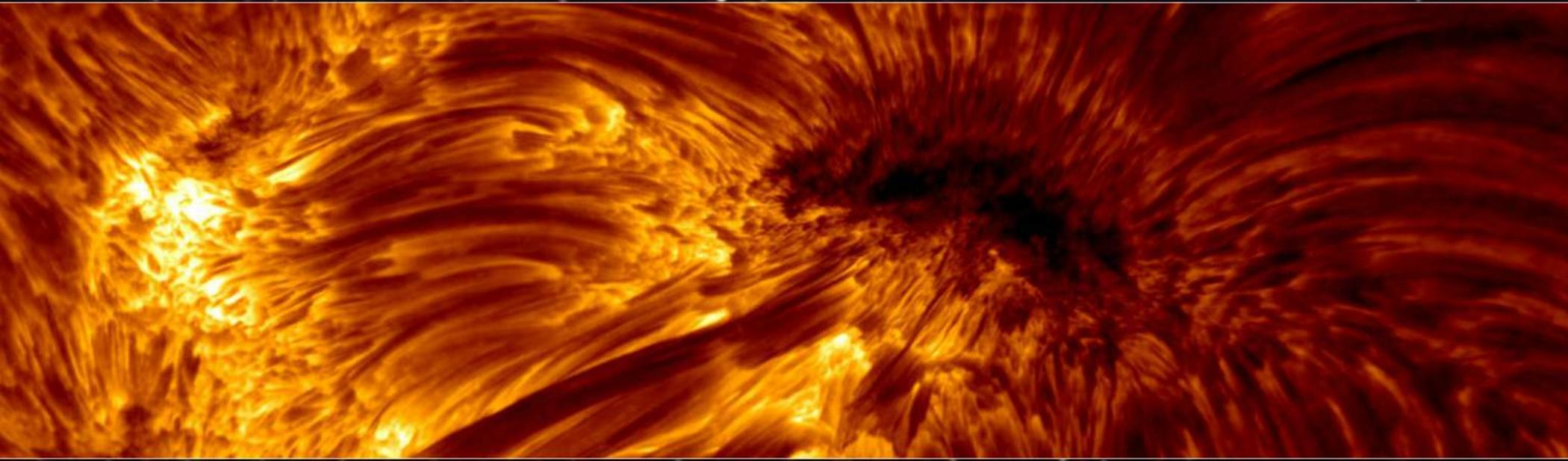
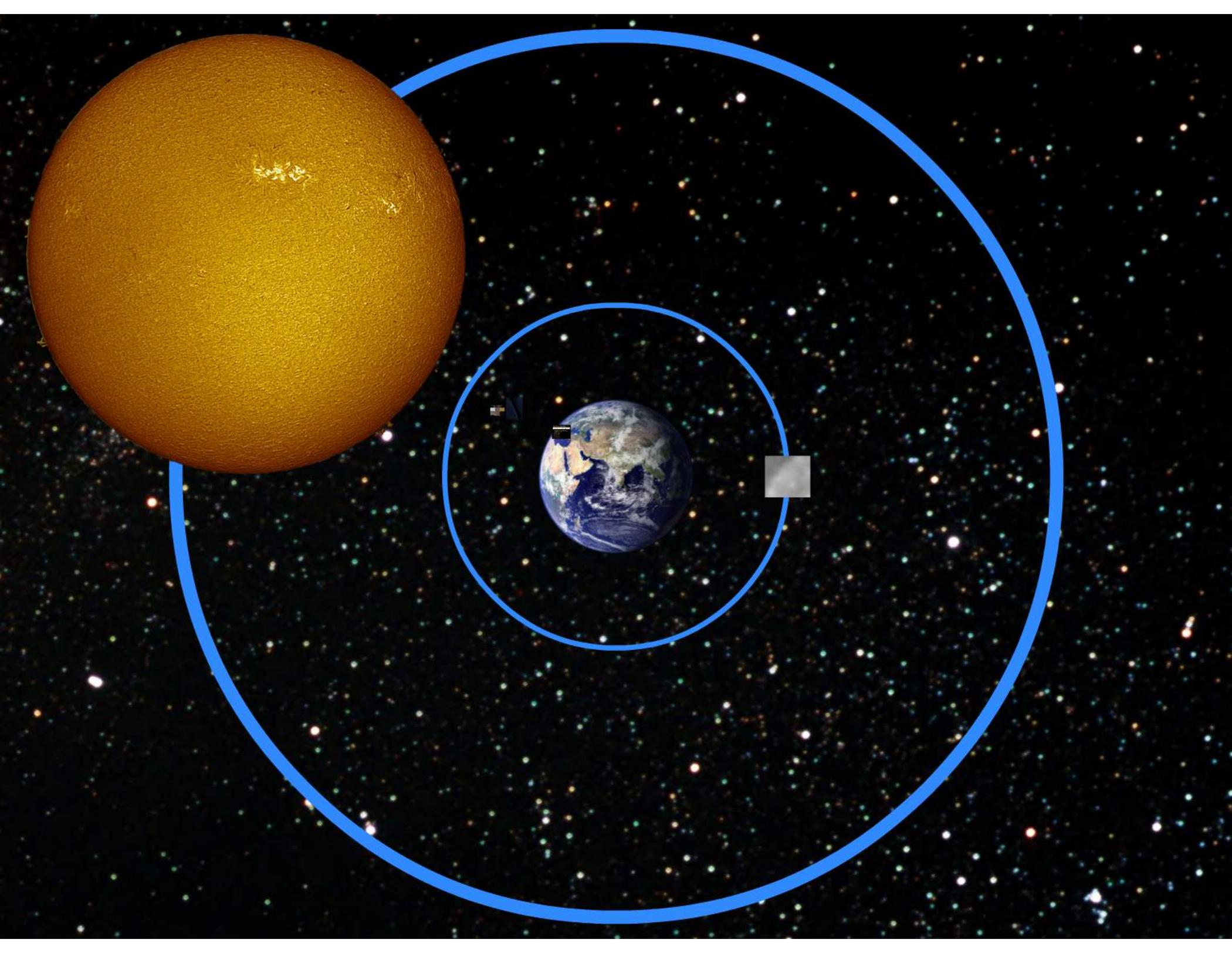




