

## Tecniche Astronomiche per la Fisica Solare



Grazie dell'attenzione!



# Stage Invernale a Tor Vergata 2019

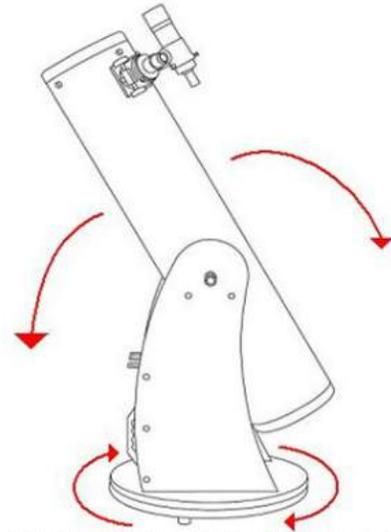


## Tecniche Astronomiche per la Fisica Solare

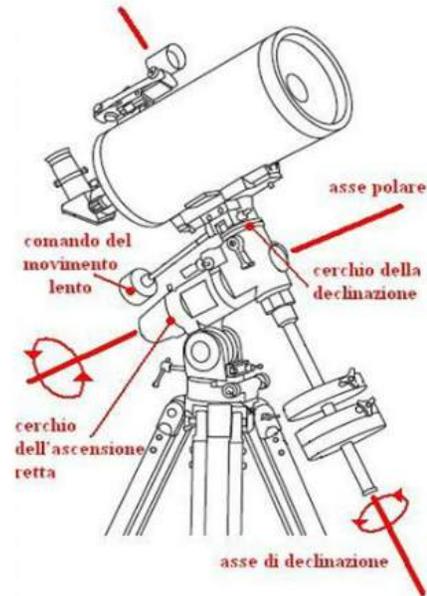
# Montature

**Altazimutale**

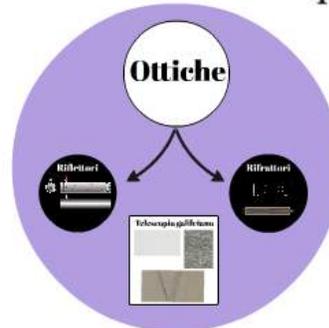
