

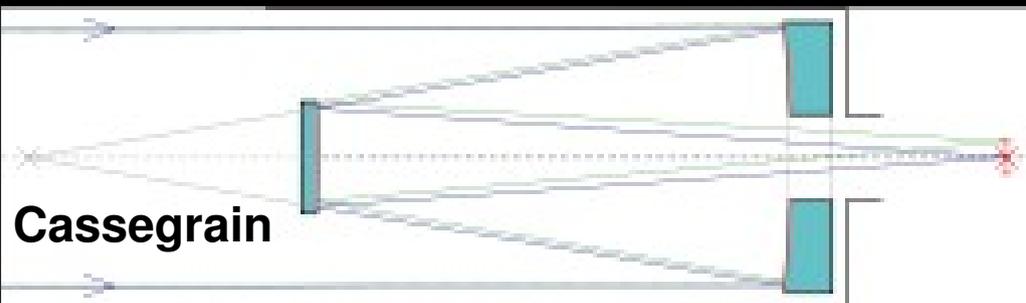
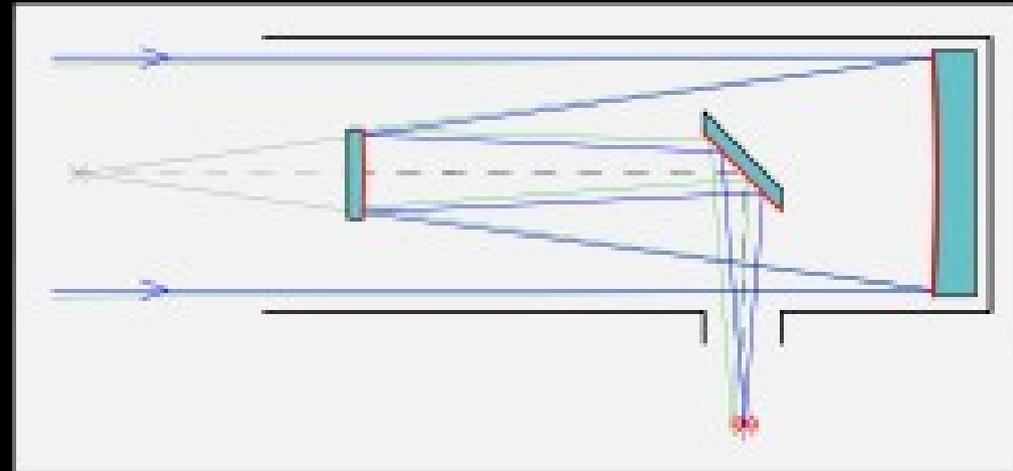
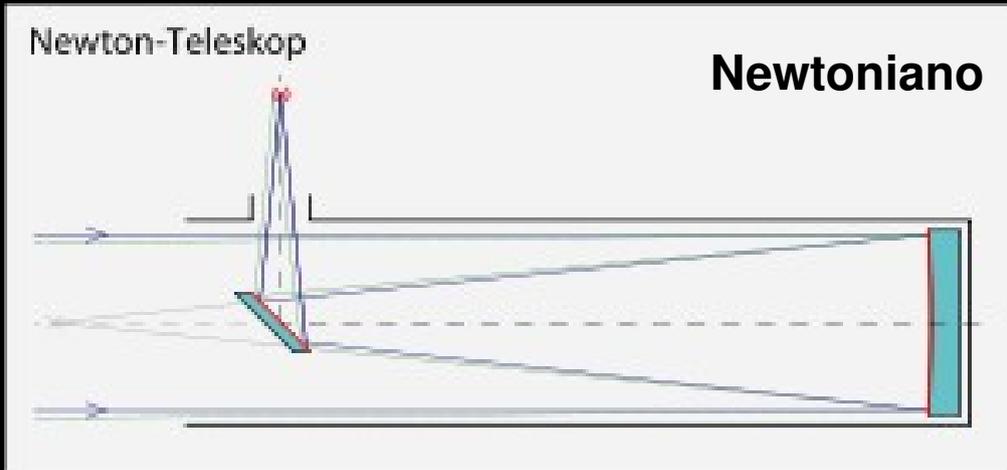
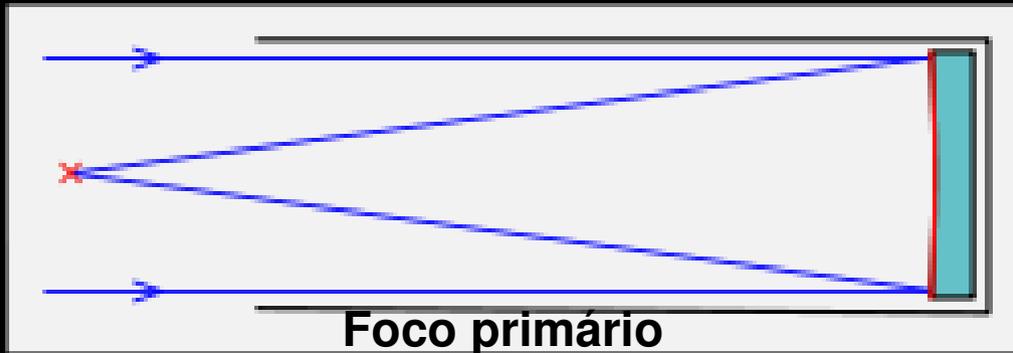
Telescópios