# *Stage Invernale a Tor Vergata 2018*



# **Tecniche Astronomiche per la Fisica Solare**



# Galileo Galilei

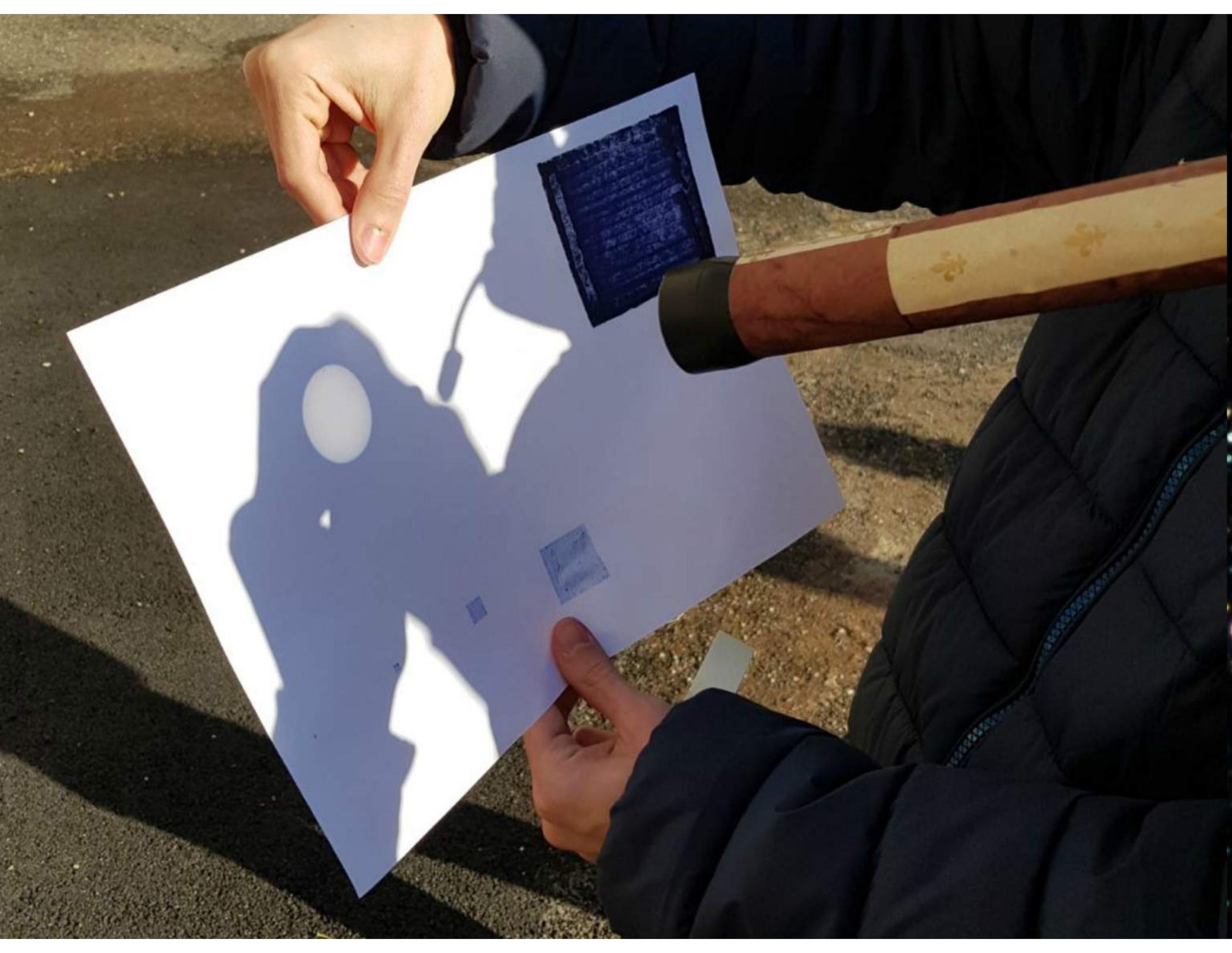


- 1604 Esplosione di una Supernova