**Equatoriale**



TELESCOPIO ALTAZIMUTALE

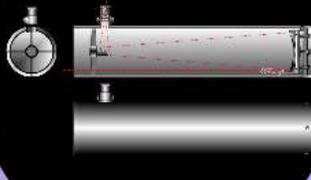


TELESCOPIO EQUATORIALE

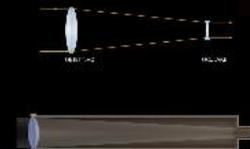


# Ottiche

## Riflettori



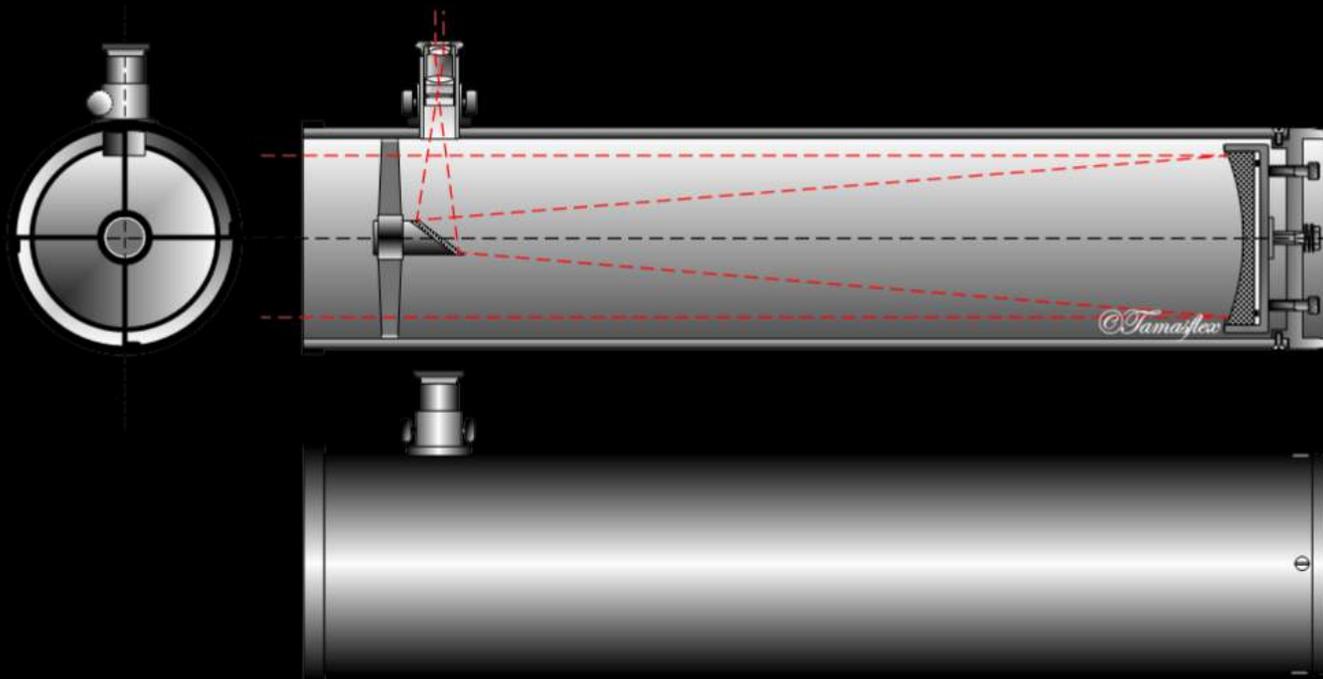
## Rifrattori



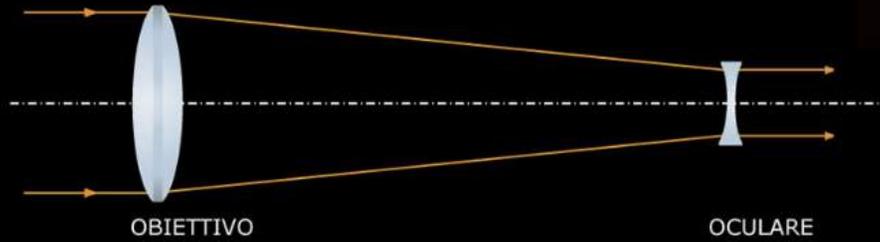