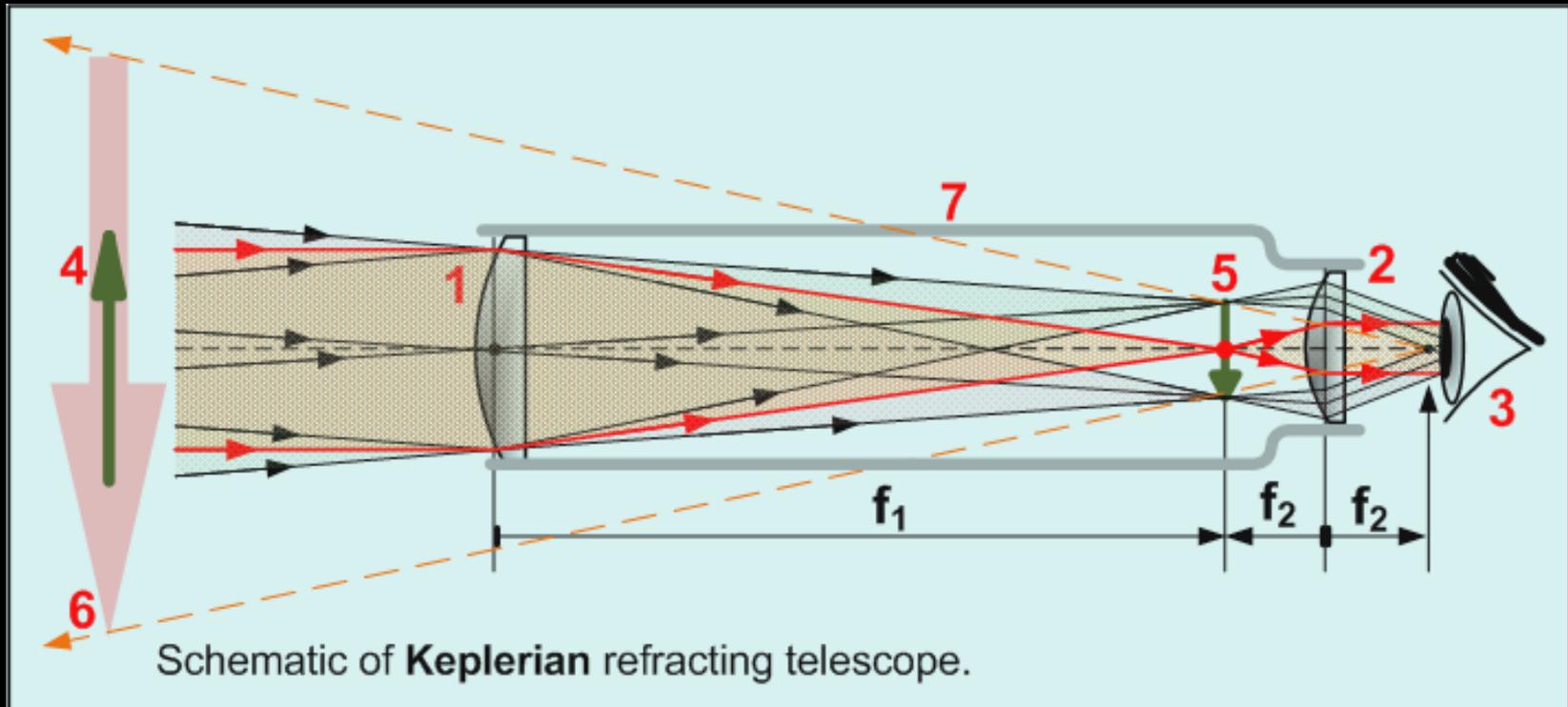
Fabrizio Ferrari

Unipampa, Bagé

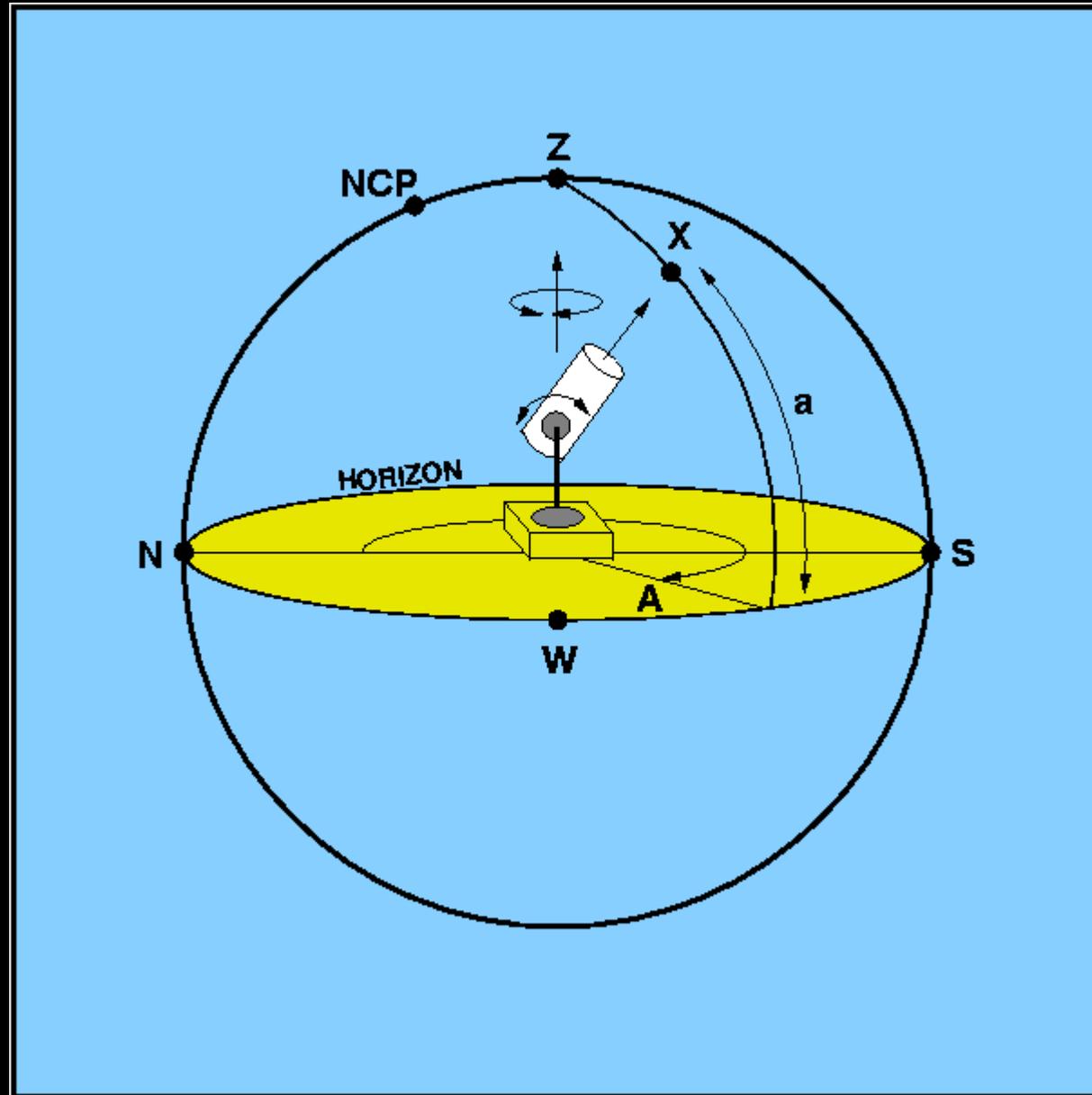
Telescópios Refletores (espelhos)



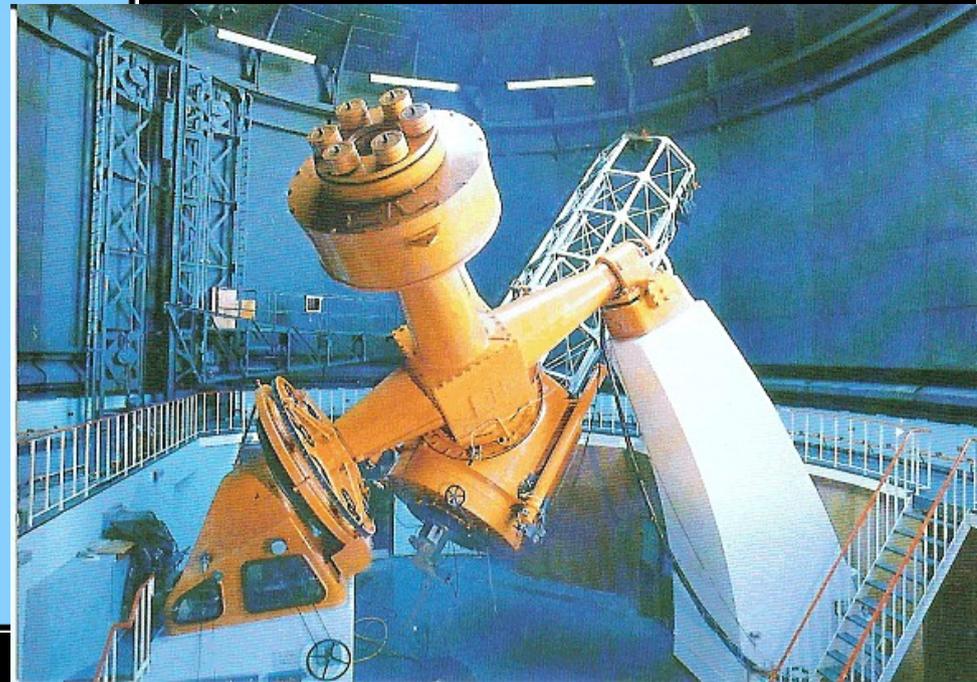
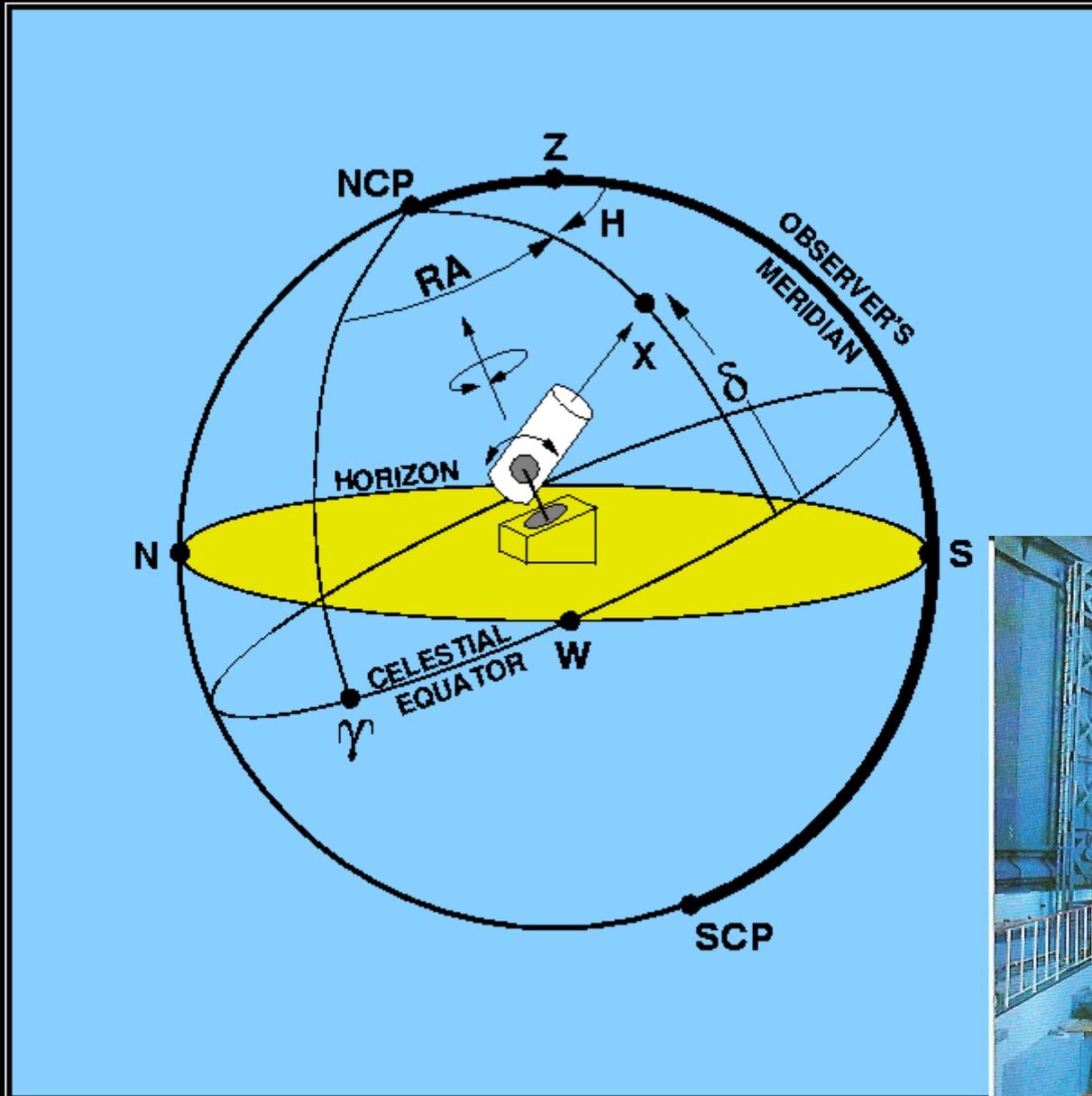
Telescópios Refratores (lentes)



