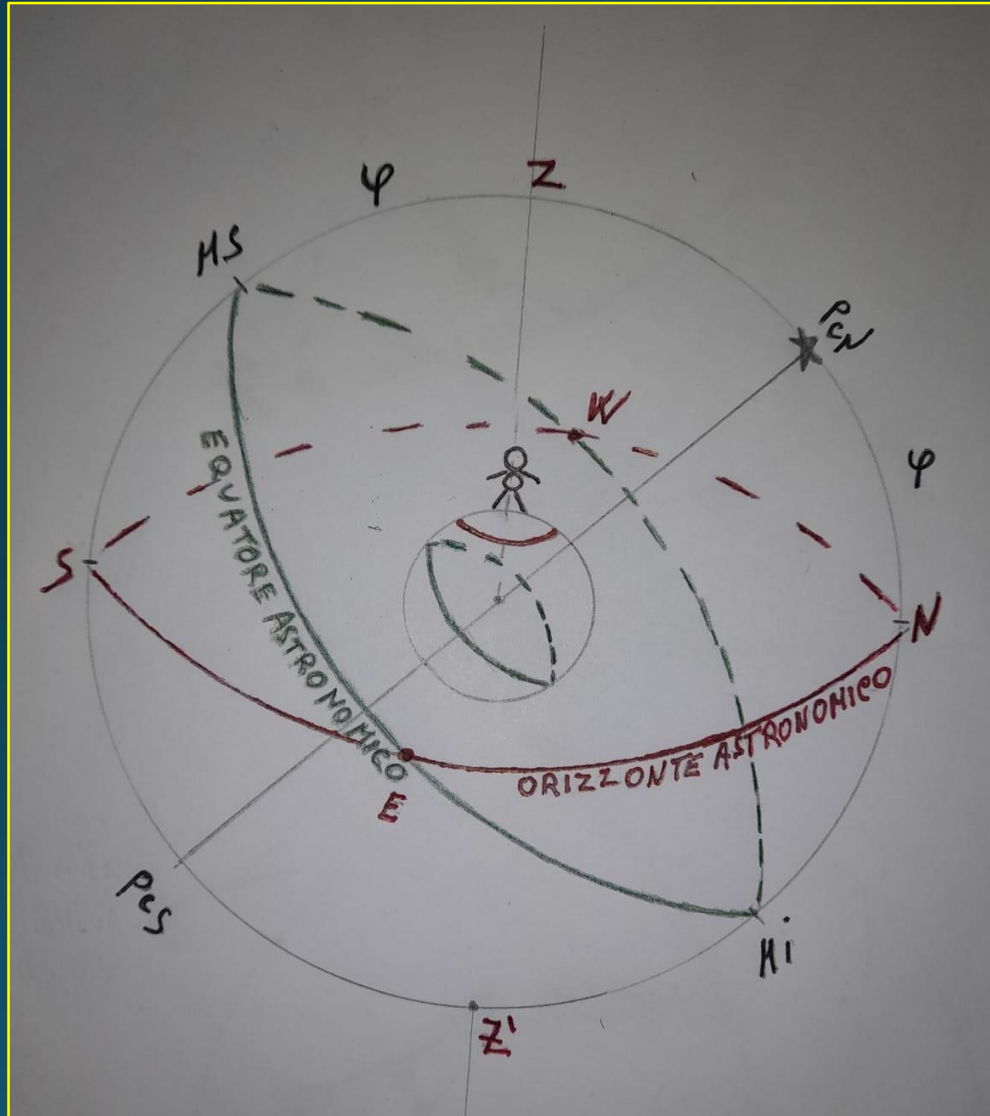


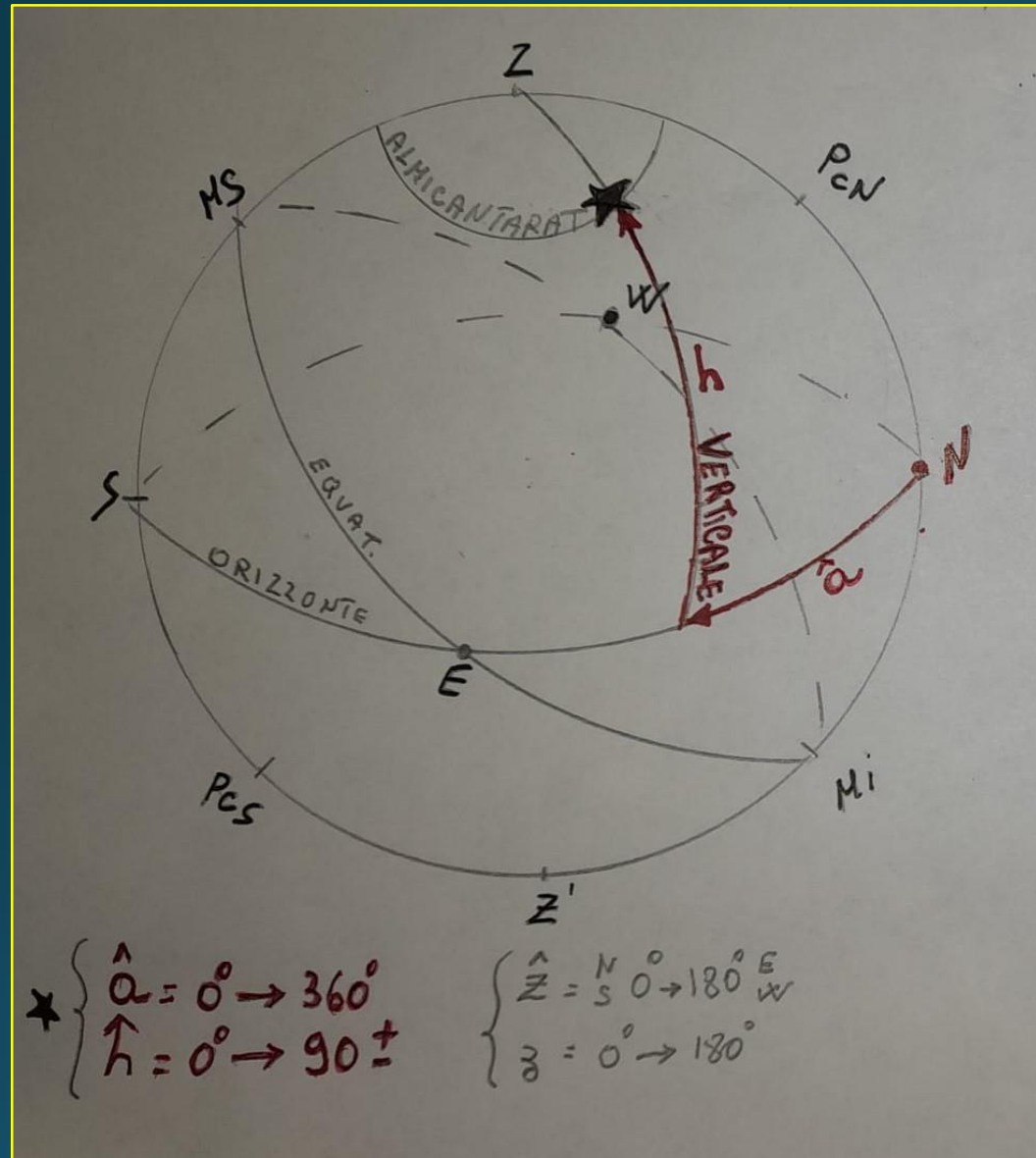
COSMOGRAFIA

PUNTI E CERCHI FONDAMENTALI DI RIFERIMENTO