## Telescopio galileiano



# Riflettori



# Rifrattori



# Telescopio galileiano



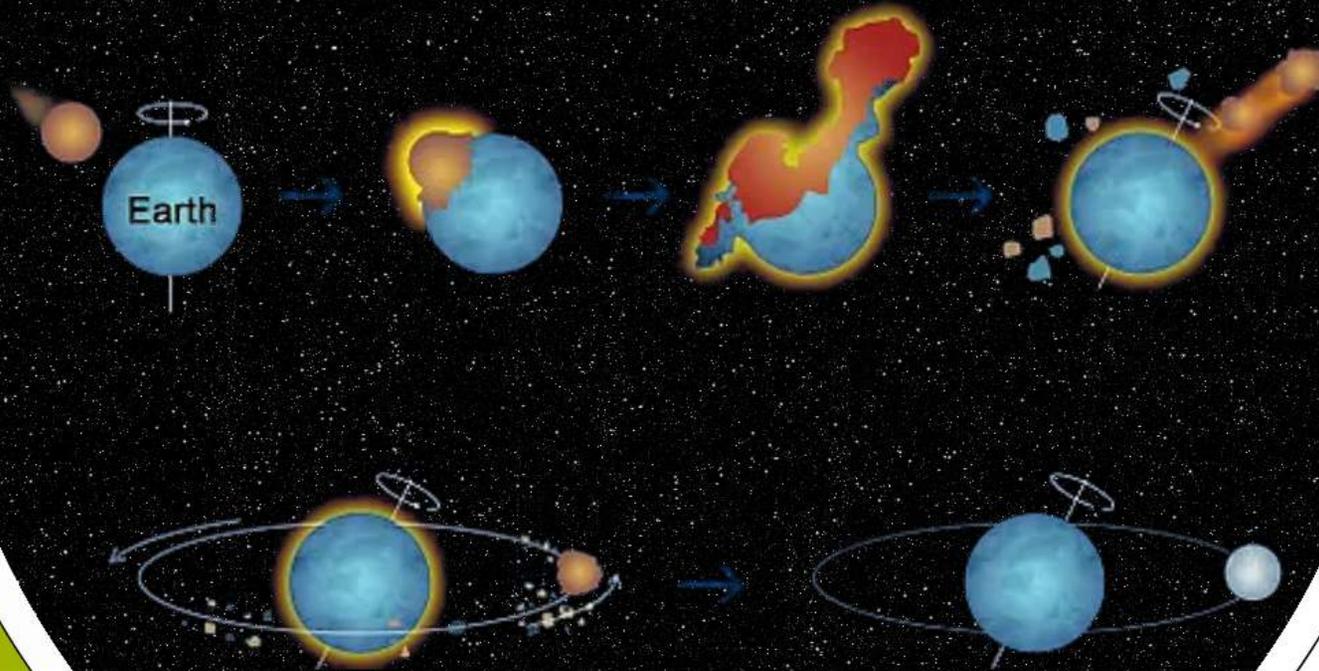
# la Luna

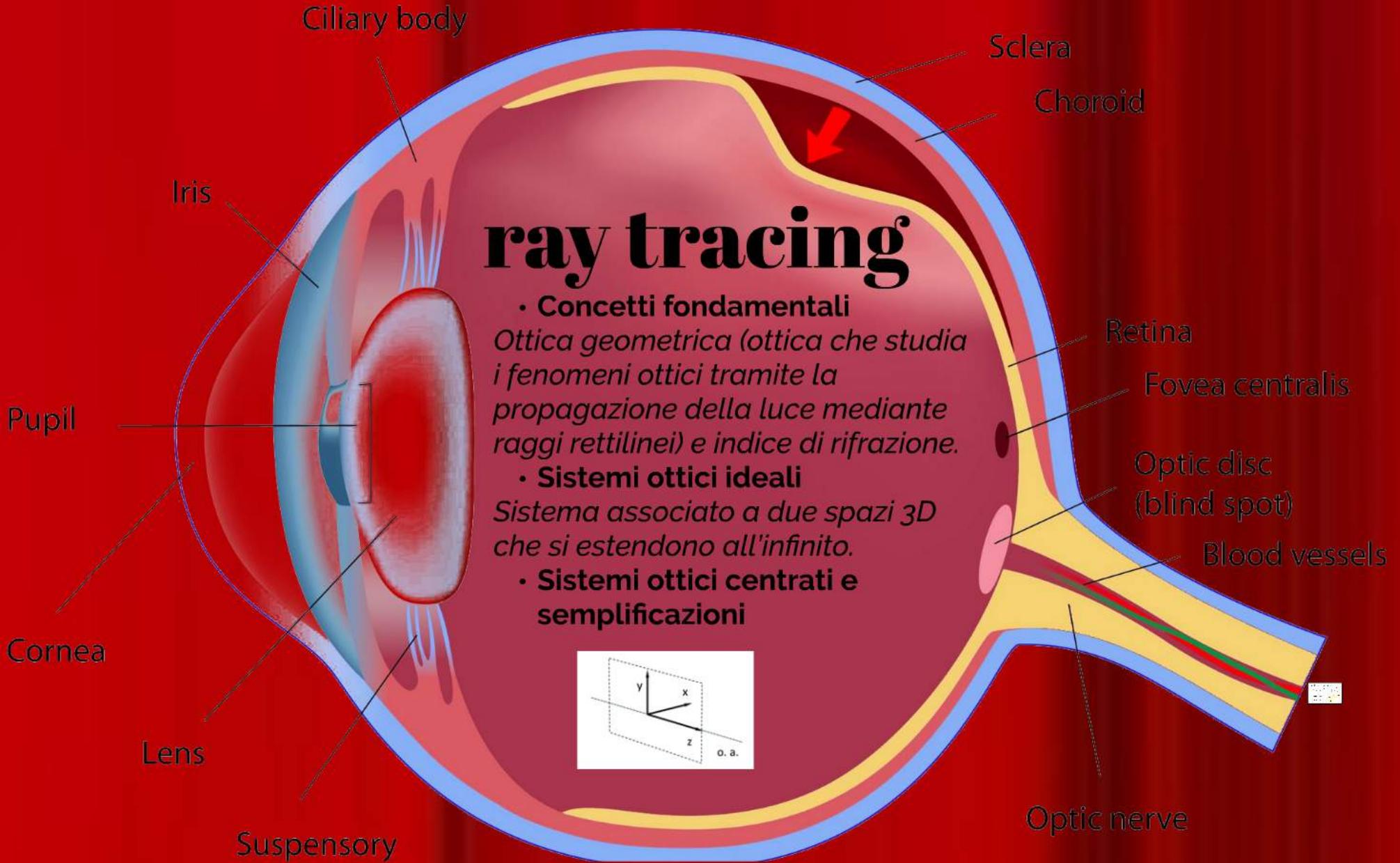
- dimensioni:  $R = 1737 \text{ km}$
- massa:  $7,3 \times 10^{22} \text{ kg}$
- distanza Terra-Luna:  $384.400 \text{ km}$
- rotazione sincrona => lato nascosto

