

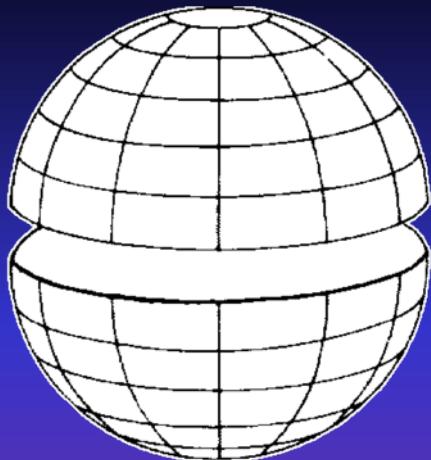


*Astronomia de Posição
2º semestre - 2022*

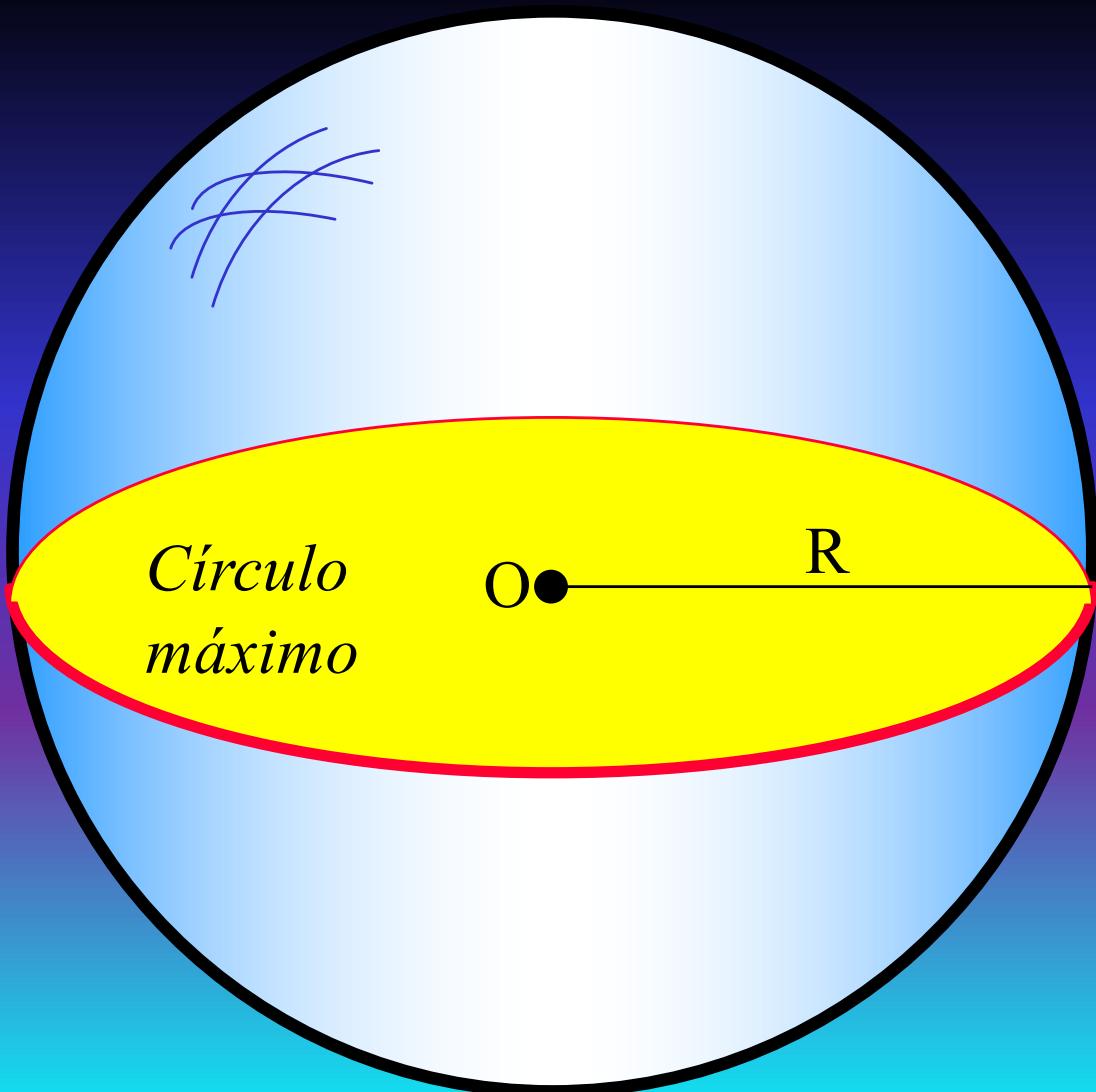
Aula_4 – 24/08/2022

Conceitos de geometria esférica e elementos da esfera celeste

grande círculo ou círculo máximo