Montagem alt-azimutal



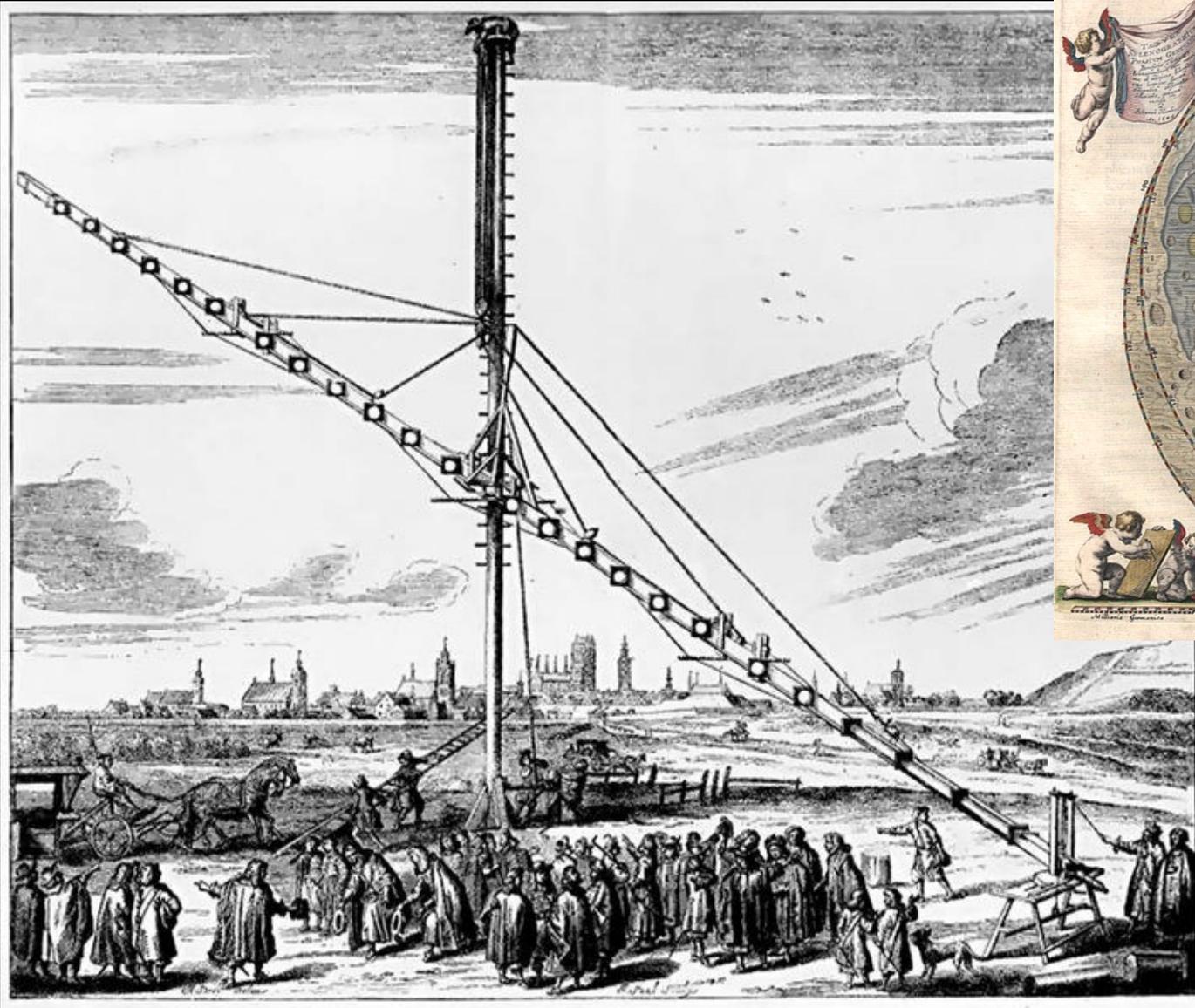
Montagem Equatorial



Galileu
1609



Johannes Hevelius



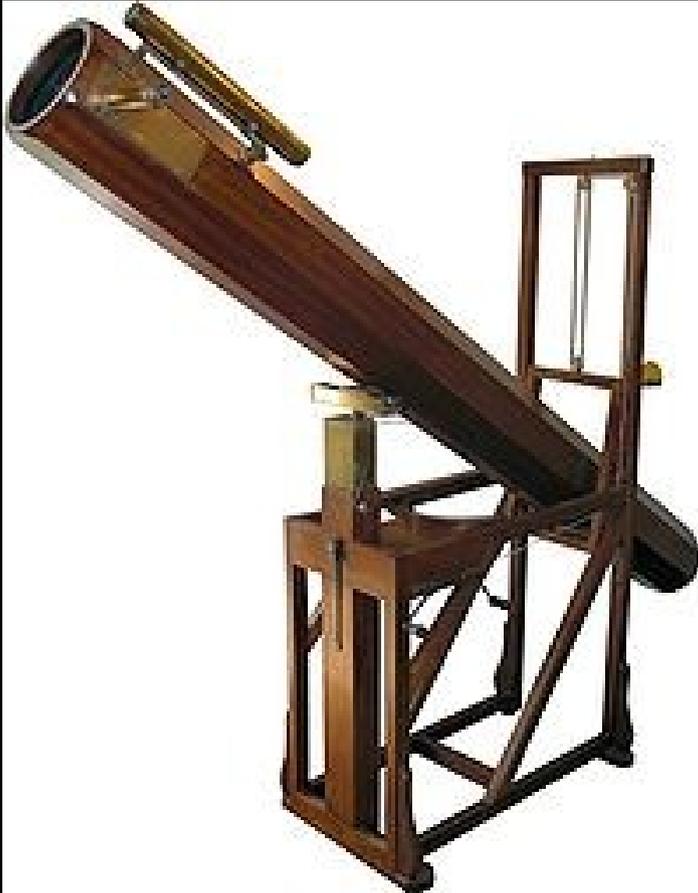
1673

Isaac Newton



1672

William Herschel

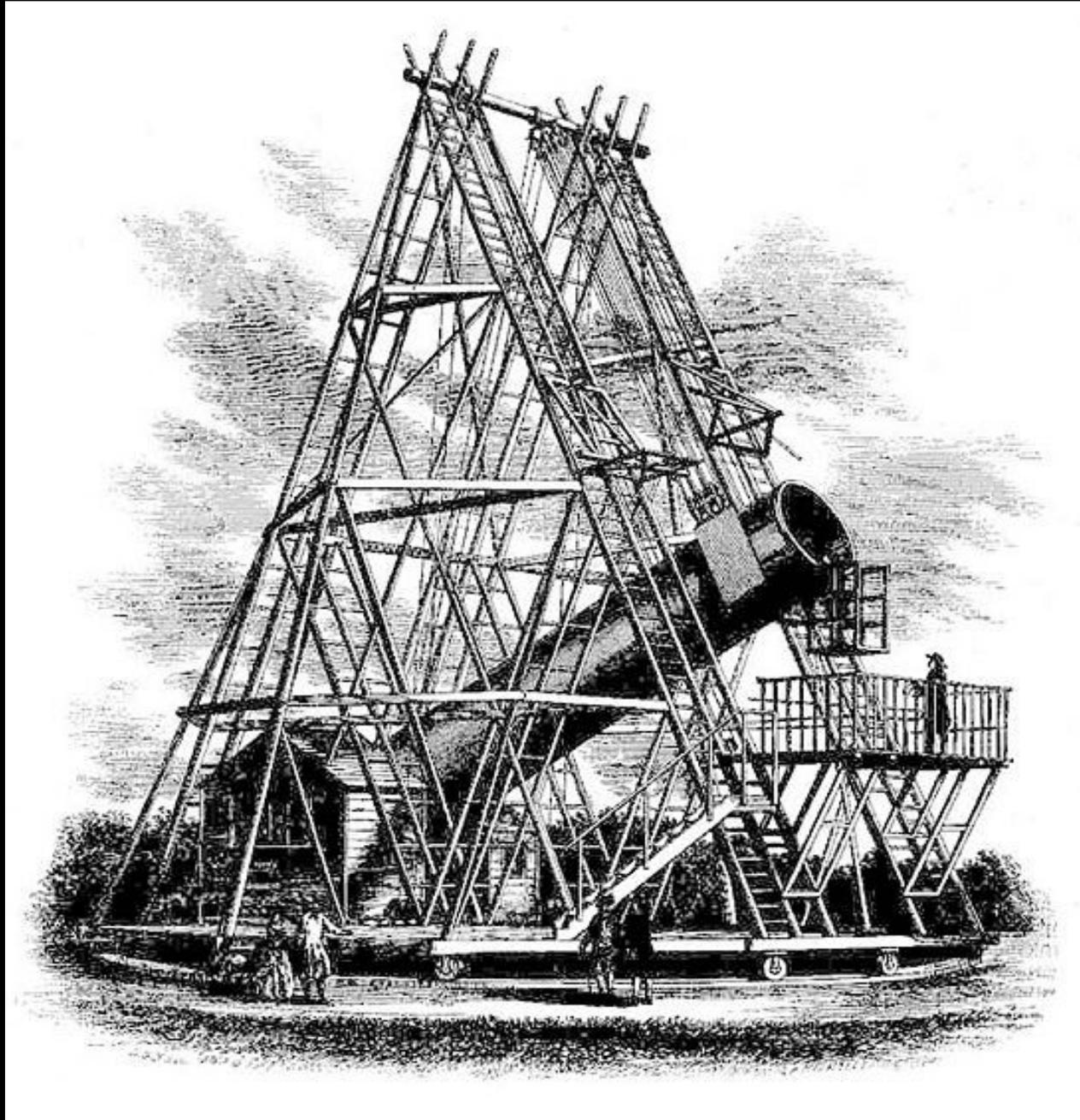


Mais de 400 telescópios

Descoberta de Urano

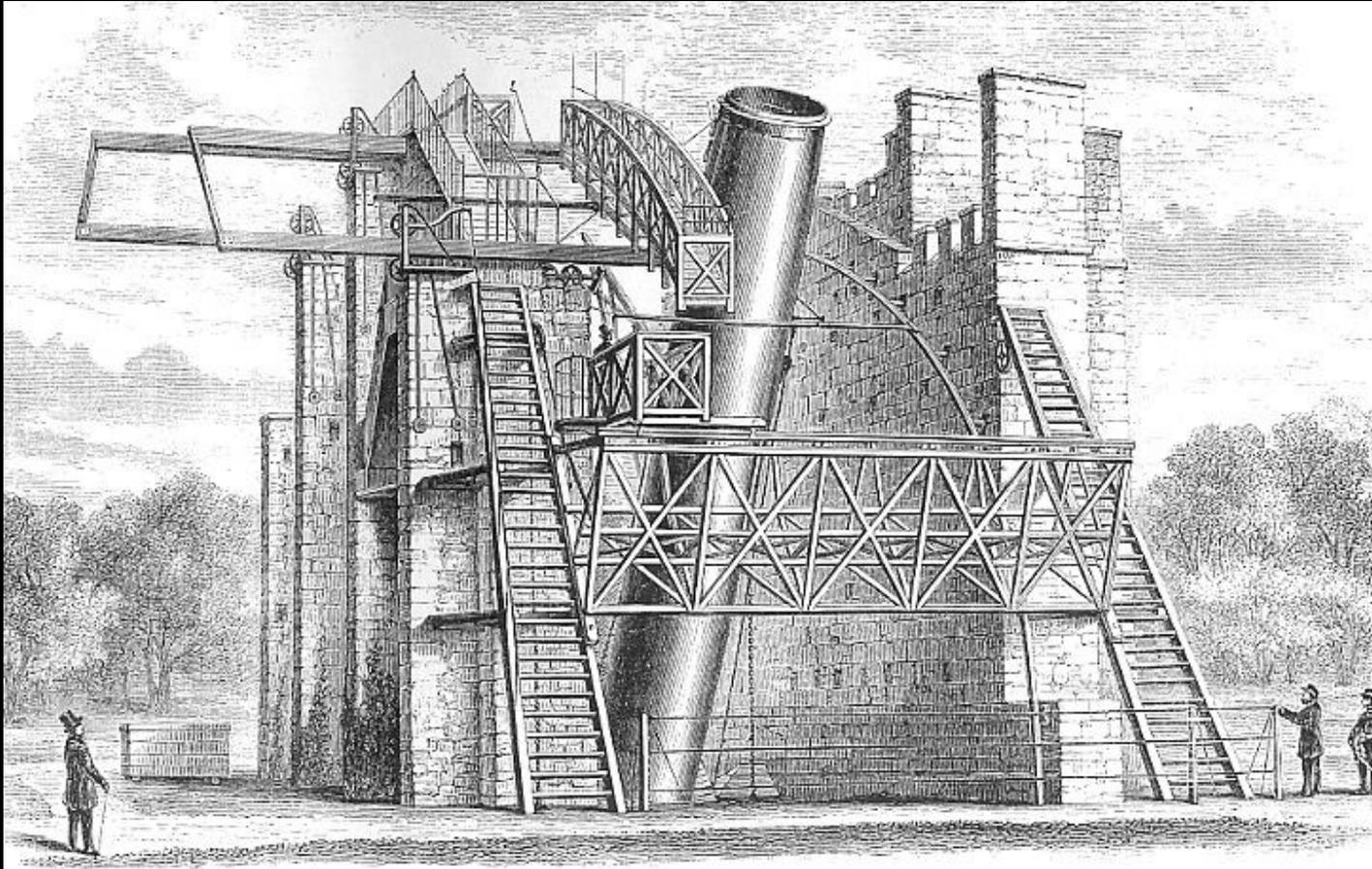


William Herschel Telescópio de 40" (1m) 1785



