry - precise measurements of positions and movements of stars of celestral obj.

tho towerry - measuring flux or intensity of astronomical Obj.

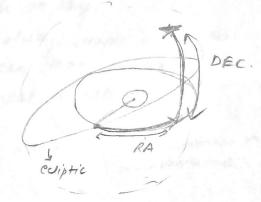
Proper Motion 'u' - angular change in position of a stor across our los.

- are seconds per year.

Sobseived in reflects the relacity of a star relative to the Solar system at the time the light was emitted from that star.

Epoch > Julian Epoch J2000.0

(Besselan Epoch Jan1, 2000 at 12:00 Tr



light Ascension

$$24h = full circle = \frac{2\pi}{rad} = \frac{360}{}^{\circ}$$
 $1h = \frac{1}{24} \text{ circle} = \frac{15^{\circ}}{1} = \frac{\pi}{1/2} \text{ rad}.$
 $1' = \frac{1}{1} = \frac{4.848 \times 10^{-6} \text{ rad}.}{}^{\circ}$

u = 1 arcsec per year at a distonce of 1 light year corresponds to a relative

fransverse speed of 1:45 km/s.

$$v_{t} = n/t$$

fordered ?

fordered ?

fordered ?

for do me differentiate blue moving

galaxies and for away galaxies ?

that want move

 $= \frac{(9.46 \times 10^{12} \text{km})(4.848 \times 10^{10})}{3.2 \times 10^{9} \text{s}}$ $\sim 1.43 \text{ km/s}$