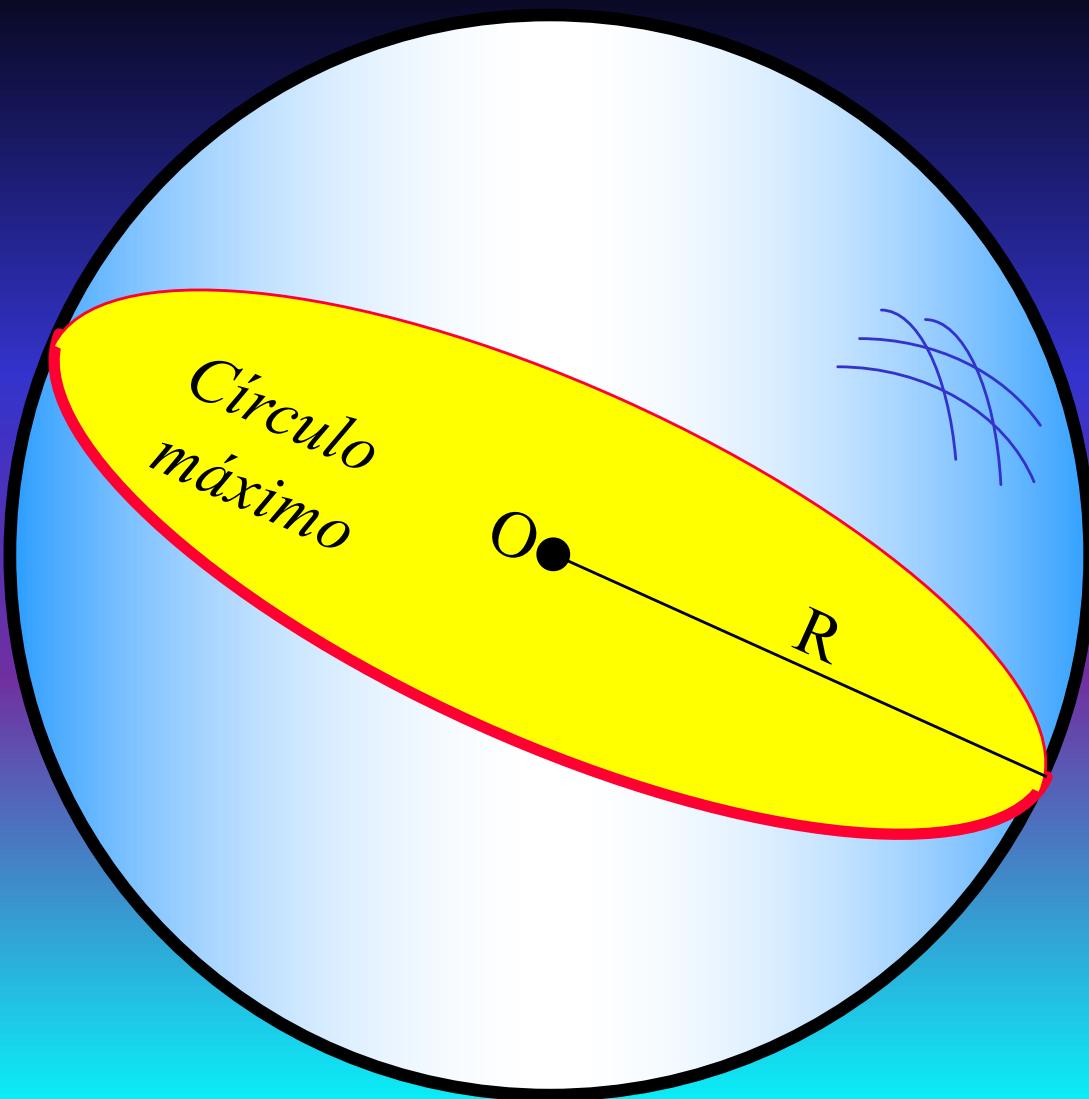
*Círculo
máximo*



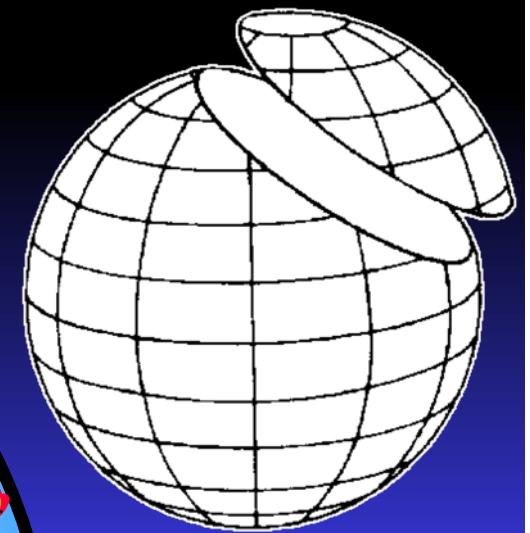
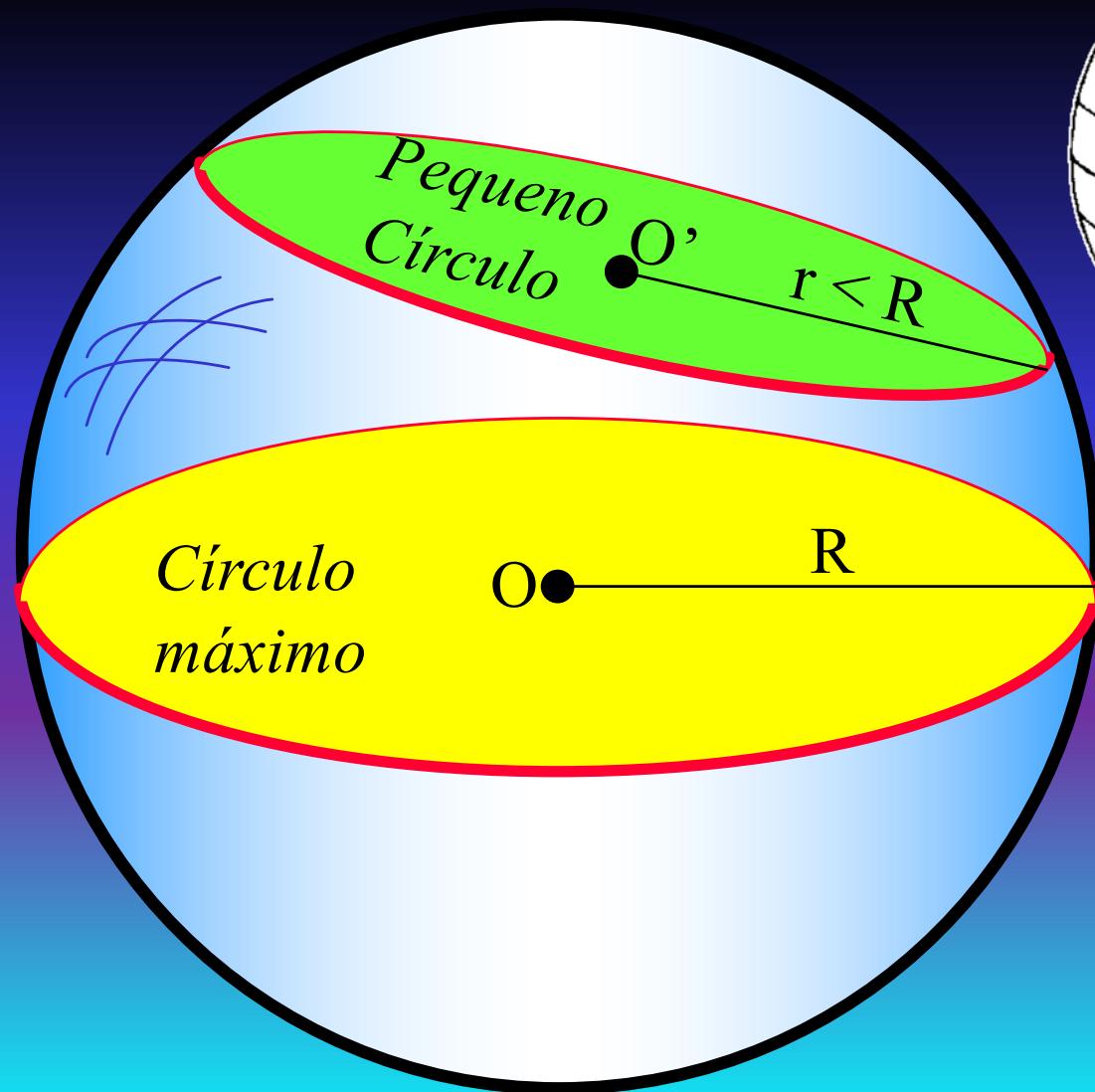
grande círculo ou círculo máximo



*Círculo
máximo*

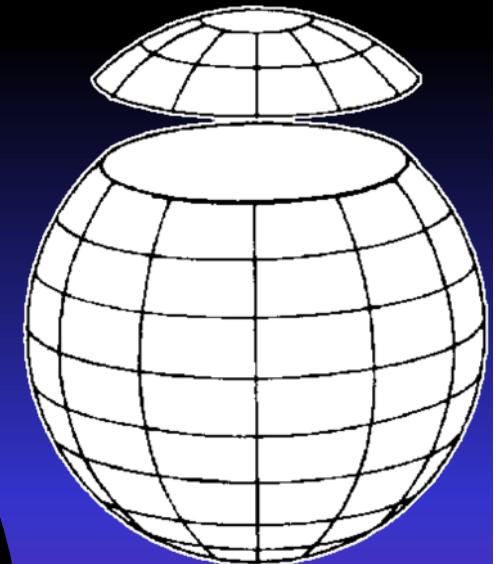
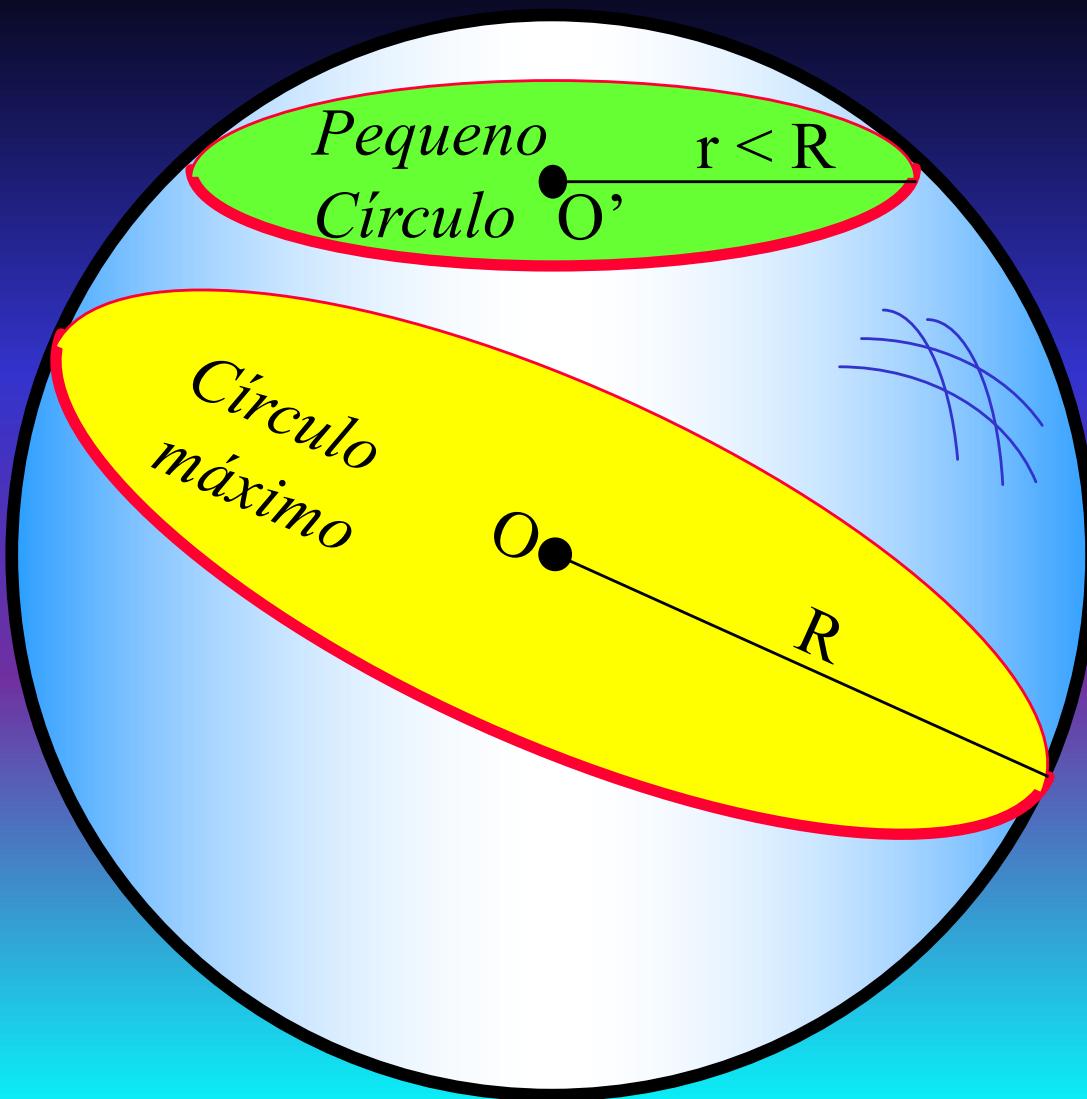