Leviathan of Parsonstown

William Parsons 1845



Maior telescópio de 1845 até 1917

Estrutura espiral das
“nebulosas” (M51)



Mount Wilson Observatory

Los Angeles

100" = 2.54 m

1927





Monte Palomar, CA, 1948



Monte Palomar, CA, 1948

Telescópio Espacial Hubble HST

2.4 m

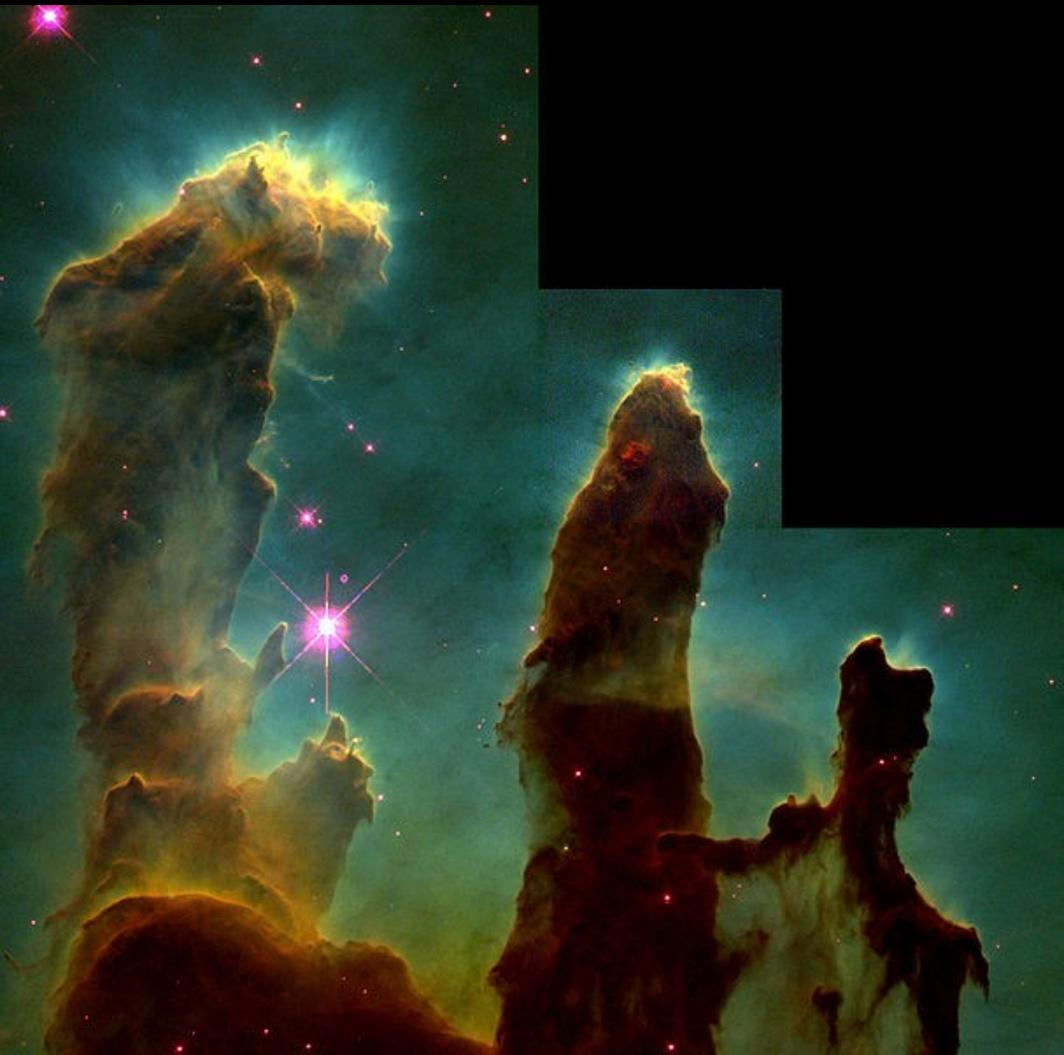


Orbit height	559 km
Orbit period	96–97 minutes
Orbit velocity	7,500 m/s
US\$ 5 billion	