SULLA SFERA CELESTE

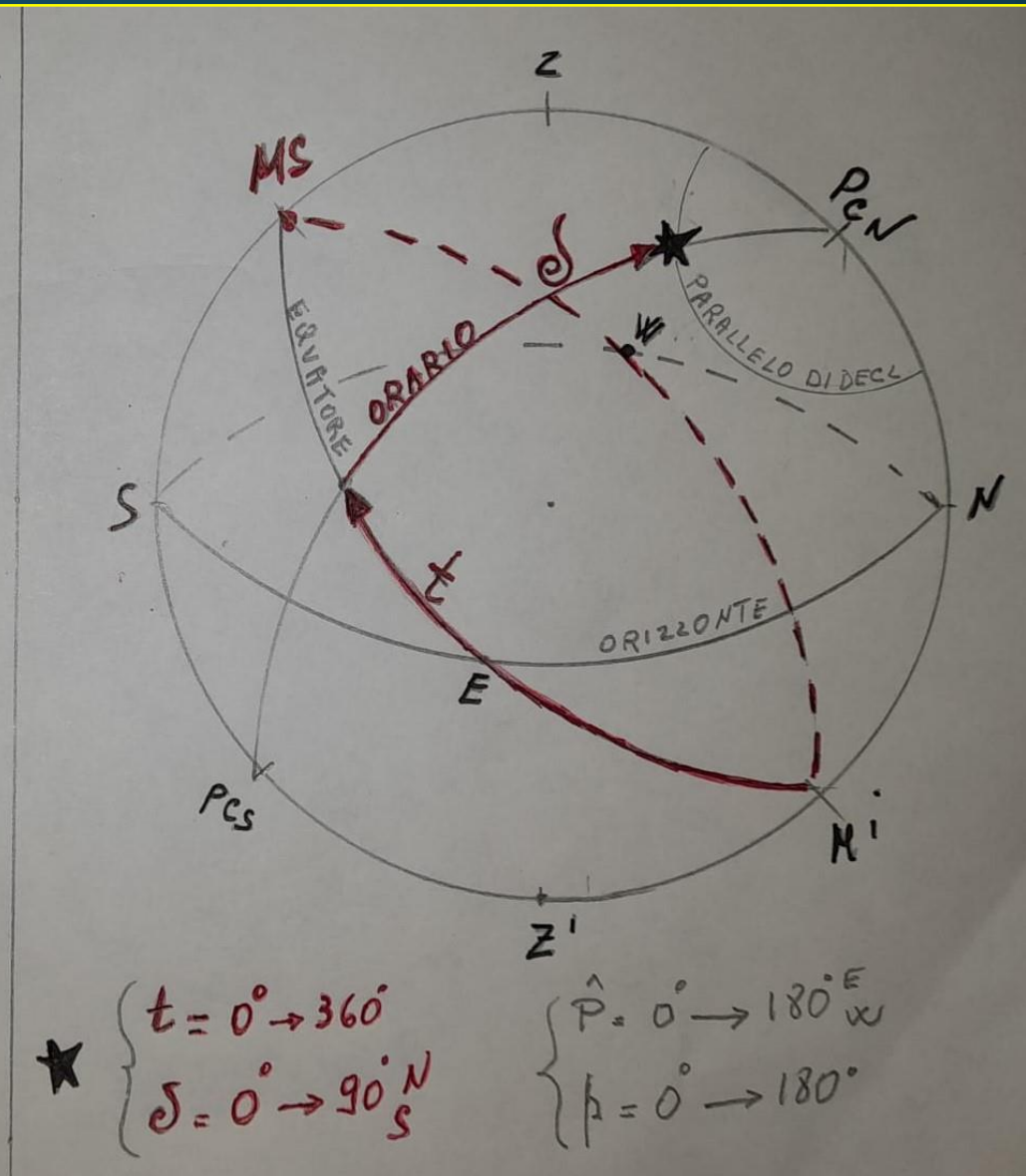


φ = latitudine
PcN = Polo celeste Nord
PcS = Polo celeste Sud
Ms = Mezzo cielo superiore
Mi = Mezzo cielo inferiore
Z = Zenit
Z' = Nadir
N = Cardine Nord
S = Cardine Sud
E = Cardine Est
W = Cardine Ovest