pequeños círculos



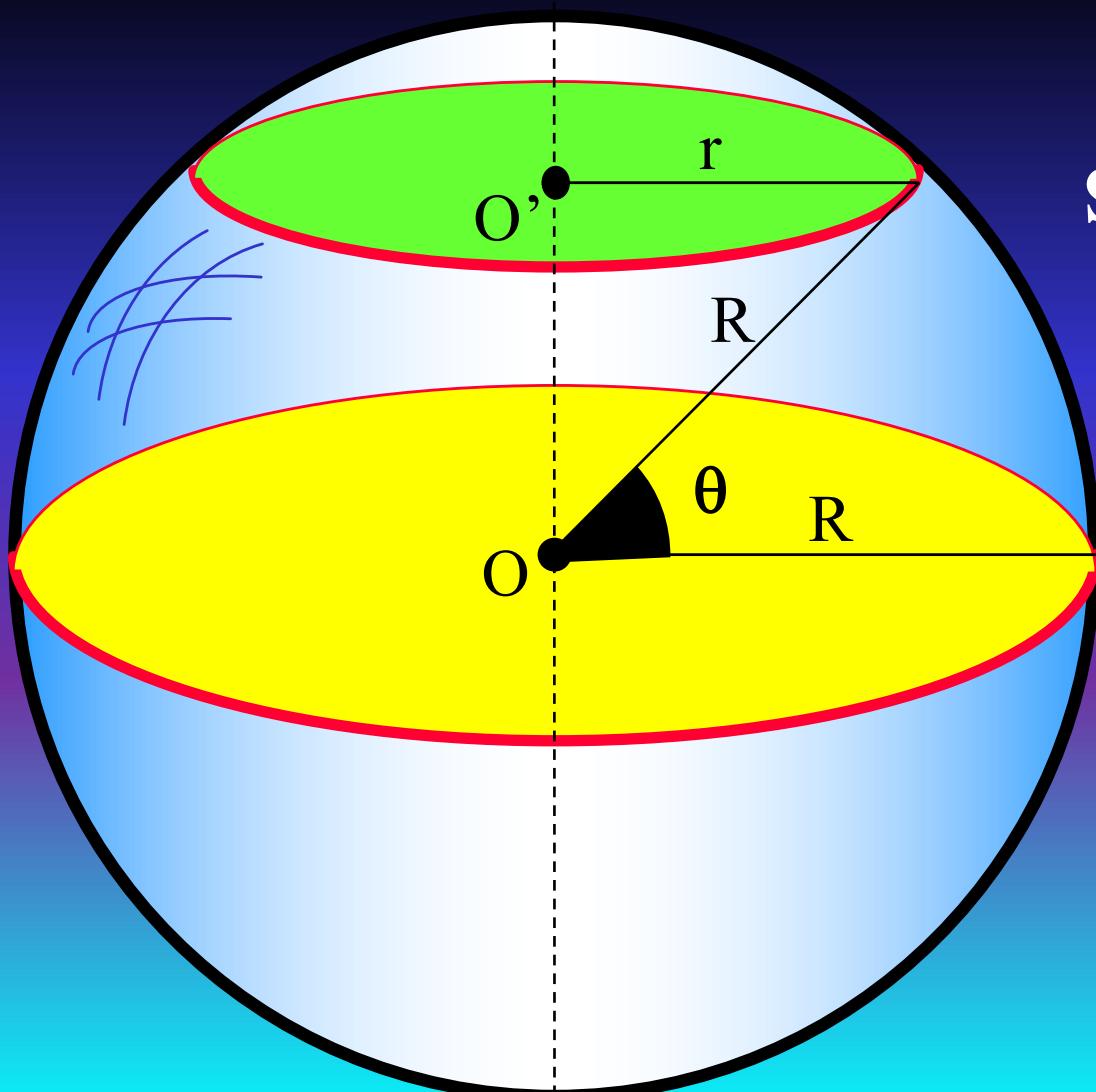
*Pequeno
círculo*

pequeños círculos



relação entre os raios

“R” e “r”