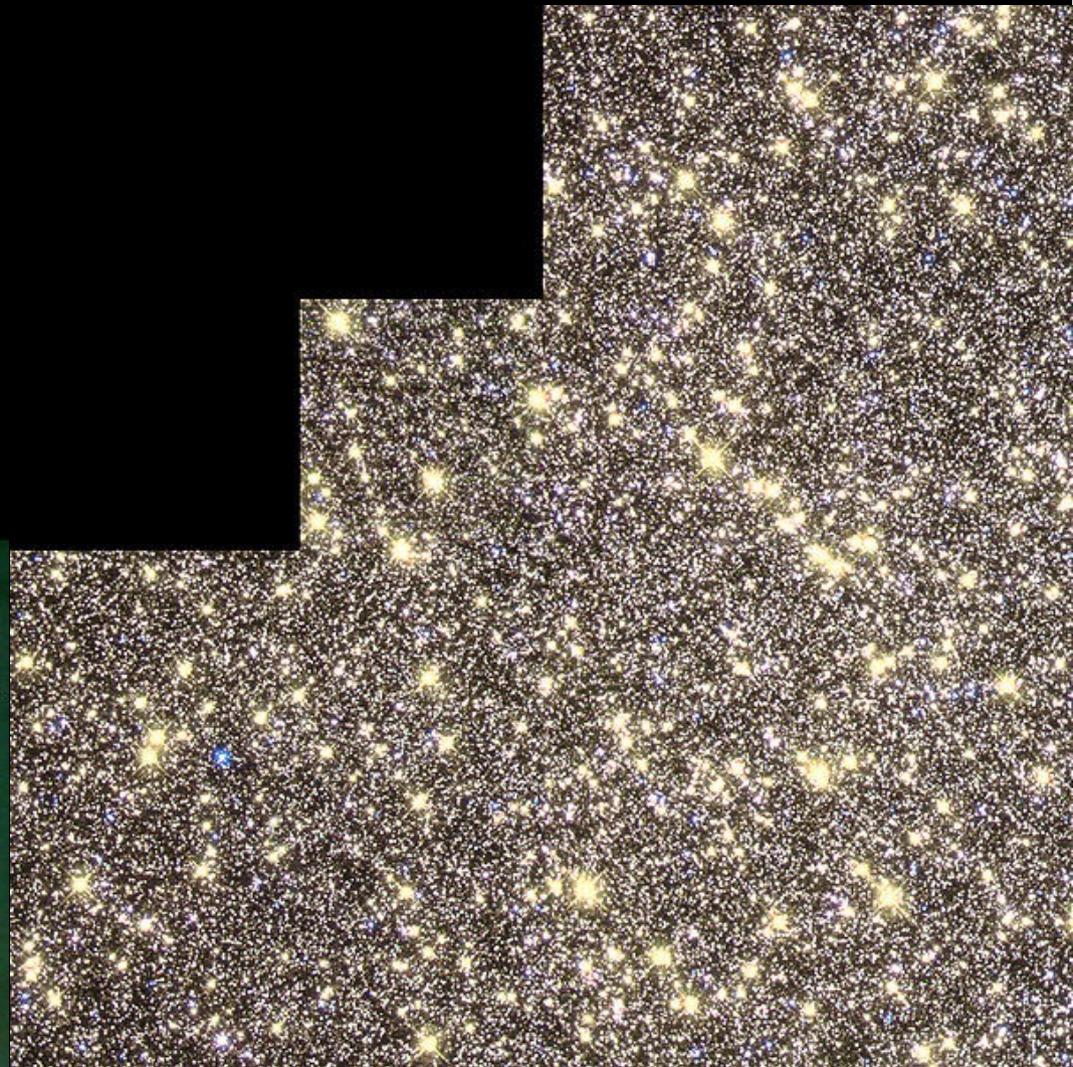


Imagens HST

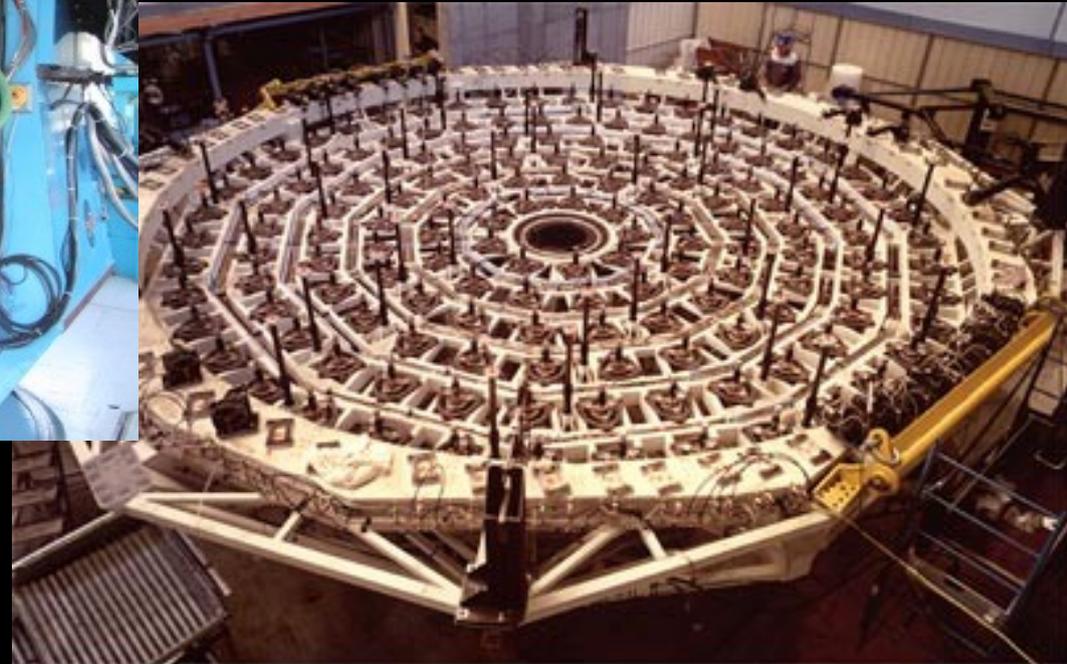
Nebulosa da Águia (HST)



Omega Centauri (HST)



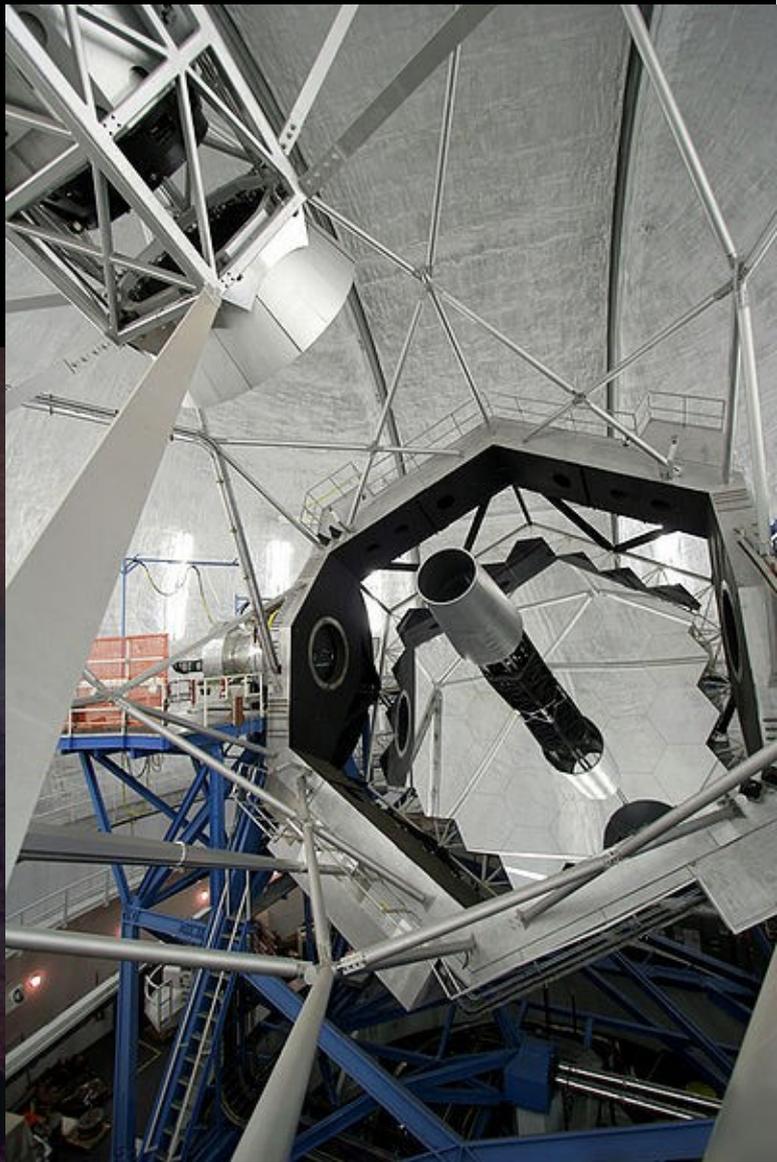
Ótica Ativa 1990...