- 1609 Prime osservazioni al telescopio
- 1610 Sidereus Nuncius
- 1623 Il Saggiatore



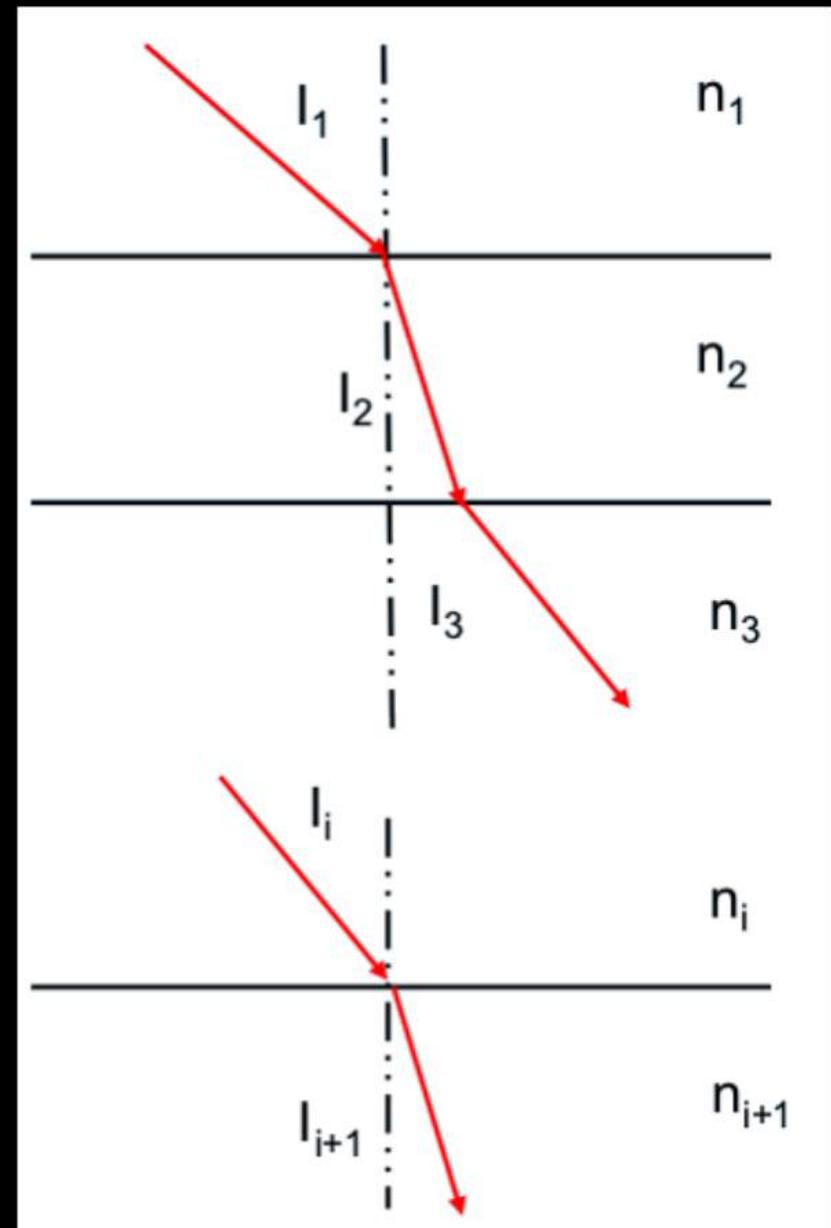
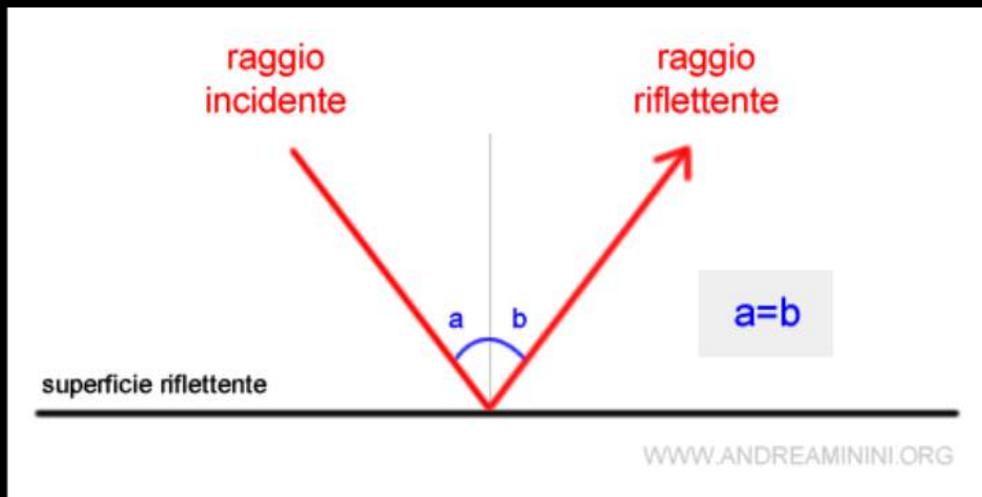
# *La nostra esperienza con i telescopi galileiani*