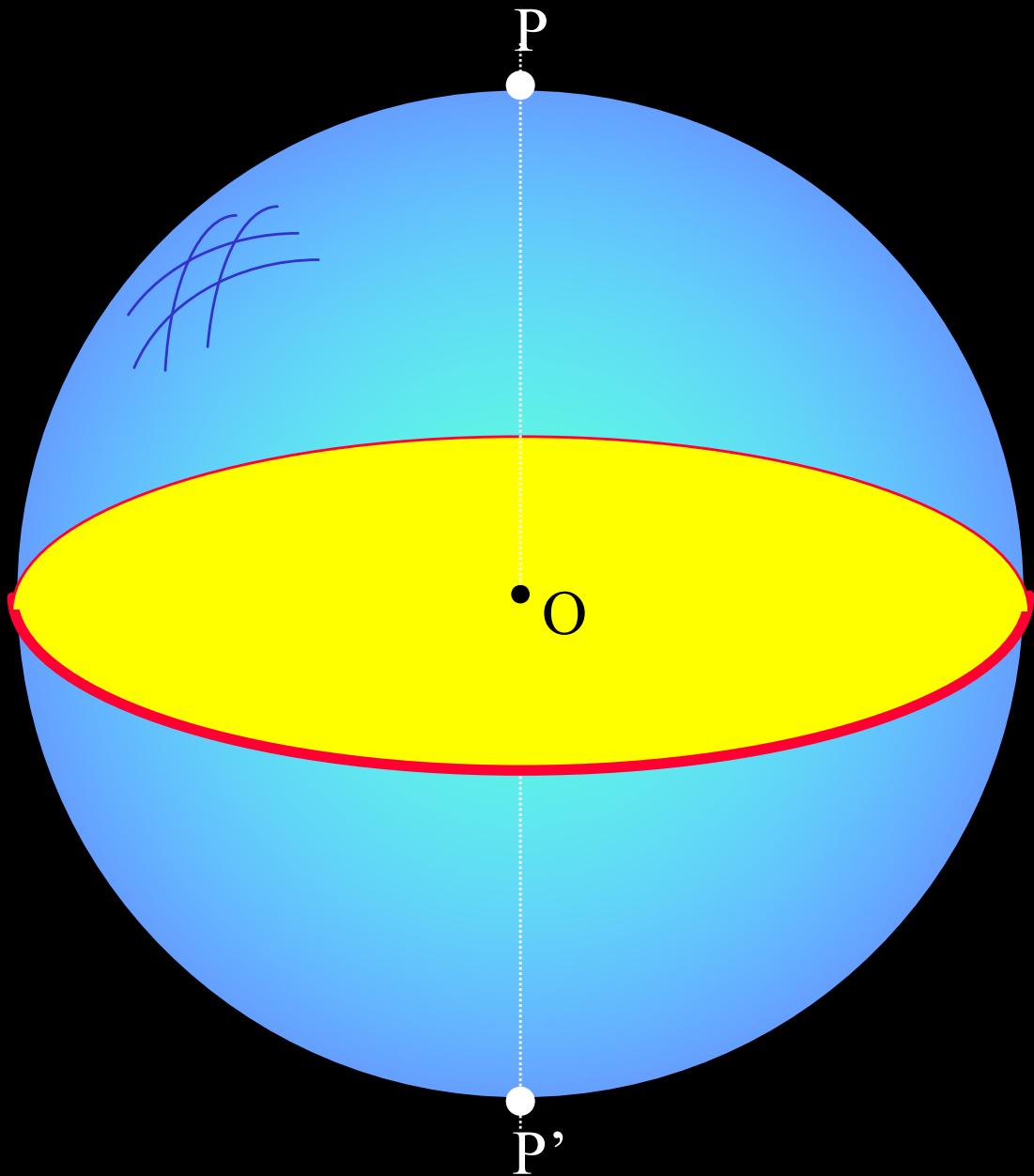


$$\sin(90^\circ - \theta) = r/R$$

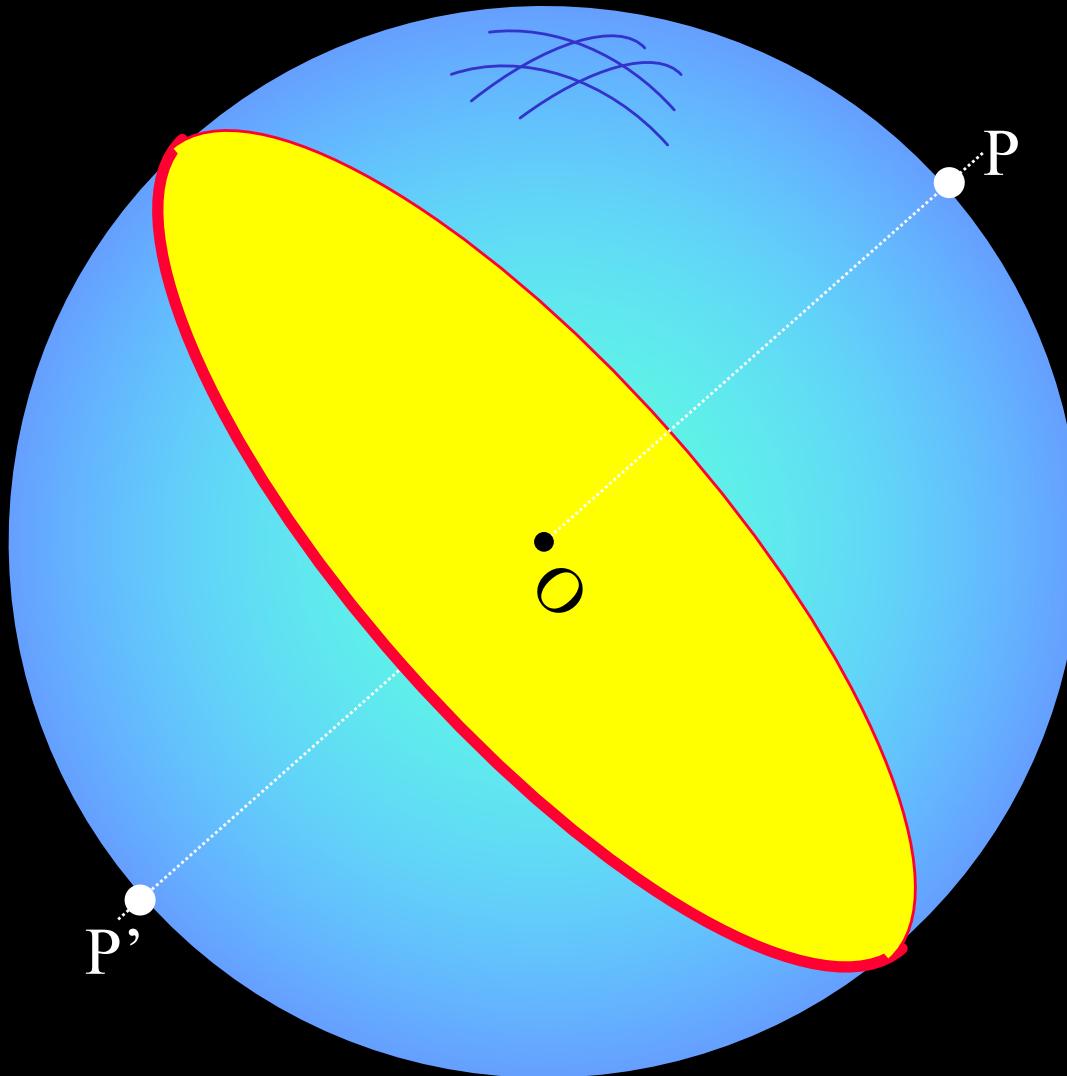


$$r = R \cdot \cos\theta$$

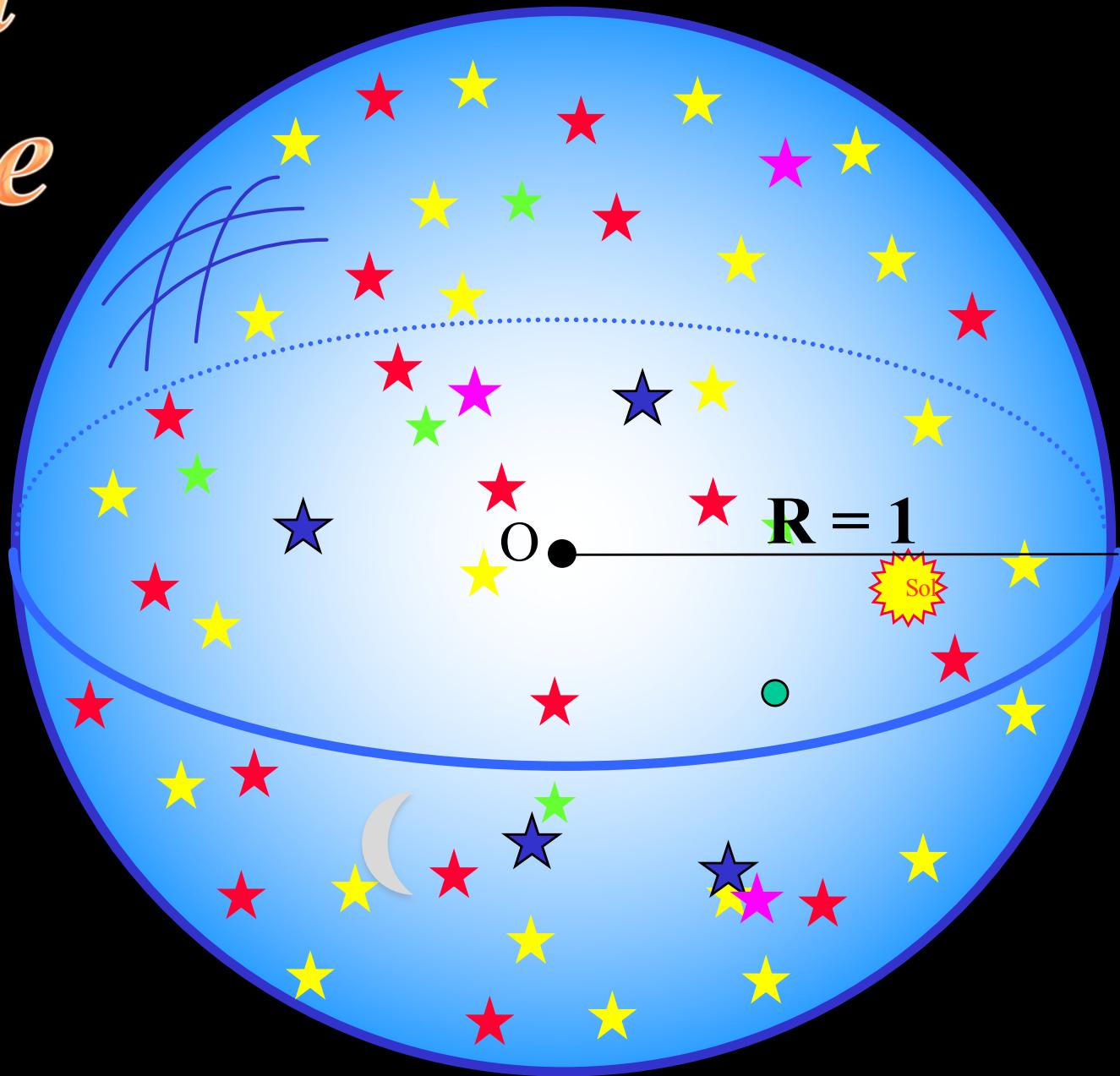
pólos de um grande círculo