COORDINATE LOCALI ALTAZIMUTALI CERCHI DI RIFERIMENTO ORIZZONTE - VERTICALI

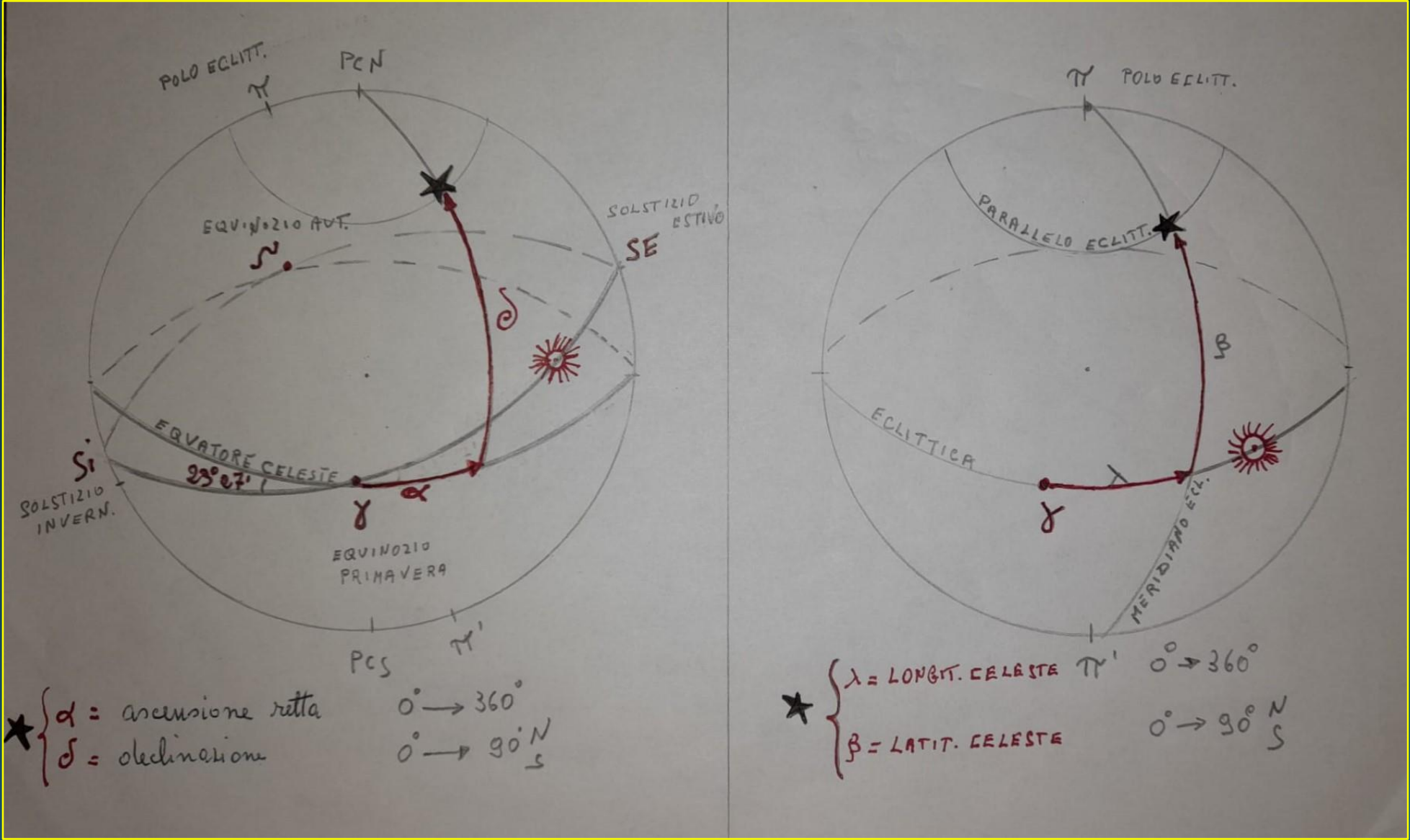


COORDINATE LOCALI ORARIE

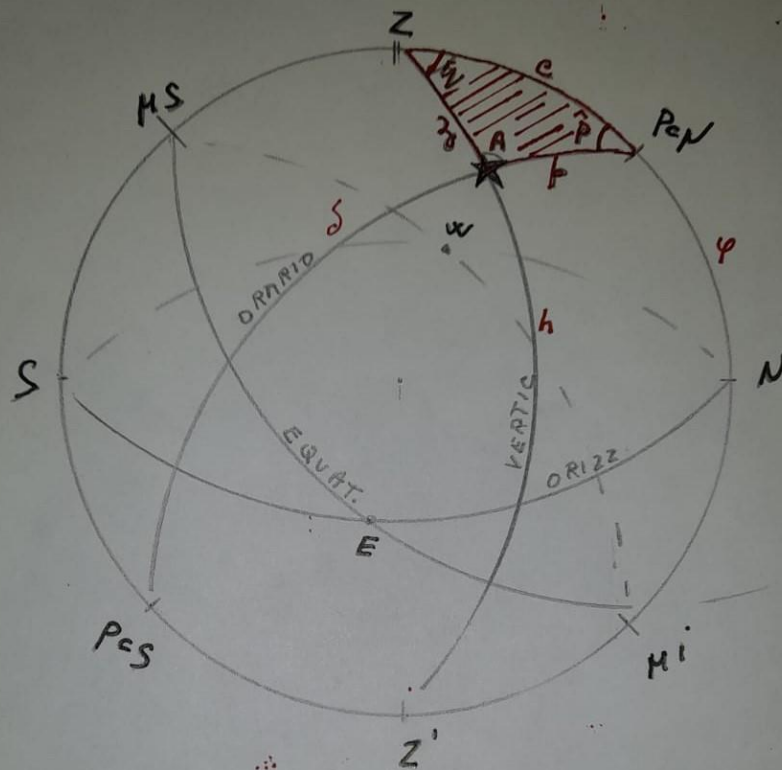


COORDINATE URANOGRAFICHE EQUATORIALI

COORDINATE URANOGRAFICHE ECLITTICHE