Teoria del  
doppio impatto

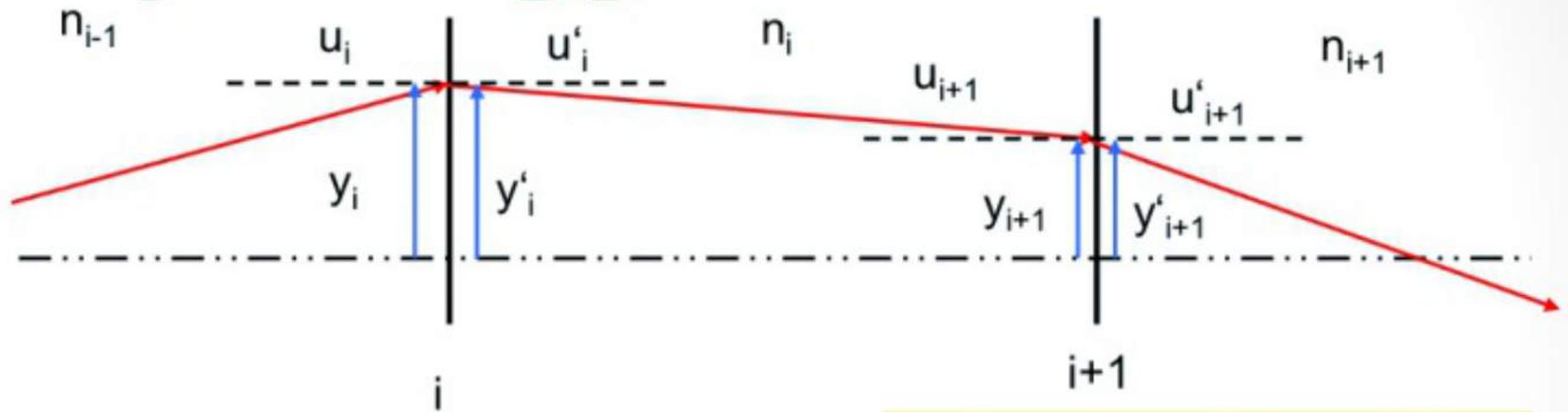


# Teoria del doppio impatto





# Ray tracing parassiale