Active Mirror Supports in VLT M1 Cell

Telescópios Keck

2x10m



VLT

ESO+Chile

4 x 8.2 m

~2000

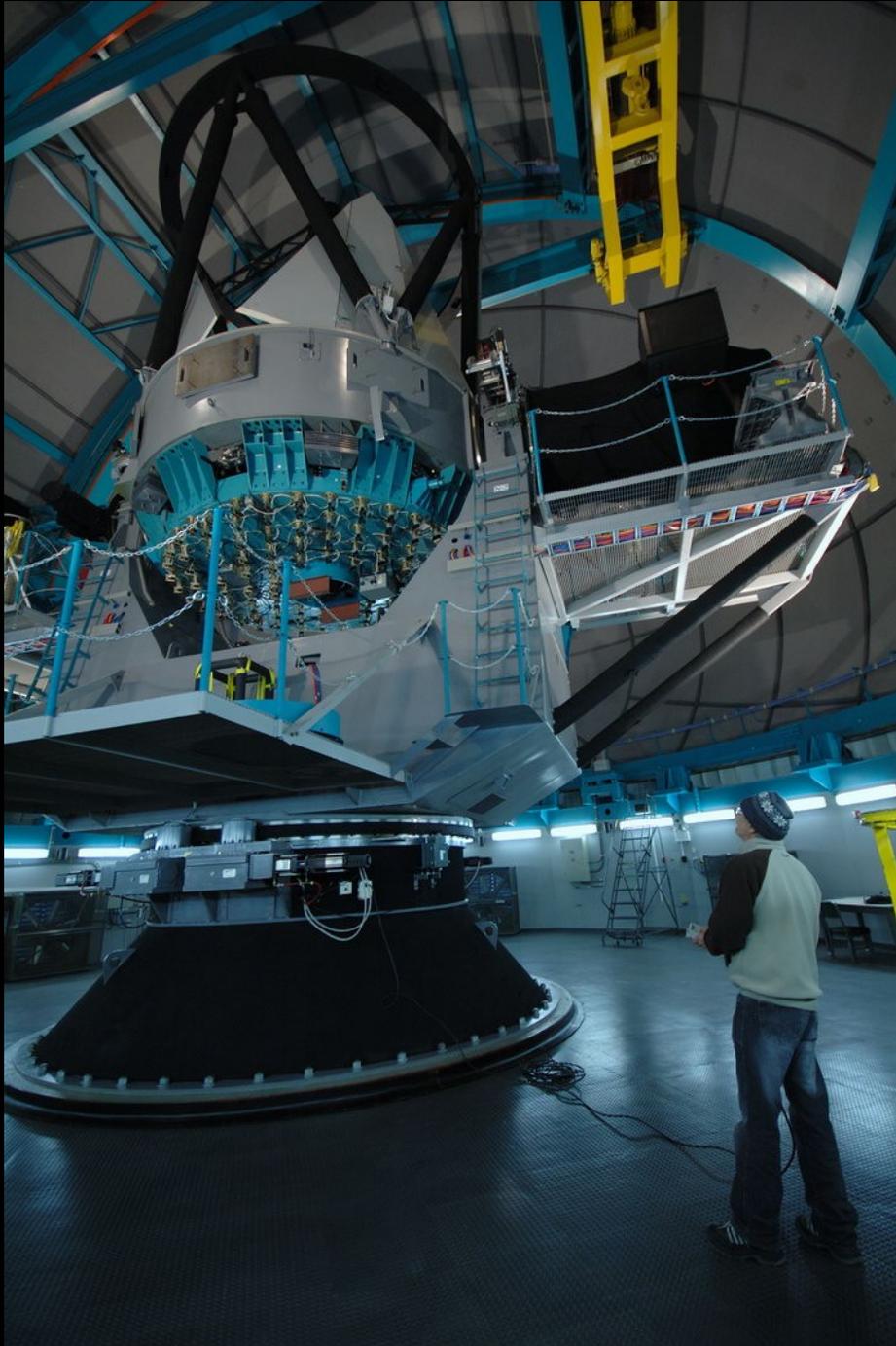


SOAR

Brazil, Chile, USA

2002





SOAR



Telescópios Gemini (Sul, Norte)