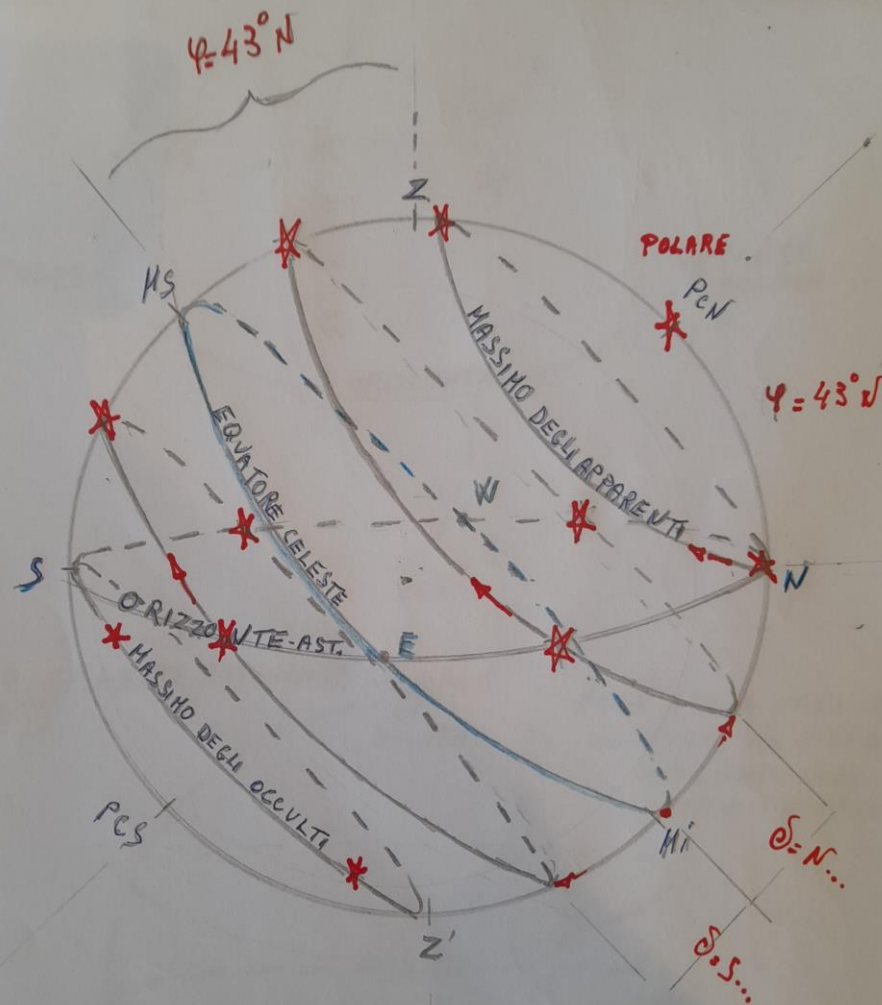


TRIANGOLO DI POSIZIONE



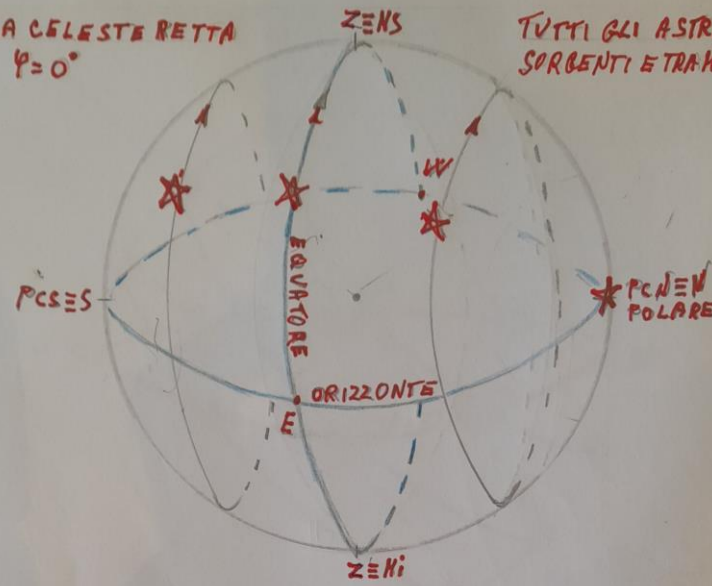
C = POLARITUDINE $90^\circ - \varphi$
 $\hat{Z}$ = ANGOLO AZIMUTALE
 $\hat{A}$ = ANGOLO AL POLO
 p = DISTANZA POLARE
 z = DISTANZA ZENITALE