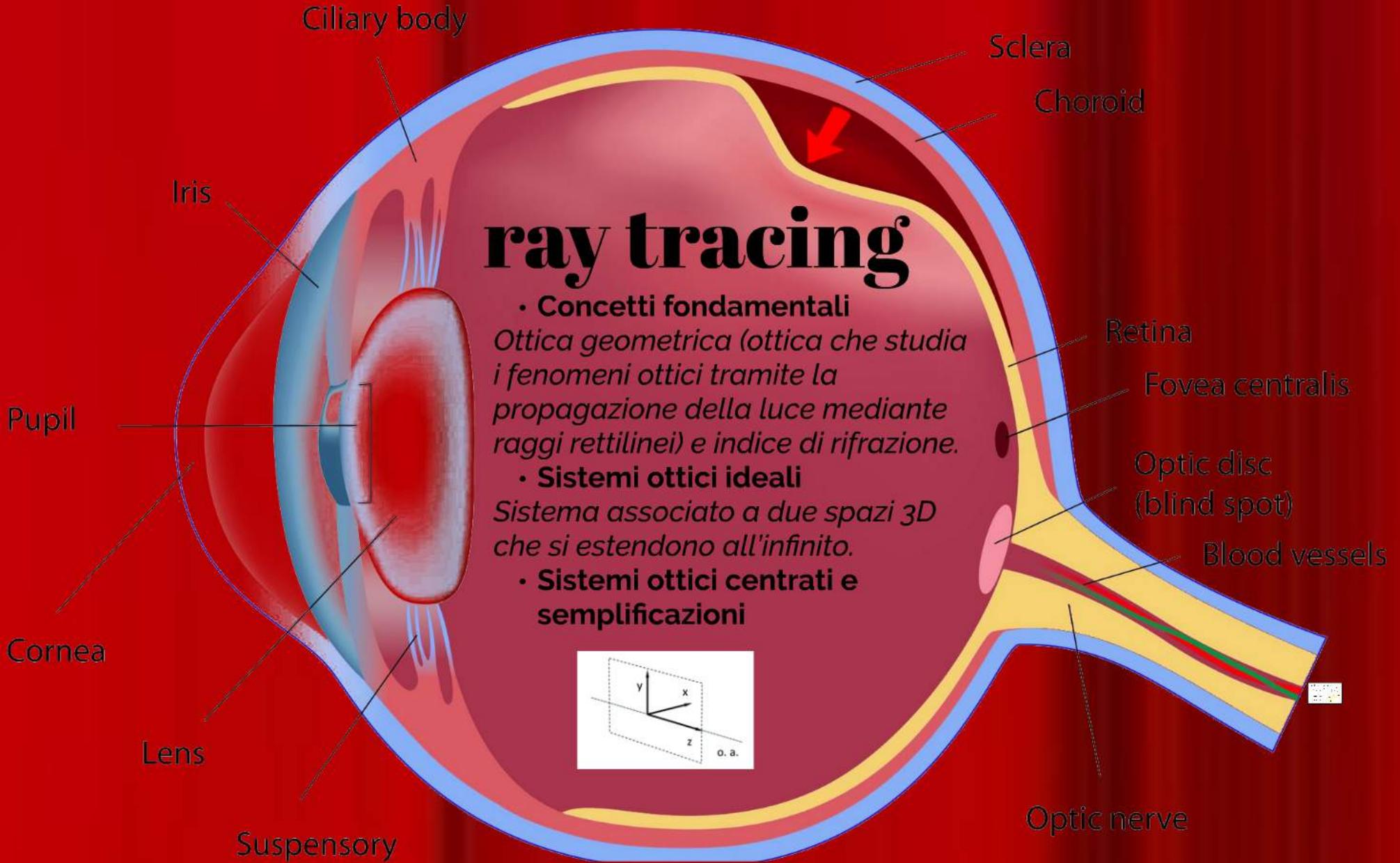


Equazioni della rifrazione:

$$n_i u'_i = n_{i-1} u_i - (n_i - n_{i-1}) y_i c_i$$
$$y'_i = y_i$$

Equazioni del trasporto:

$$n_i u_{i+1} = n_i u'_i$$
$$y_{i+1} = y'_i + \frac{t_i}{n_i} n_i u'_i$$



**telescopi**

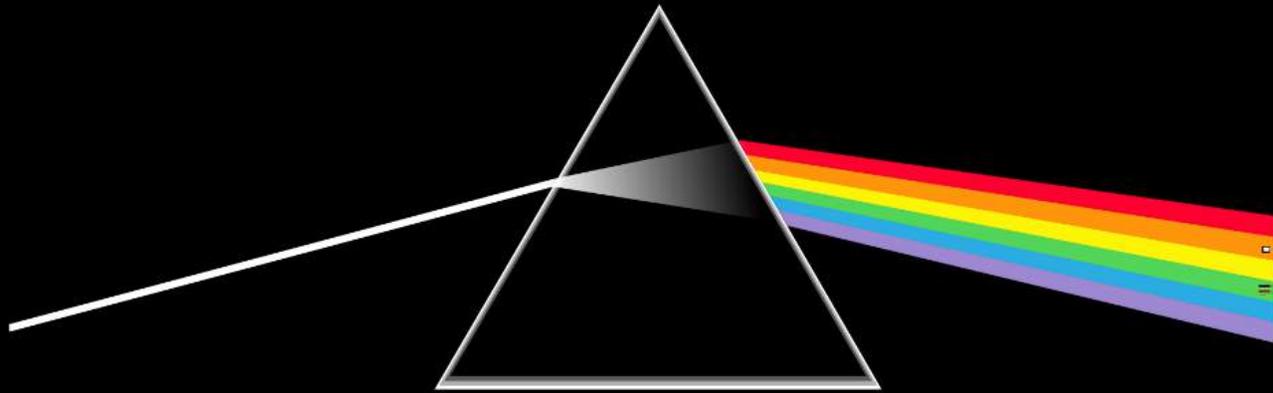
- Hale Telescope
- Telescopi  
Gemelli (Gemini)



**moderni**

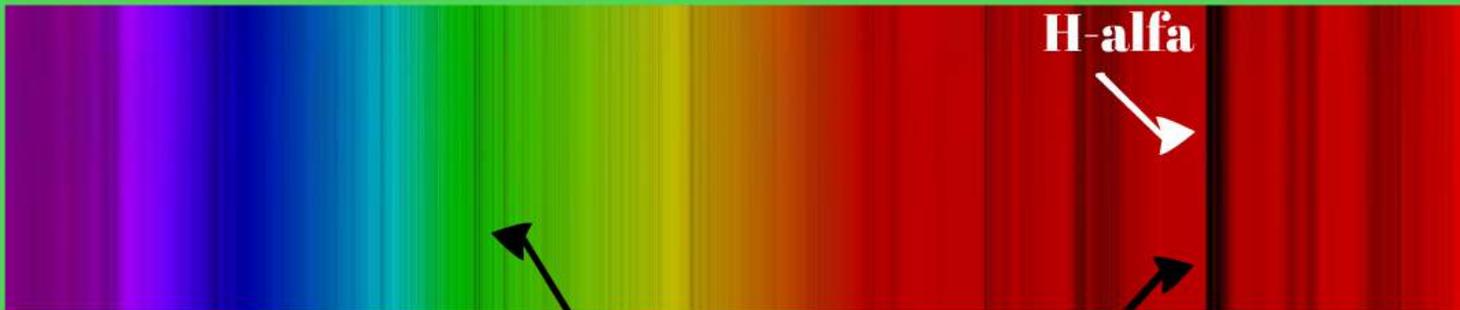
- Multi Mirror  
Telescope
- Ottica attiva
- Ottica adattiva