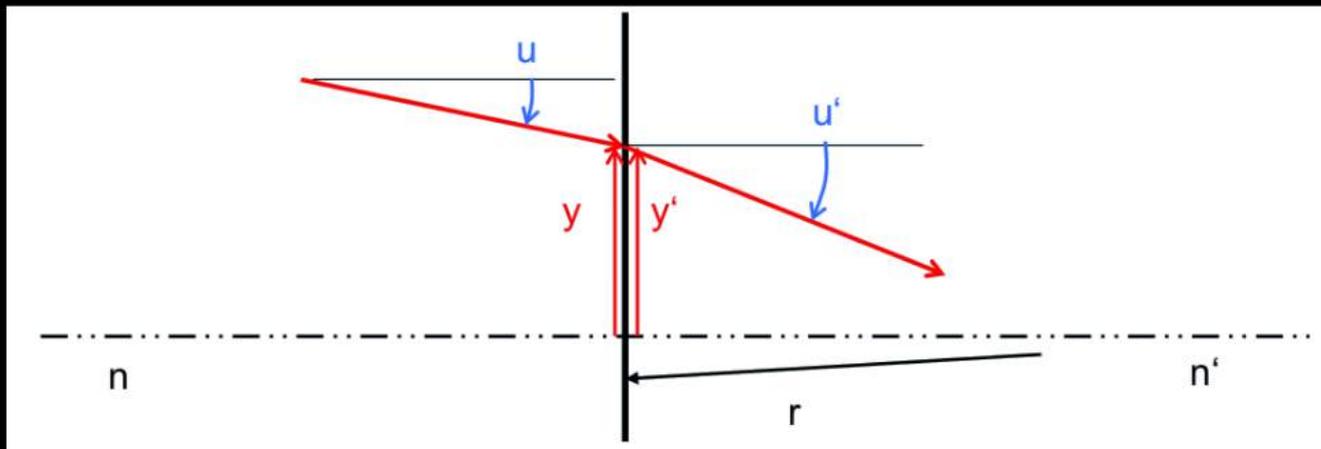
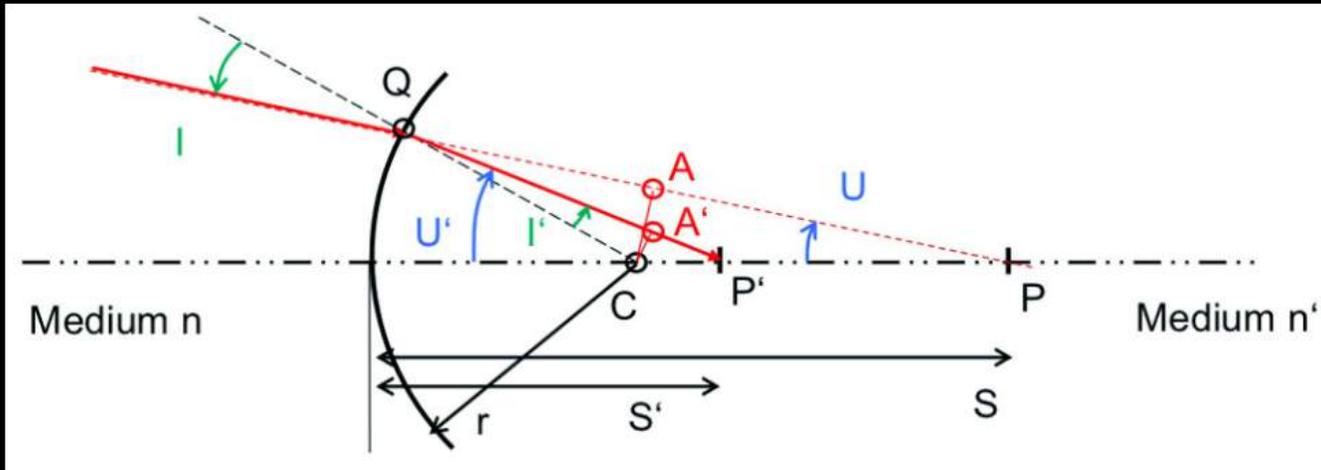