MOTI APPARENTI DIURNI DELLE STELLE ($\delta = \text{costante}$) SORGENTI - TRAMONTANTI E CIRCUMPOLARI



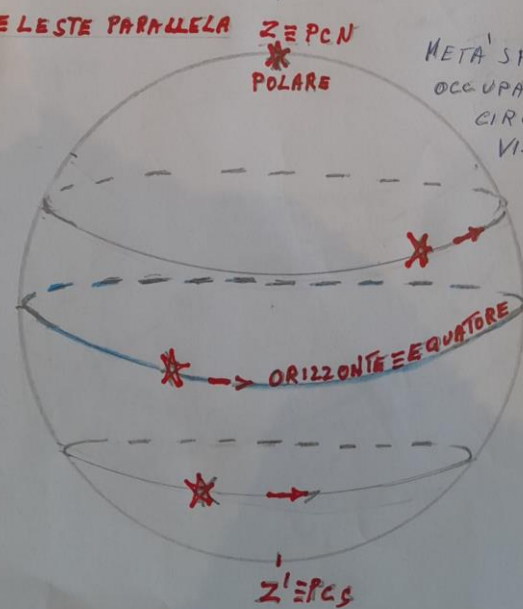
SFERA CELESTE RETTA
 $\varphi = 0^\circ$

TUTTI GLI ASTRICI SONO
 SORCENTI E TRA MONTANTI

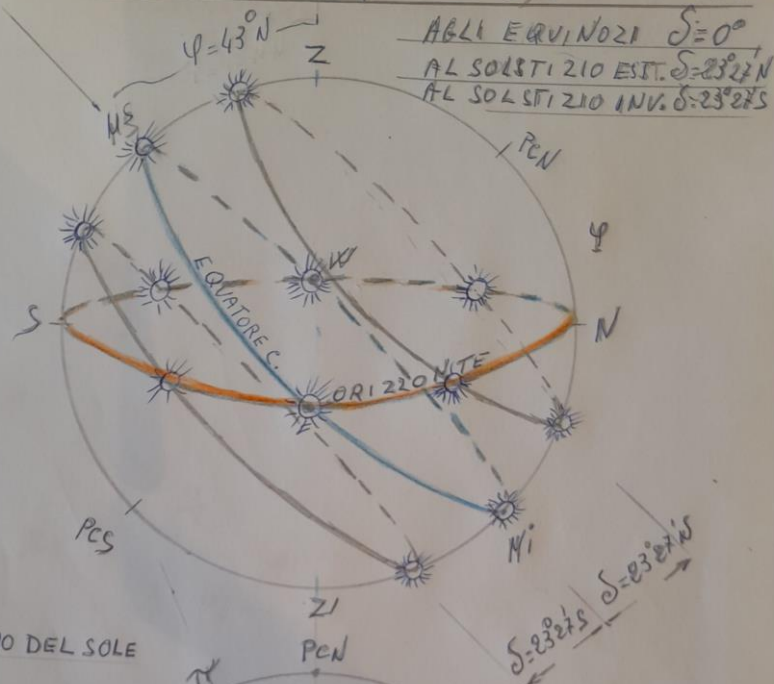


SFERA CELESTE PARALLELA
 $\varphi = 90^\circ$

MEZZA SFERA CELESTE
 OCCUPATA DA ASTRICI
 CIRCUMPOLARI
 VISIBILI E INVISIBILI



MOTO APPARENTE DIURNO DEL SOLE (δ variabile) ALLA $\varphi = 43^\circ N$



MOTO ANNUO DEL SOLE