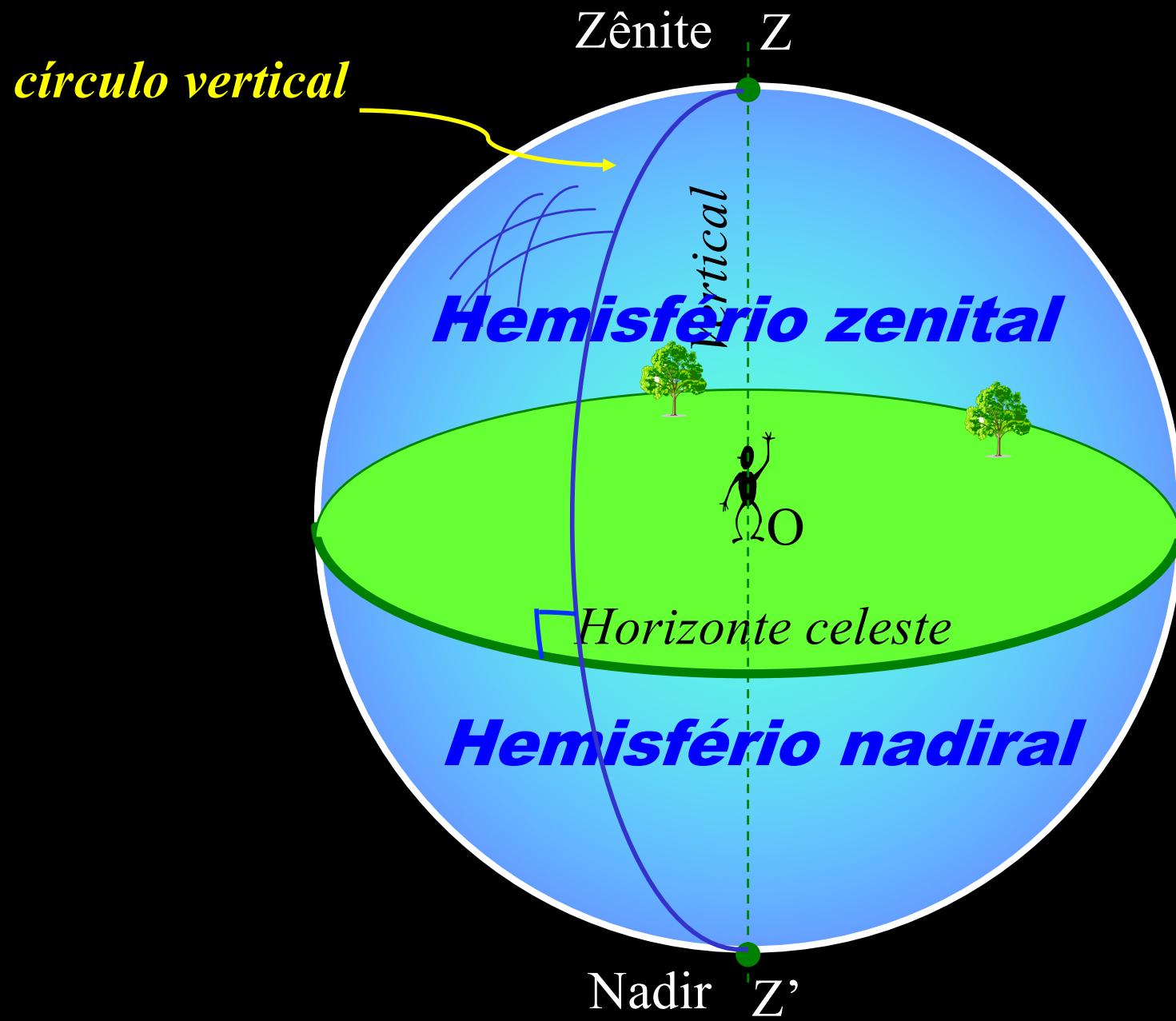
pólos de um grande círculo



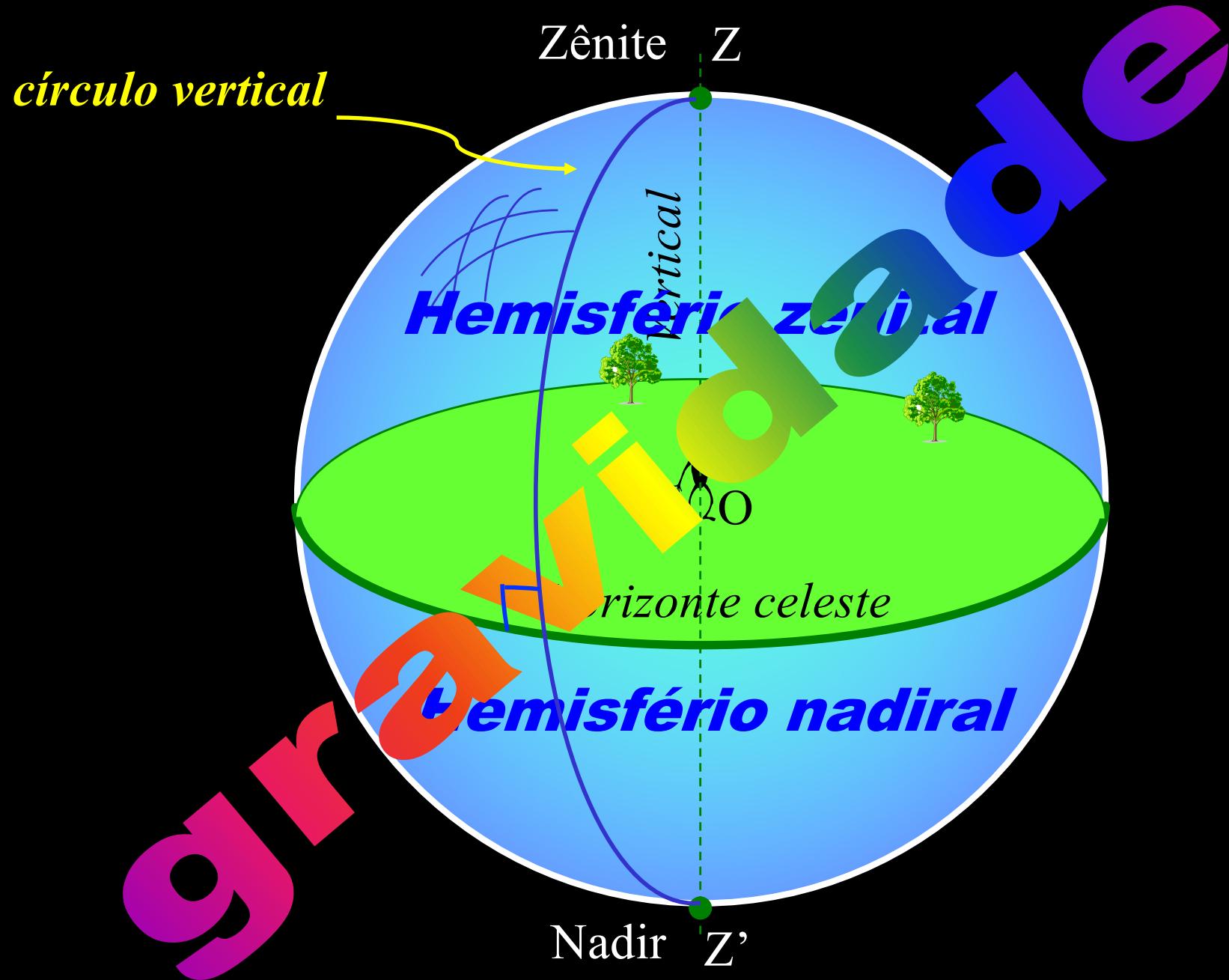
Esfera Celeste



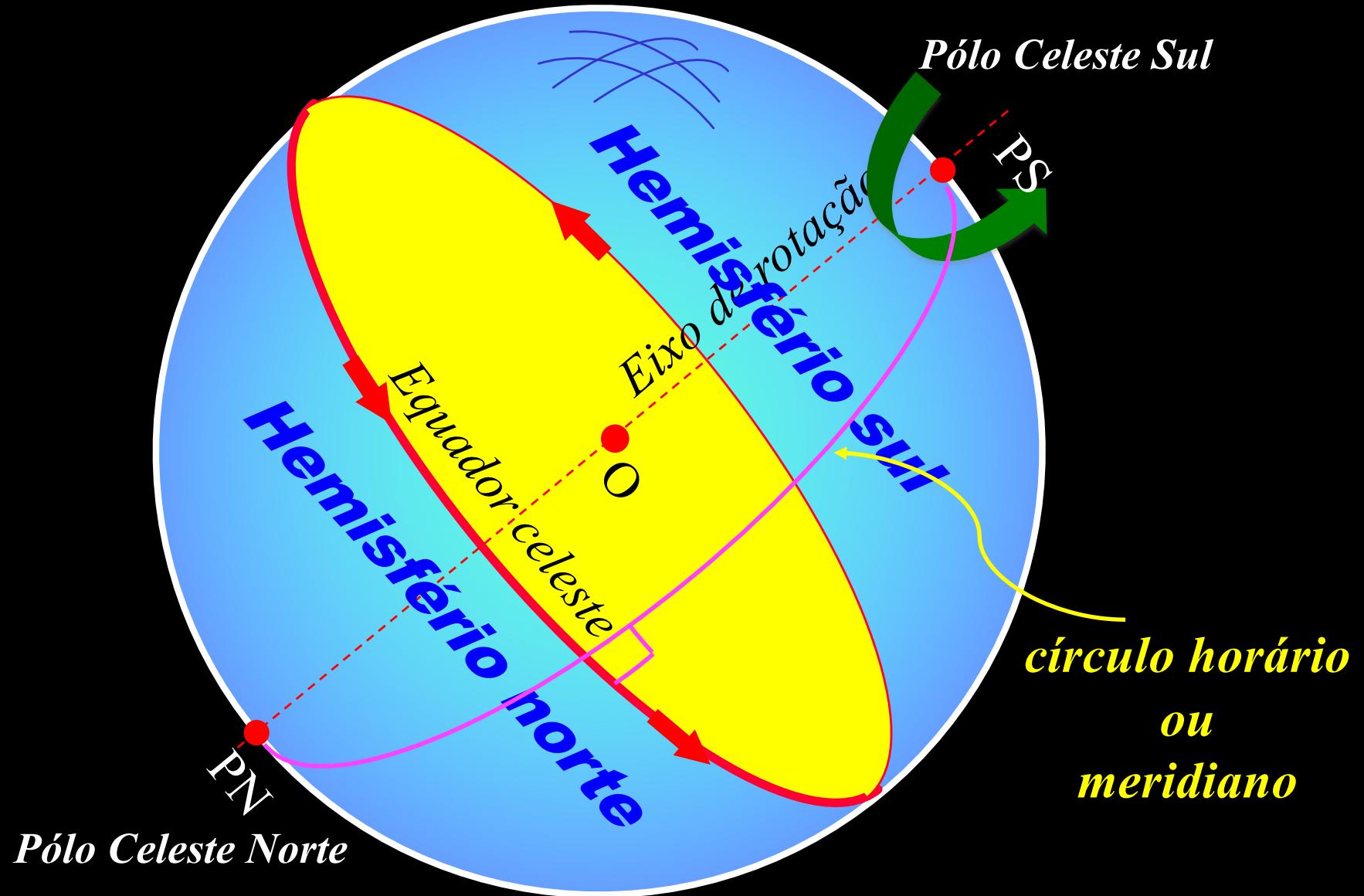
elementos da esfera celeste