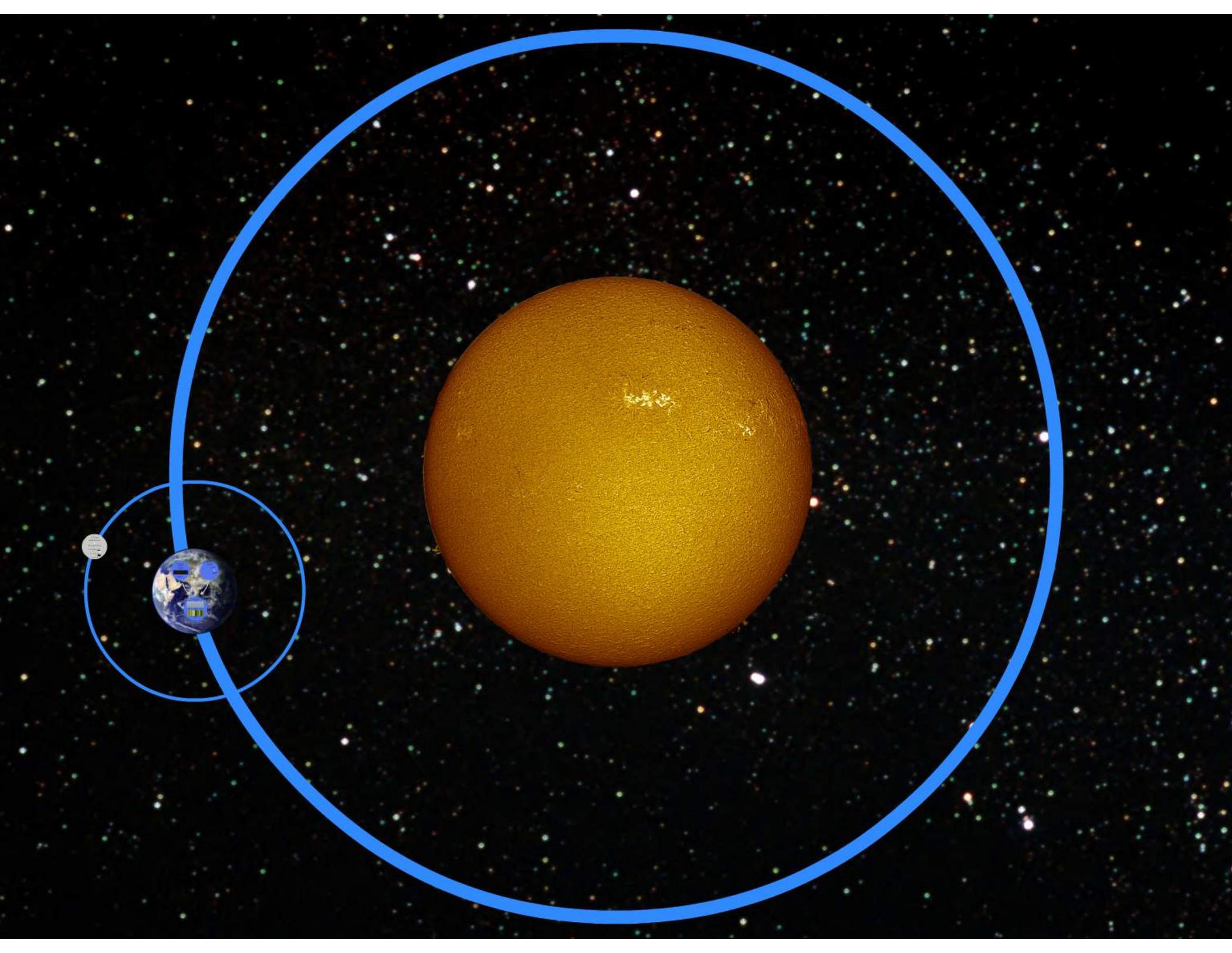
# Ray Tracing

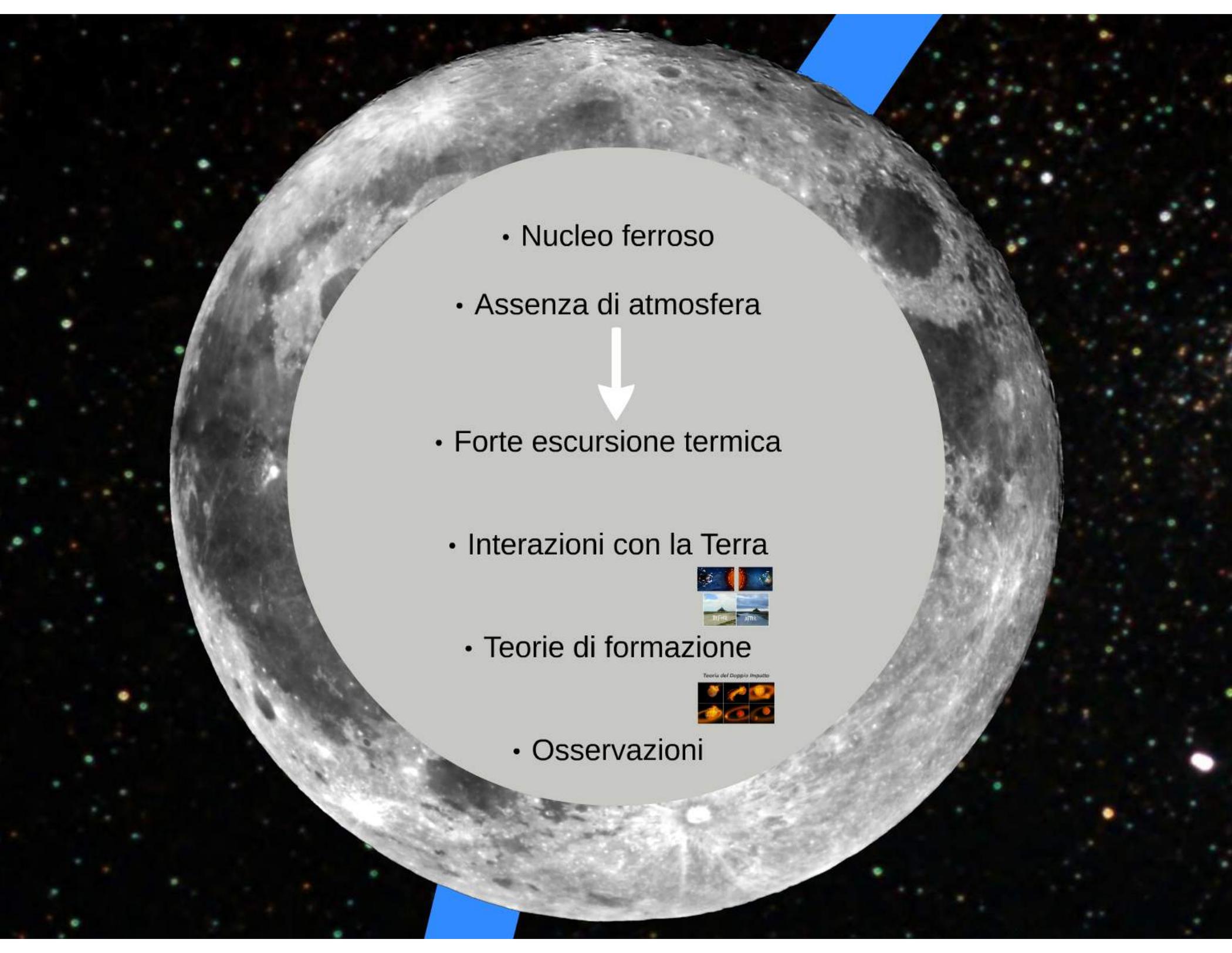
- Convenzioni ottiche
- Legge di rifrazione e riflessione