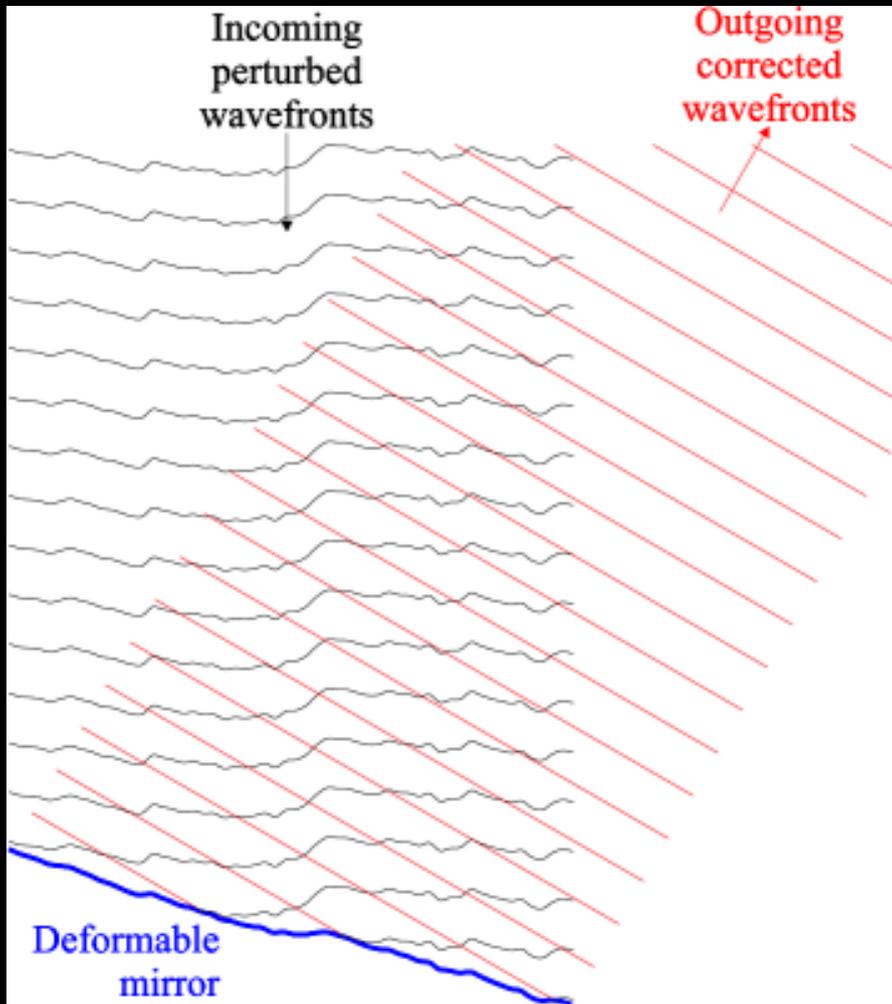
2 x 8m

USA, UK, Canada, Chile, Australia, Argentina, Brasil



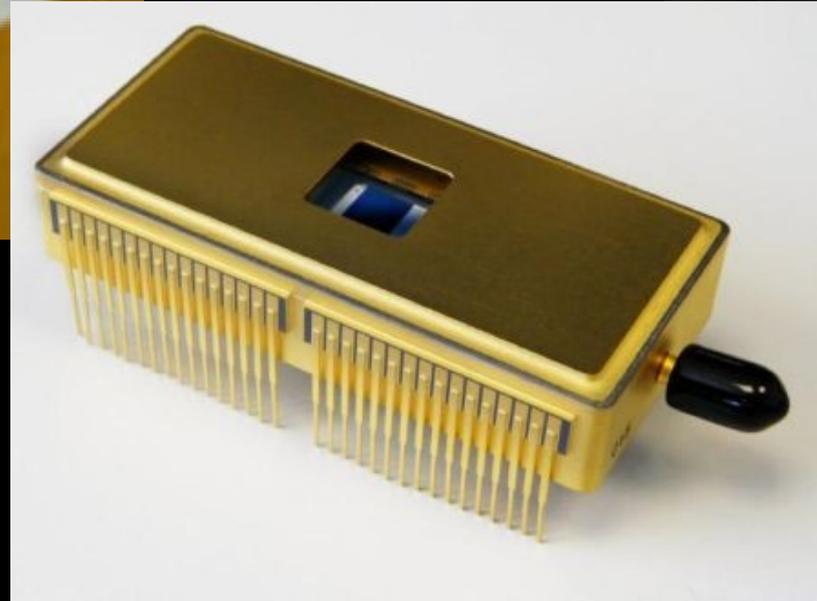
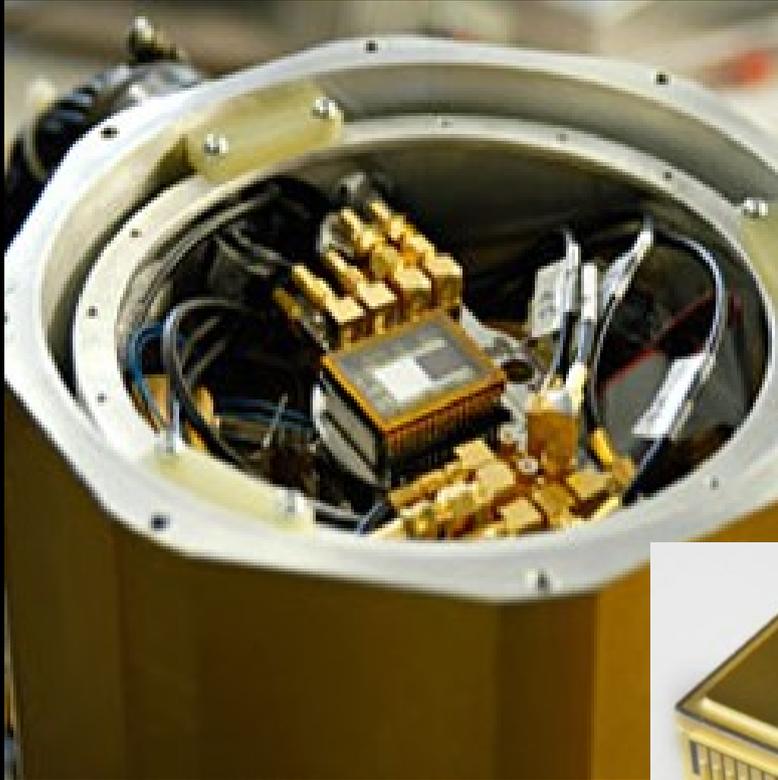
Ótica Adaptativa

2000...

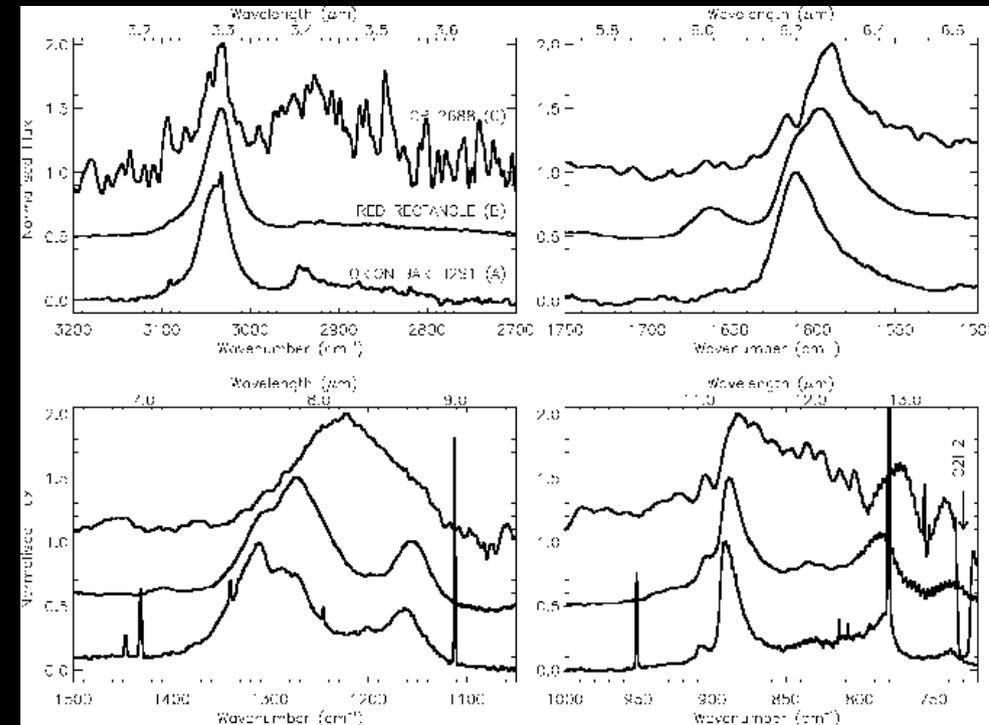
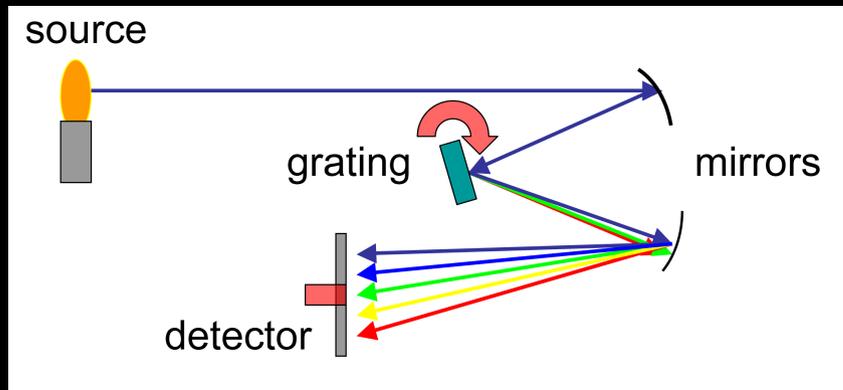


Instrumentos

Imageadores (cameras)