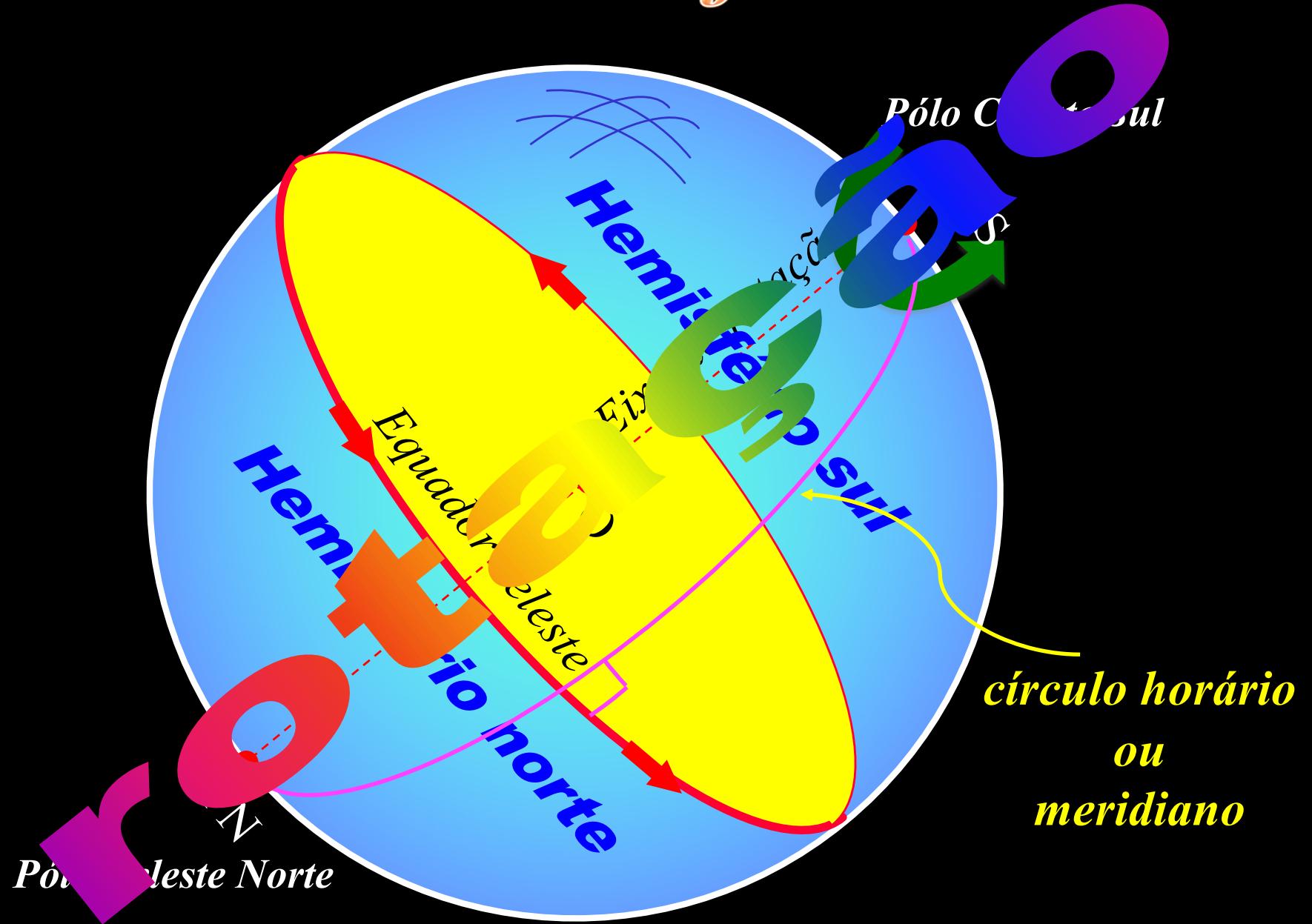
elementos da esfera celeste



elementos da esfera celeste



elementos da esfera celeste



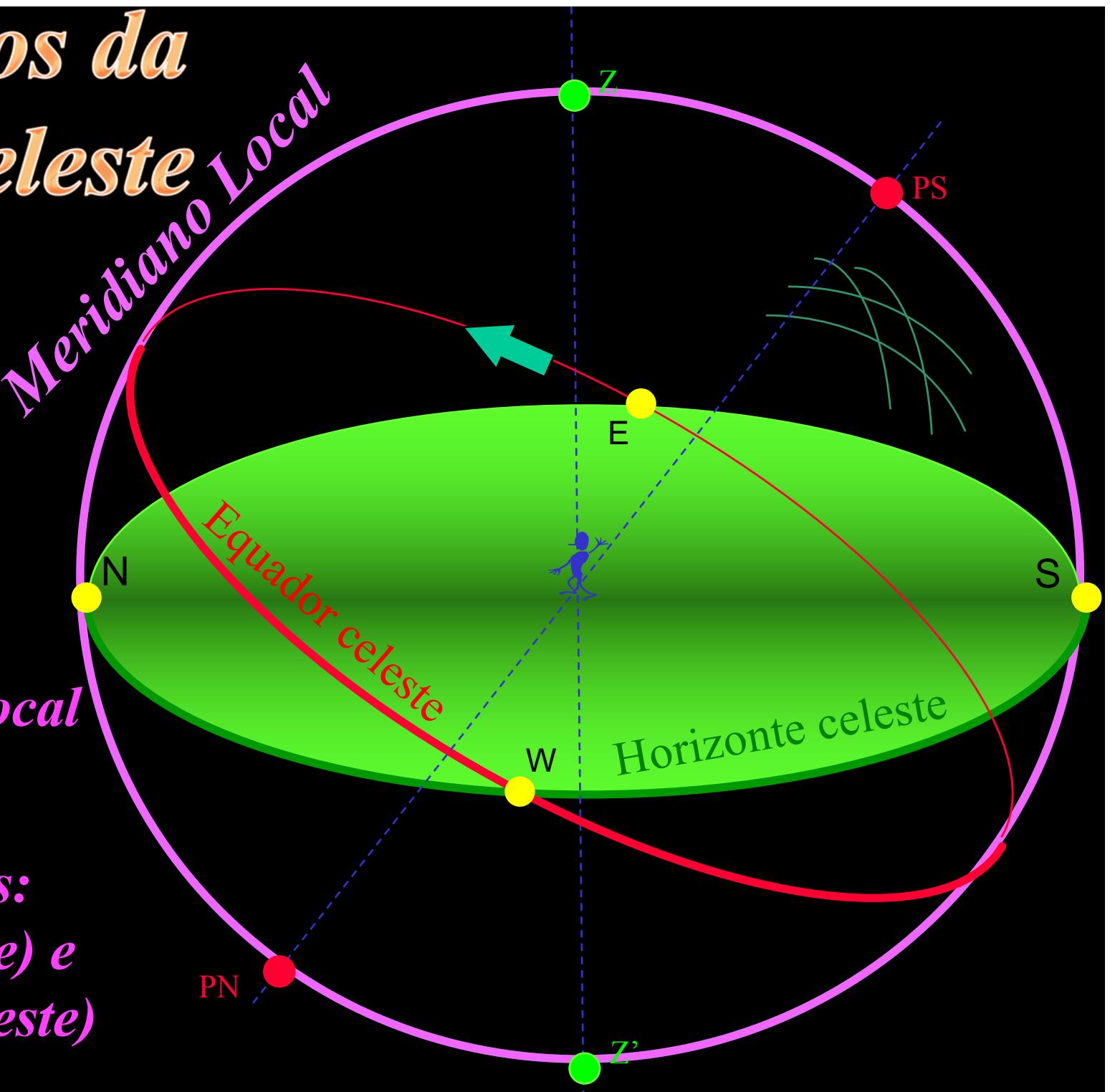
elementos da esfera celeste