# Spettroscopia



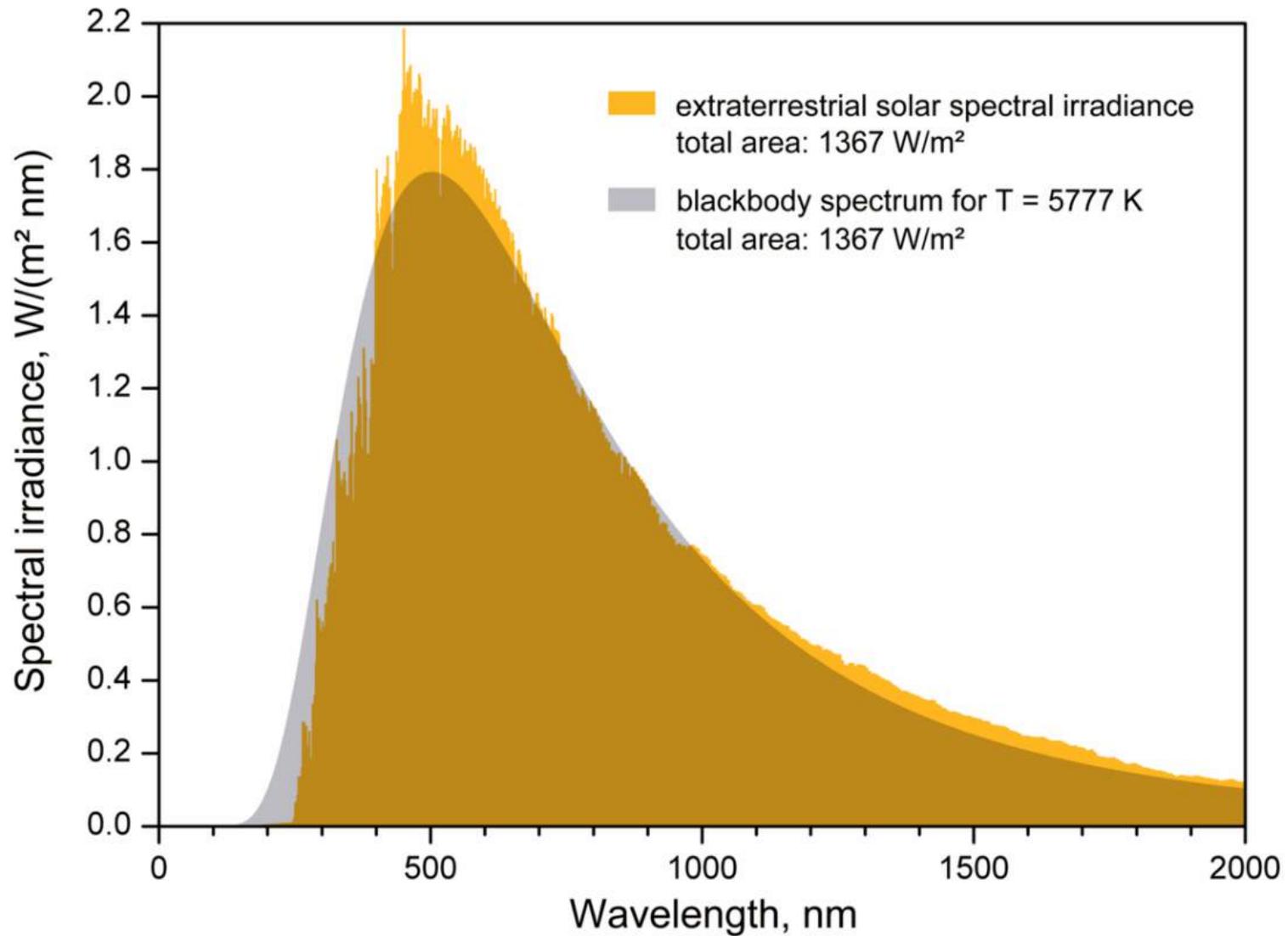


**Spettro  
continuo**

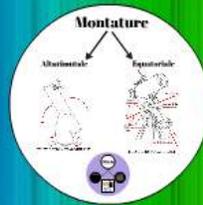


**Spettro di  
assorbimento**

**Righe di assorbimento**



"Oh Be A Fine Girl Kiss Me"



# Grazie dell'attenzione!