- Approssimazione parassiale







- Nucleo ferroso

- Assenza di atmosfera



- Forte escursione termica

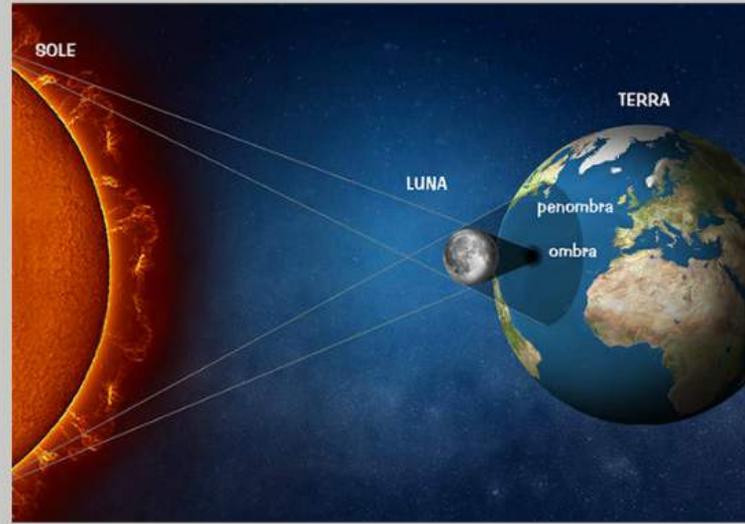
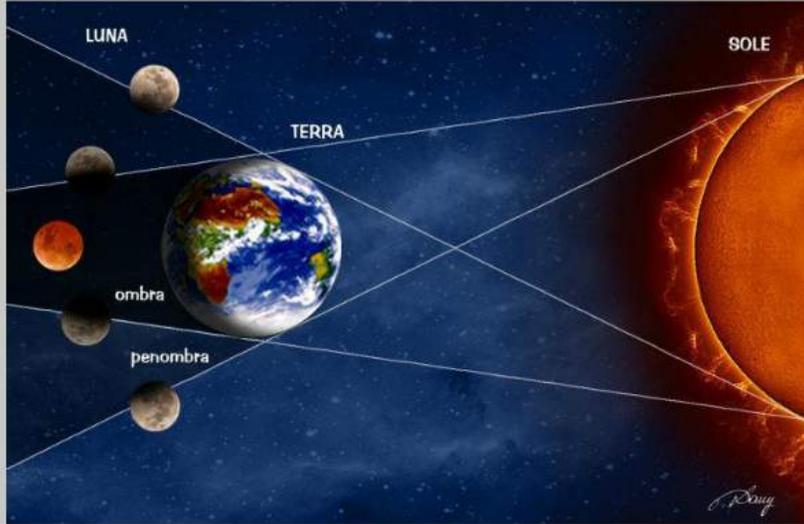
- Interazioni con la Terra