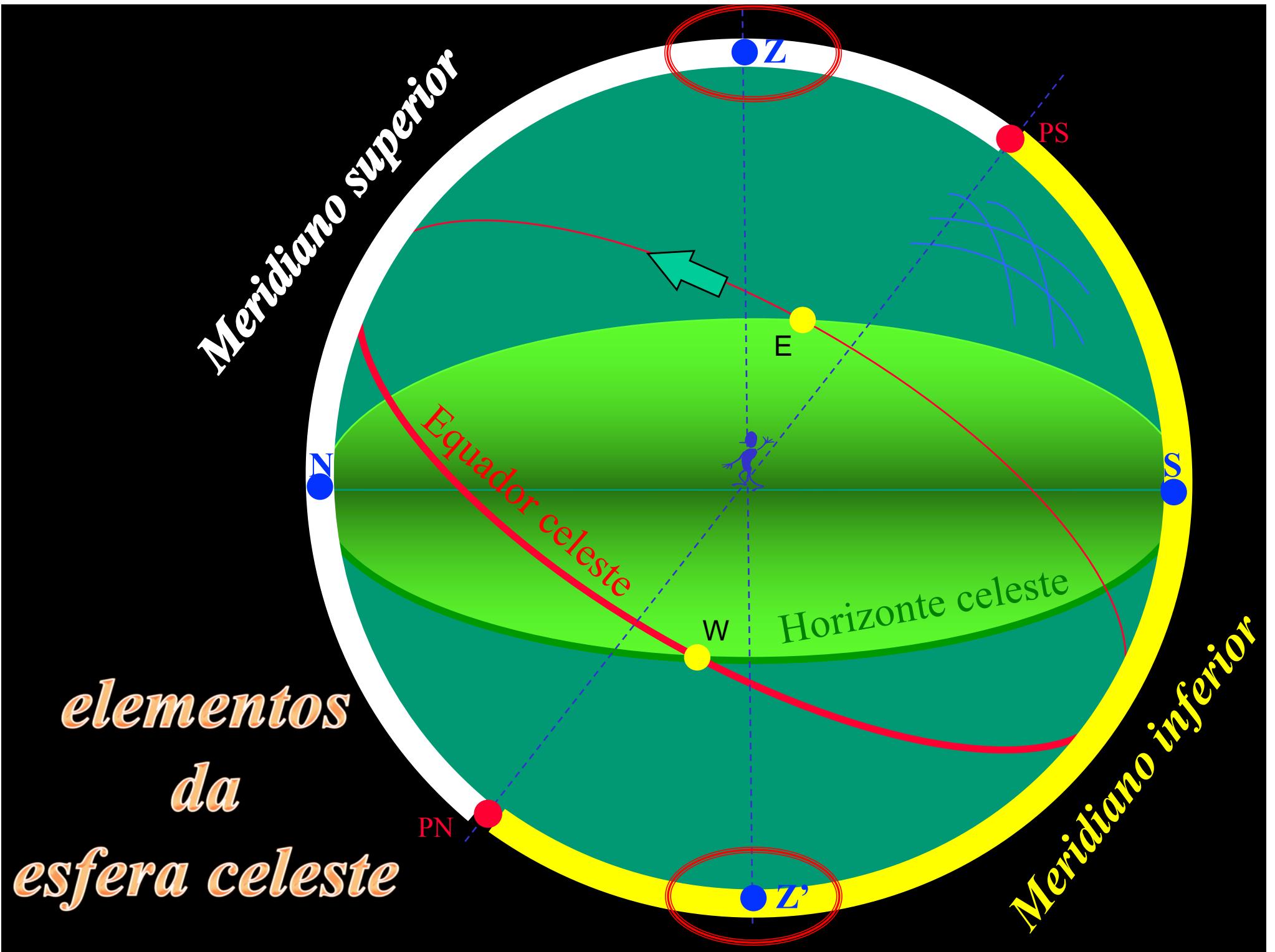
Meridiano Local

Meridiano Local

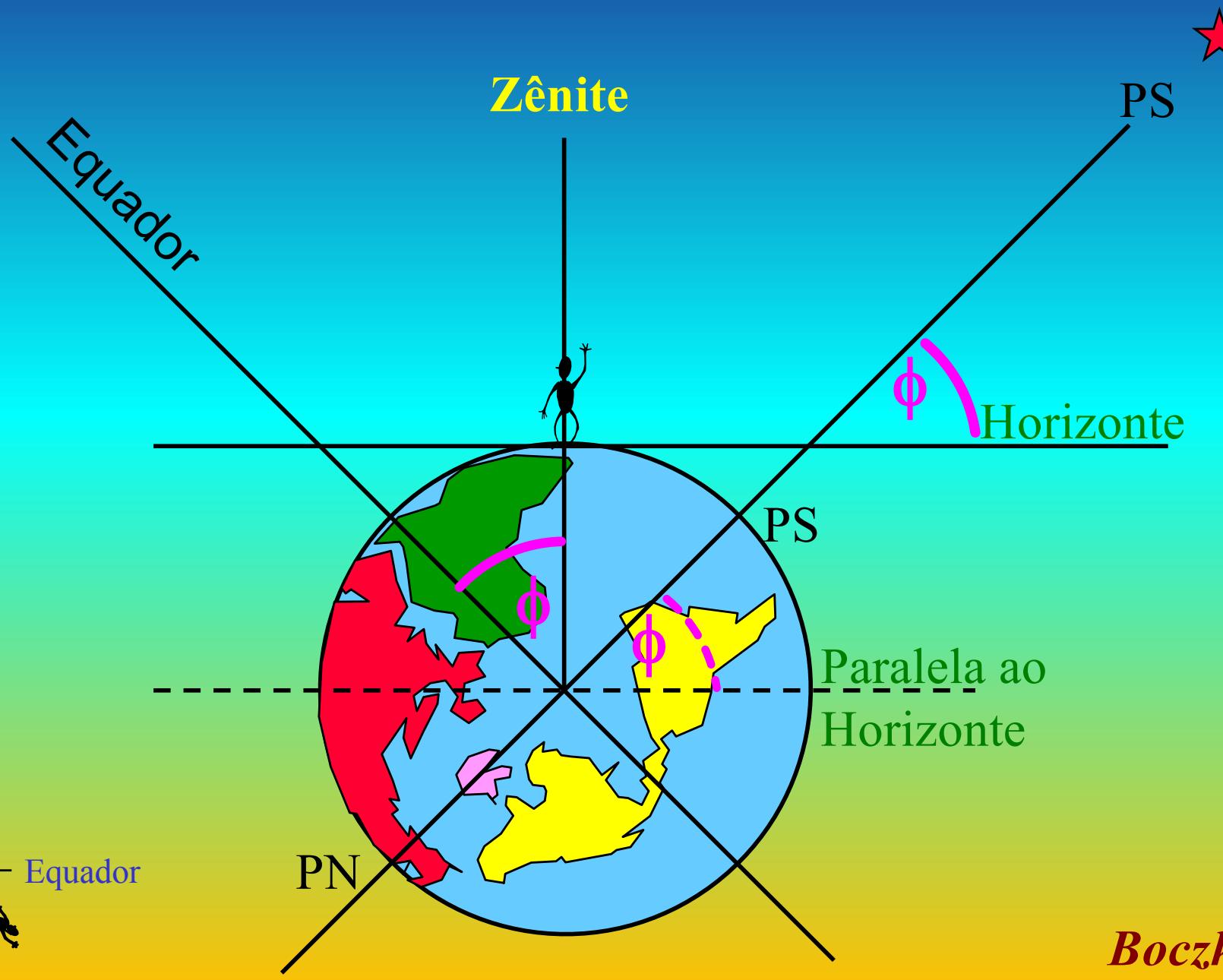


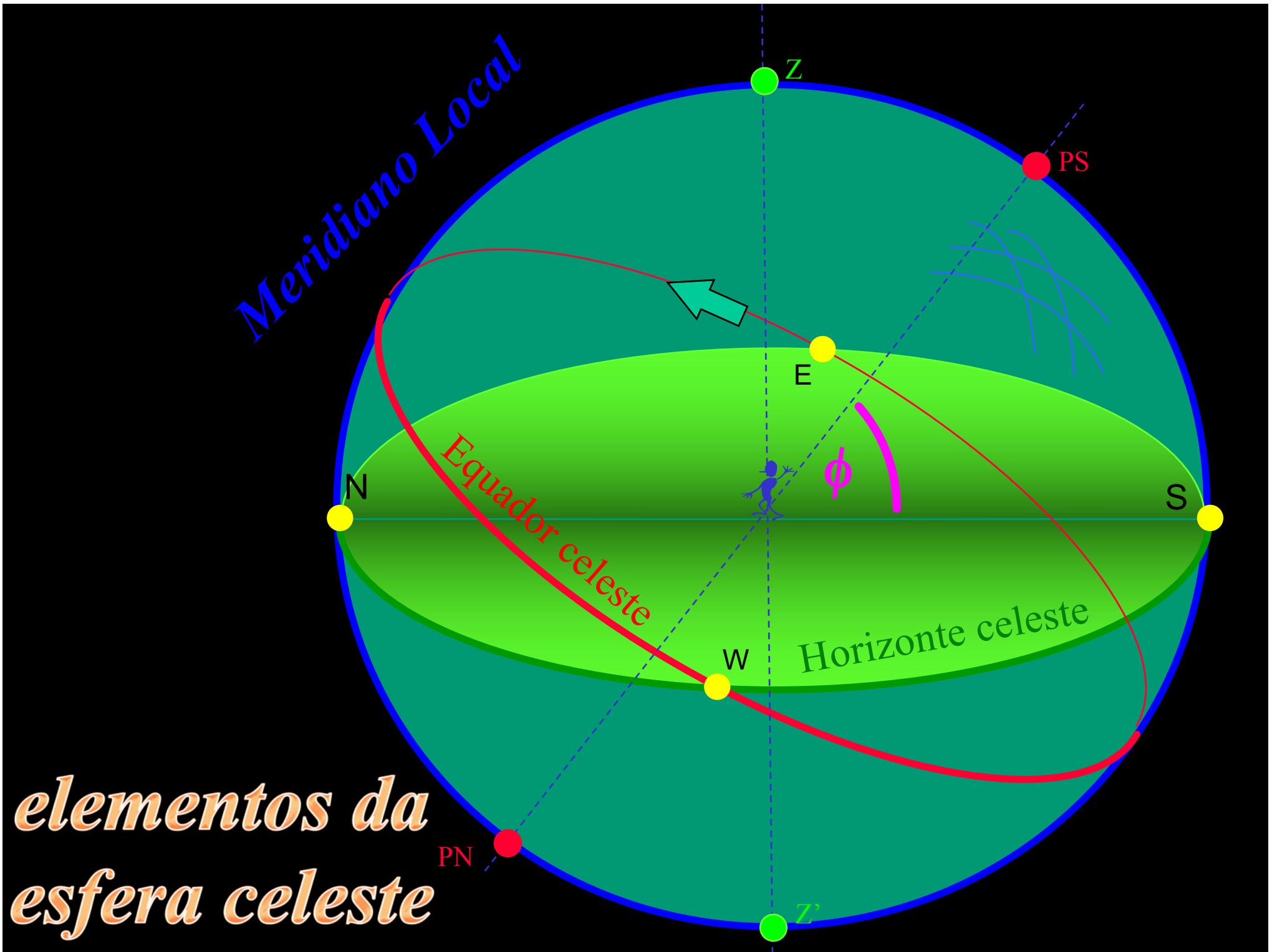
*hemisférios:
oriental (leste) e
occidental (oeste)*





