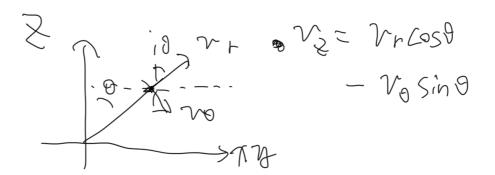
Intal for of Tolinh 1967

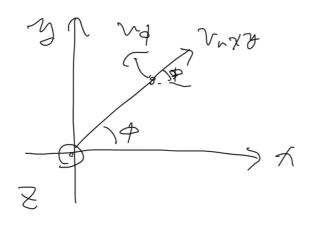
(Spherial to Cartes; an (Vr. Vo. Vx)) > (Vx, Vx, Vz)

o Vy Vo -> Vrxx



· Vys = vrsing + vourd

o Vrxx, Vp - Vx, Vz



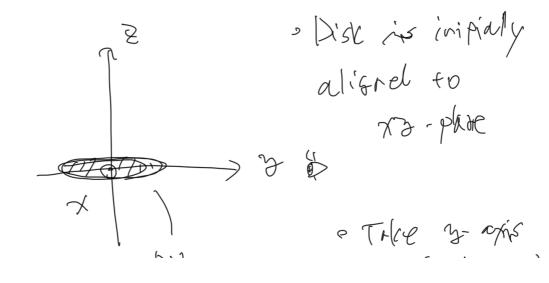
= Vasind cosp = Vasind cosp + vo on on on of vasing C>3 p = Vasing + vacosp = Vasing + vacosp Sing + vacosp

 $V_{x} = V_{r} \sin\theta \cos\theta + V_{0} \cos\theta \cos\theta - V_{0} \sin\theta$ $V_{y} = V_{r} \cos\theta + V_{0} \sin\theta \cos\theta + V_{0} \cot\theta$ $V_{\pm} = V_{r} \cos\theta - V_{0} \sin\theta$ 2 + 12 - V2 + V3 + V4 2 2 2 (Vrsin2002) + Vocablospt Vp sig + 2 Vrvo siocadosp- 2 Vrvo showara - 2 VO VP COSO 2 PMP) + (virion + vising ~3 + vp asp 42 Vr Vo 2000 + 2 Vr Vp 2 o and sit -KOAKAO. I NOK GNIGHTADED)

t(v2020 + v2-20 -2 vrvo sourt) = V, (23000pt)3625p +0030) + vo (and owed + 12 - 20) + vp2 (220 + 020) +2~~~ { ~ iomo (20 + mig) = ~ iomo) +2 Yrvof -repart cost 12 past Crof y +2 /0 vp (- 2 v ch20 + 2 0 m20)

= N5 + N0 + N4

2. Rothtion



as the line-of-sight

2 Rotate
Coordinates

Al (ed) model

Tham different
angle.

. Inke anti-doubline positive. C-vhirme votacion with angle 3

x'= x y'= 25in x 2'= 25in x 2'= 25in x 2'= 25in x Same for x \(\lambda \tilde{\tau} = \lambda \tilde{\tau} \)
\(\lambda \tilde{\tau} = \la

By taking not - axis as the limest sight VLOS = Vos @ Inchination 2 -s votation angle 3 in in Single on in in its state on in its state on its state on its state on its state of the interval of the Z=1° so thife Define Disk upper libe foces to us. ¿ 43 8 7 = 10 - 9, 0 = 90 - 2 To [... Lisk upper side at z'=0° 2/ 2 tupper side (el, 0 = 90° Votation must -> > he tulen Ao

negative o

(3 = - (90°- i)

Again, take auti-clocknise positive.

where vs is the line of - sight velocity vos, i is the inclination angle, and 3 is the vorational angle.