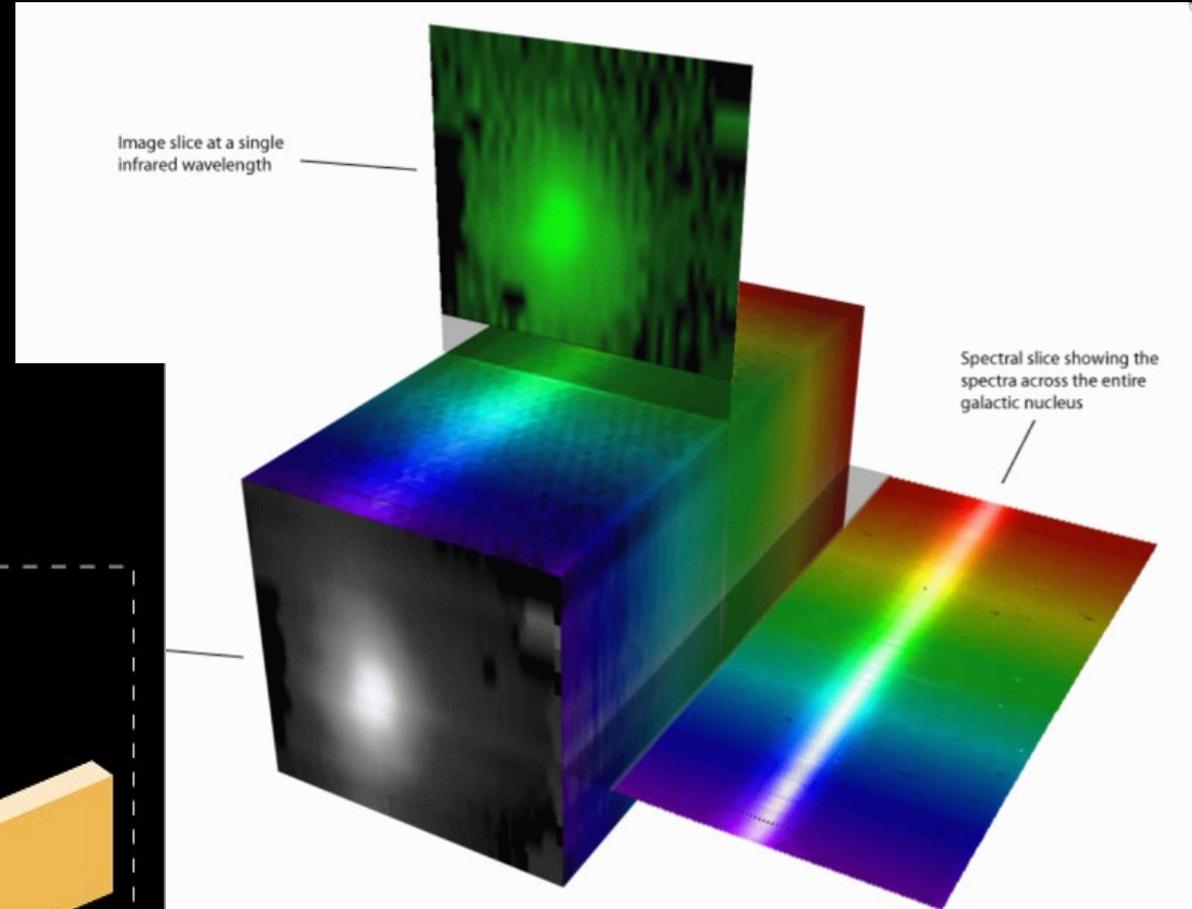
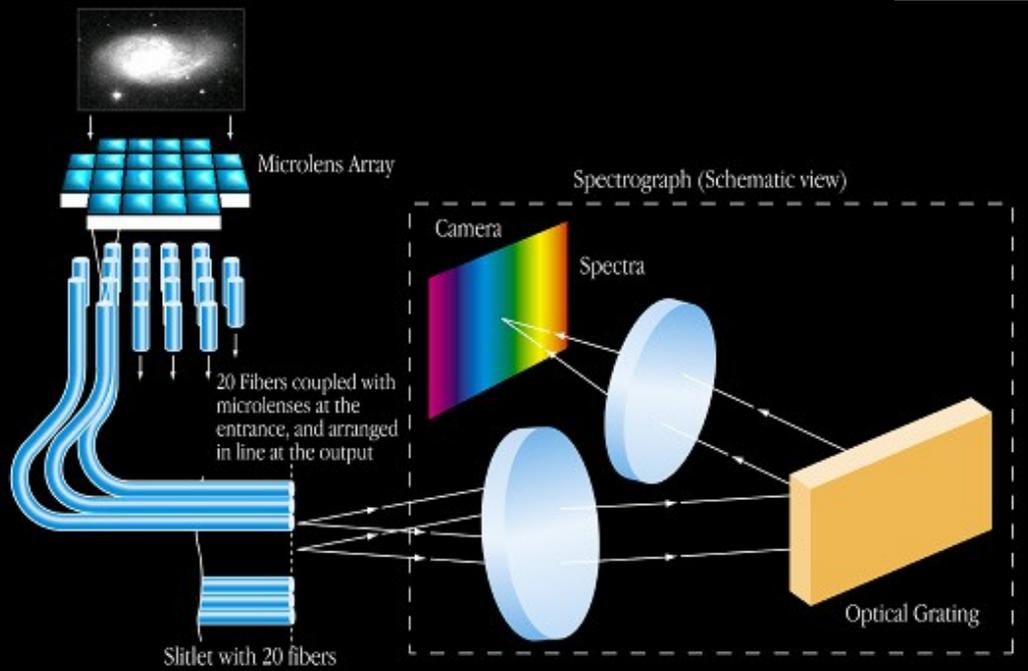


Instrumentos -- Espectrógrafo



Instrumentos – IFU

unidades de campo integral

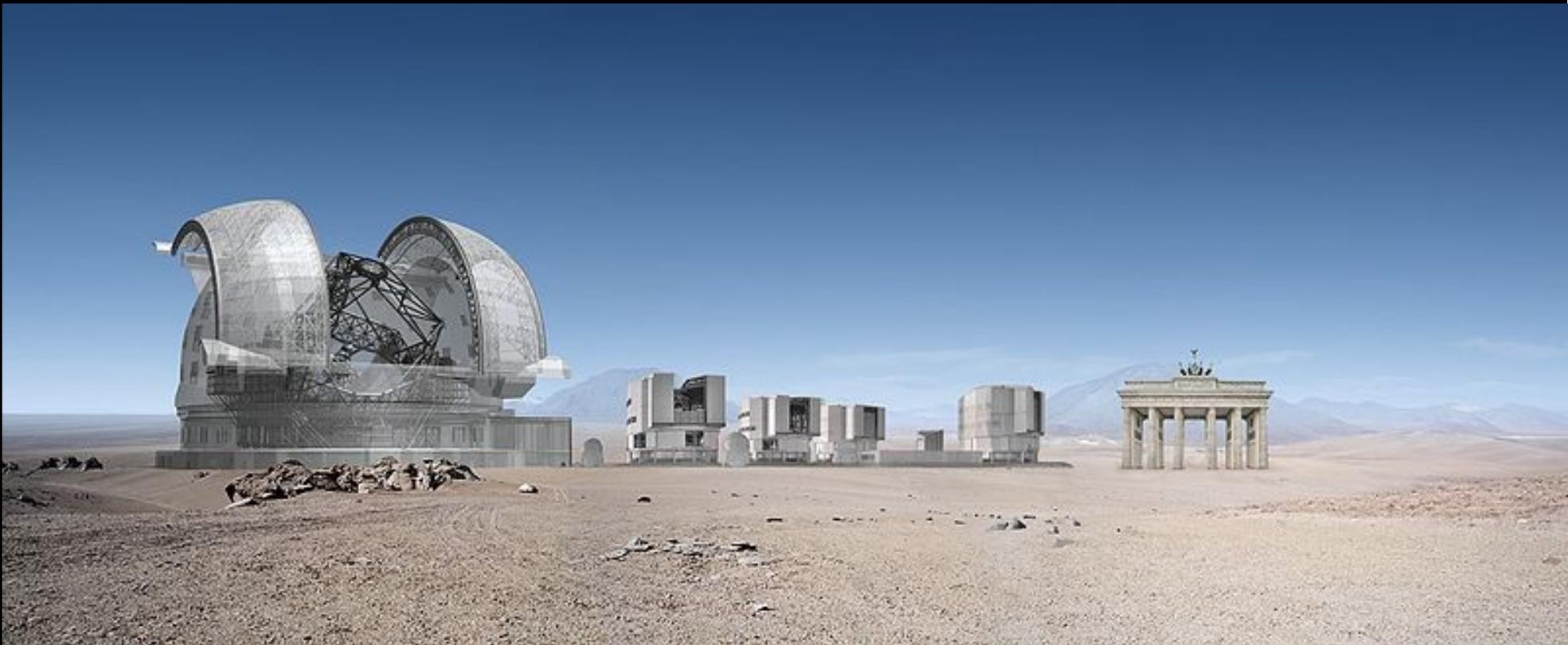
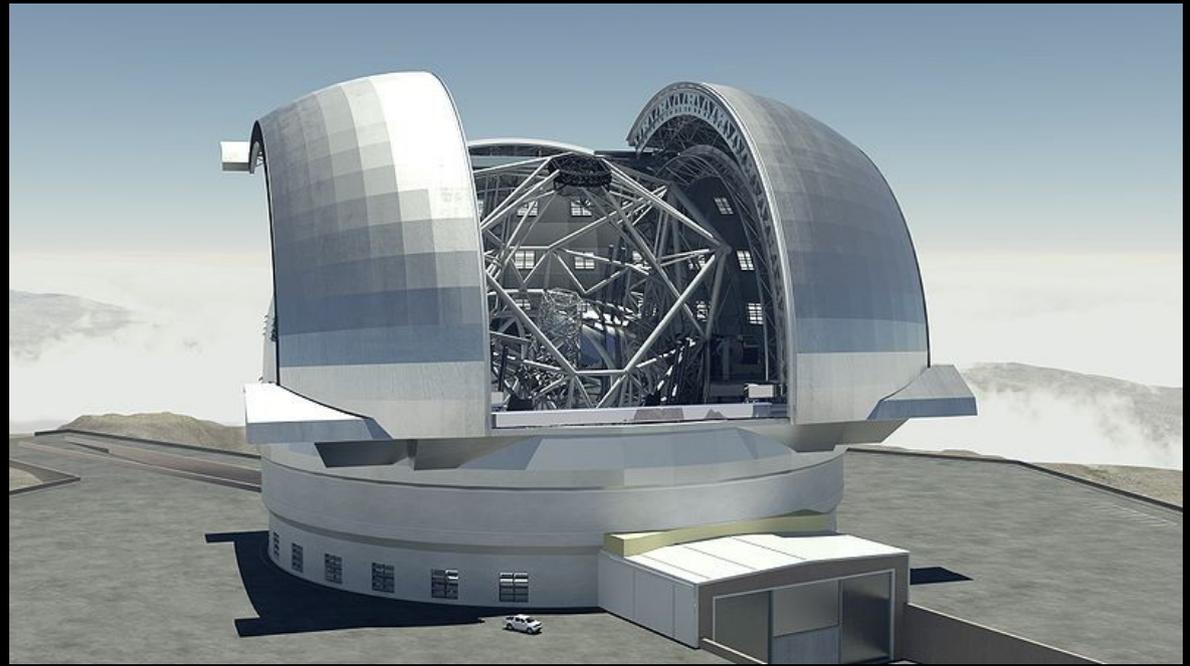


How the IFUs function

Futuro ELT (ESO)

42m 2016

US\$ 1 bi



Telescópio James Webb



astro.ferrari.pro.br