latitude astronômica ou geográfica



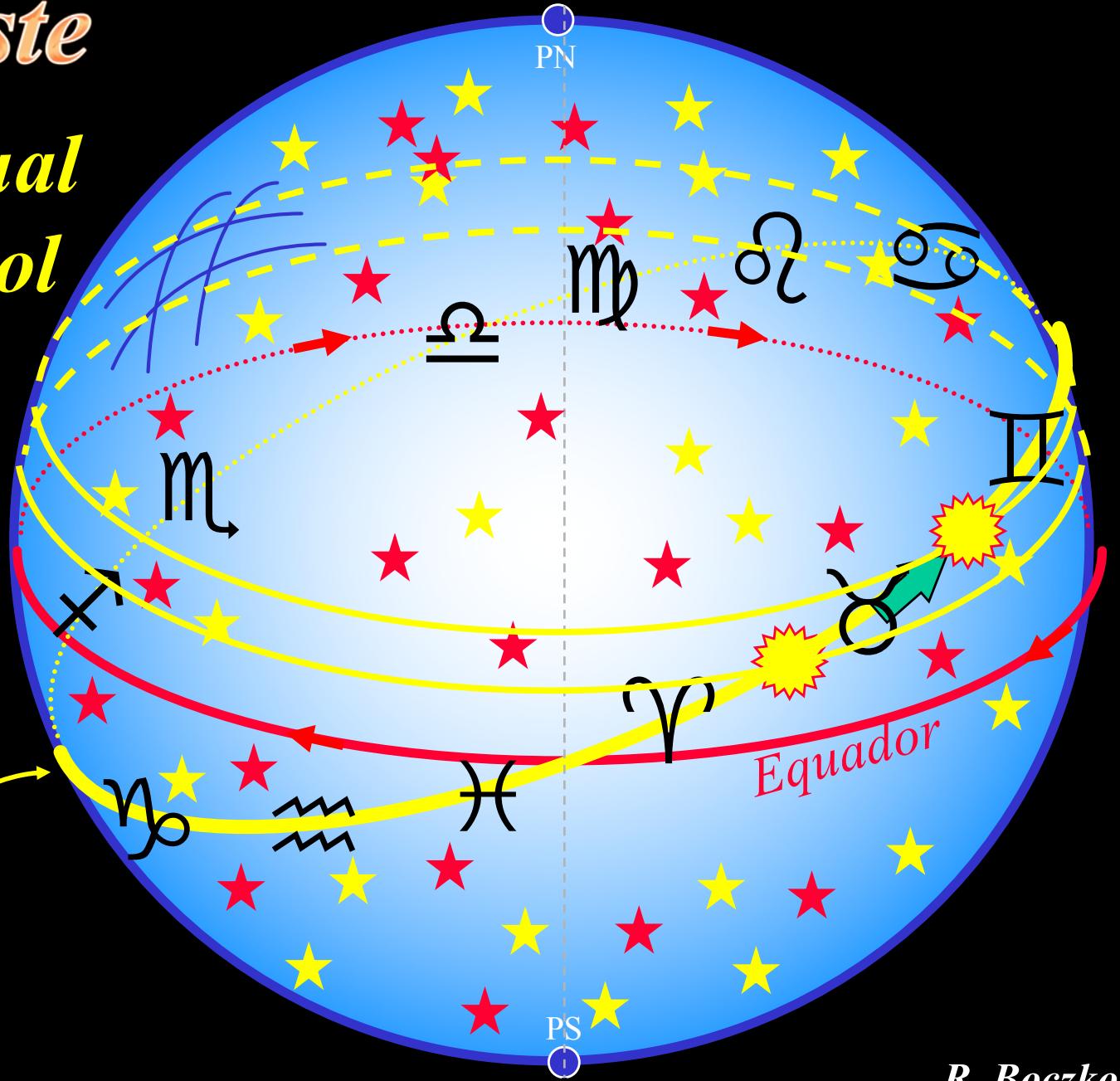


*elementos da
esfera celeste*

*movimento anual
aparente do Sol*

eclíptica

*Eixo de
rotação*



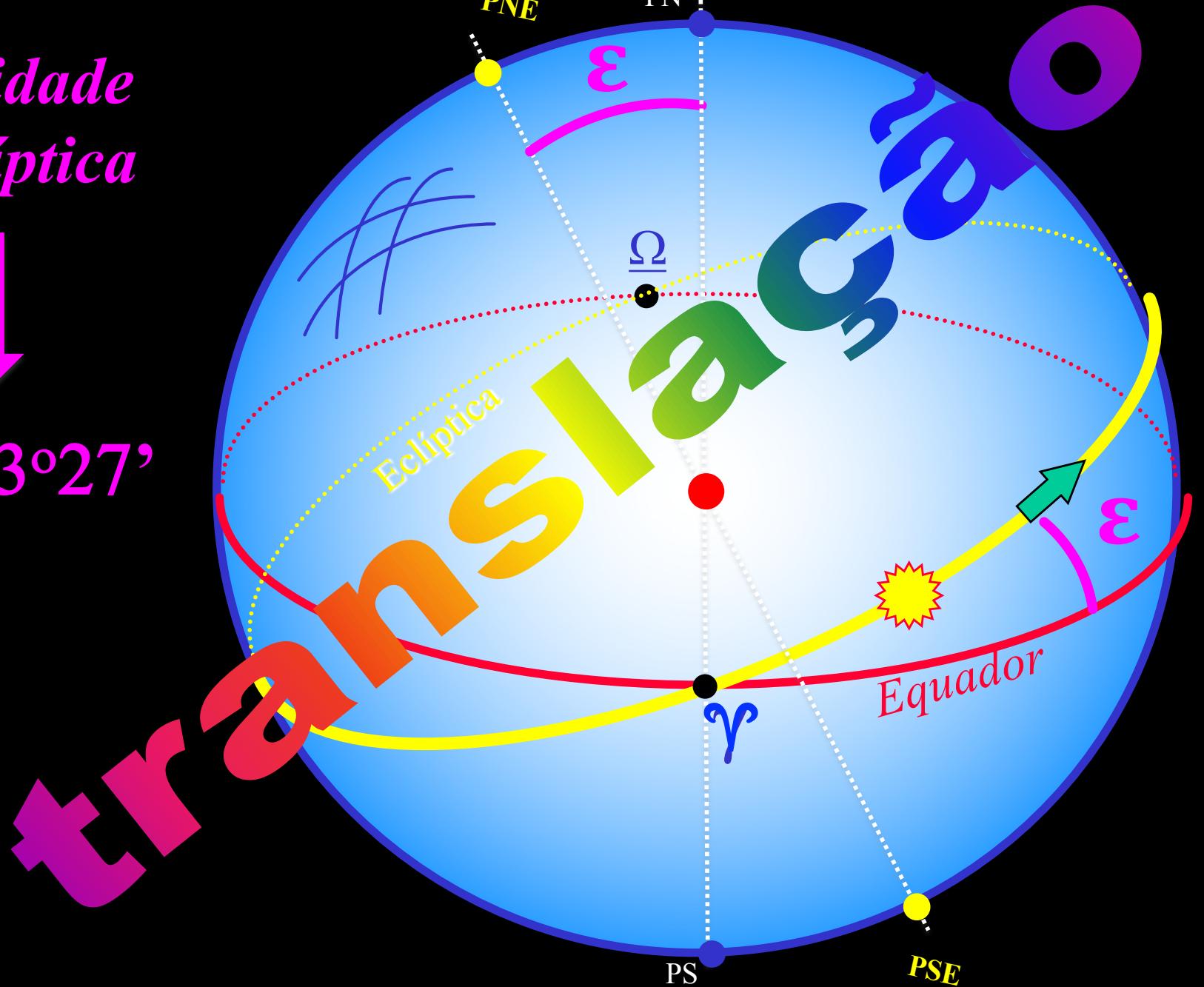
R. Boczko

elementos da esfera celeste

*obliquidade
da eclíptica*

$$\downarrow$$

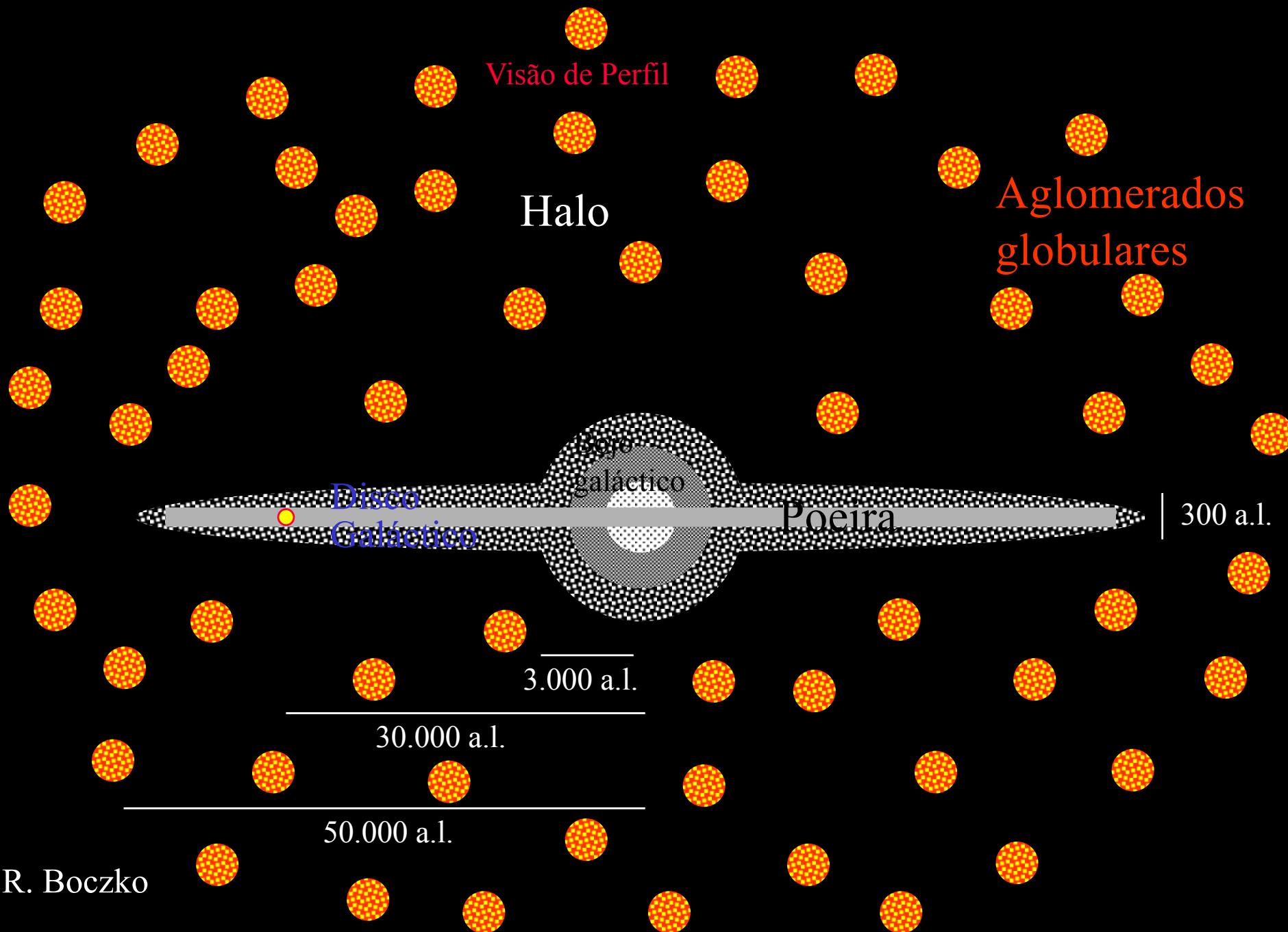
$\varepsilon \sim 23^\circ 27'$



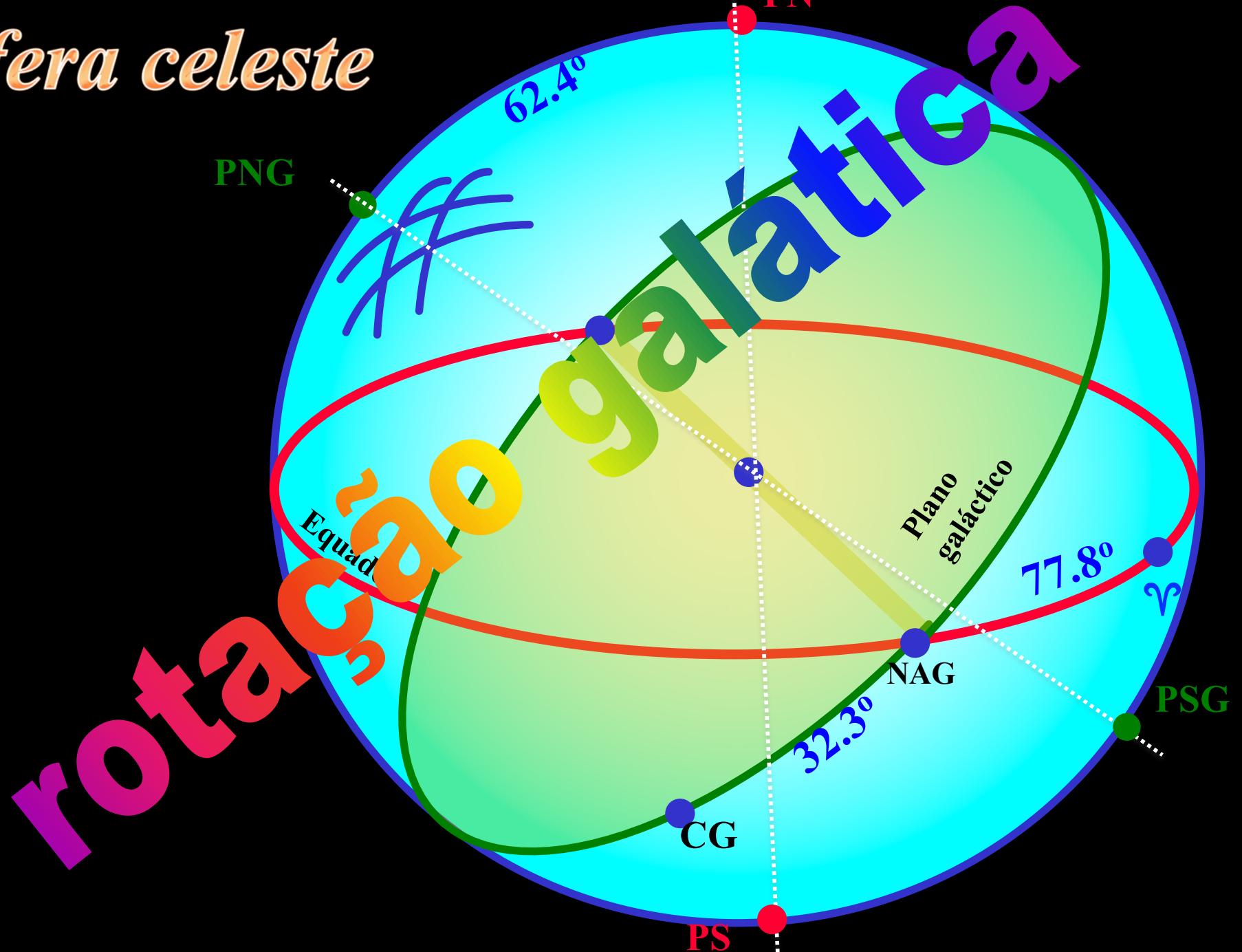
Via Láctea



Nossa Galáxia



*elementos da
esfera celeste*



F I M