- Teorie di formazione



- Osservazioni

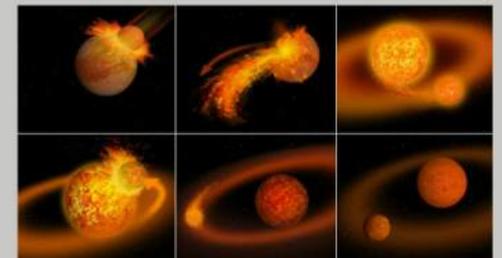


- Interazioni con la Terra



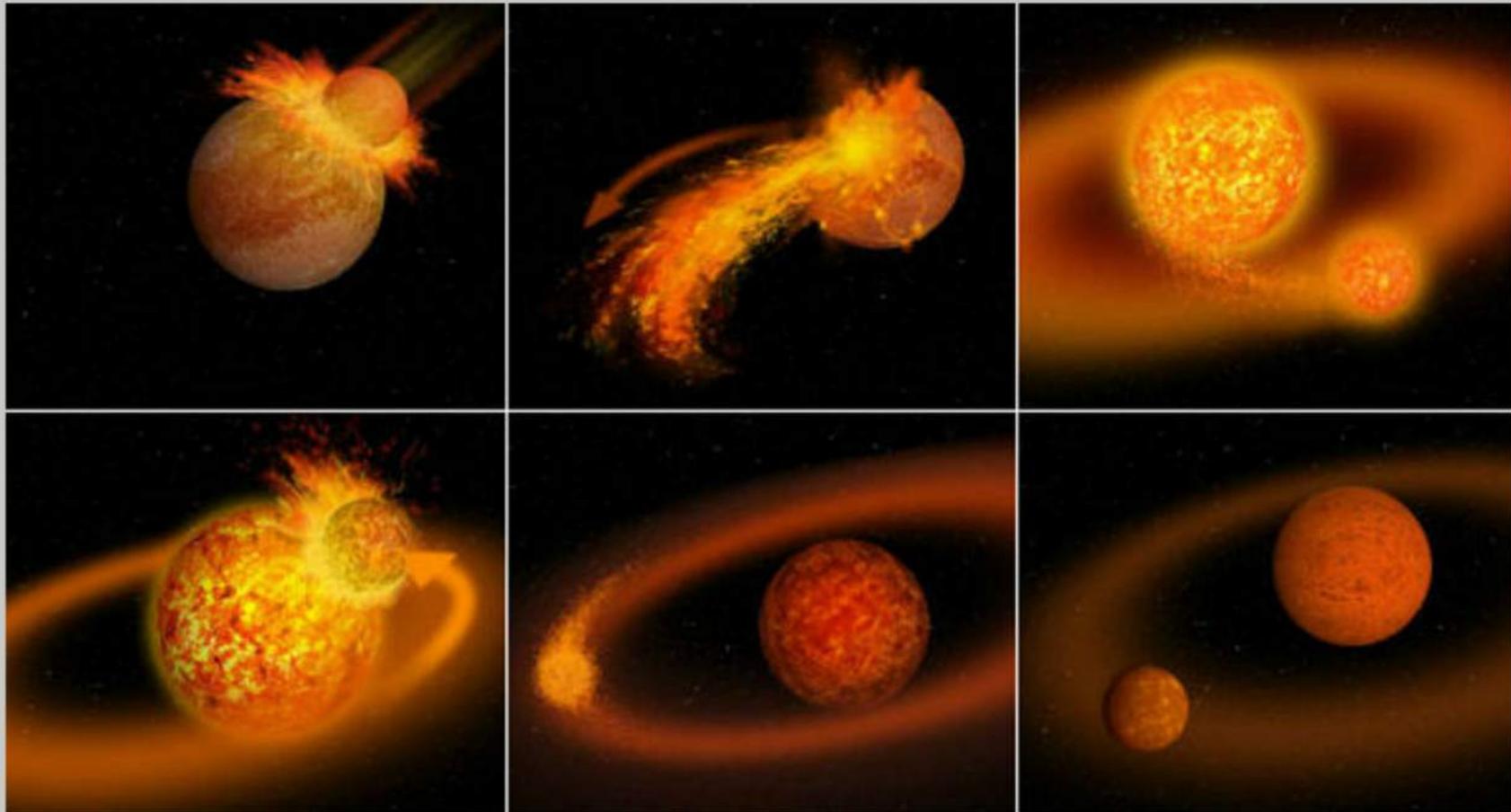
- Teorie di formazione

*Teoria del Doppio Impatto*



- Osservazioni

# *Teoria del Doppio Impatto*

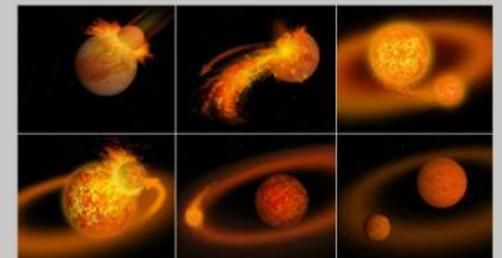


- Interazioni con la Terra



- Teorie di formazione

*Teoria del Doppio Impatto*



- Osservazioni

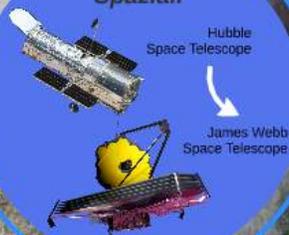
### *I Telescopi Moderni*

Keck Telescope  
Mauna Kea, Hawaii  
2 x 36 x 1,8 m  
Specchi iperbolici segmentati; schema ottico RC



Ottica attiva (seconda)  
Ottica adattiva (ms)

### *Telescopi Spaziali*



Hubble  
Space Telescope

James Webb  
Space Telescope

### *I Telescopi Futuri*



European-Extremely Large Telescope (E-ELT)



European Solar Telescope (EST)

# ***I Telescopi Moderni***

Keck Telescope  
Mauna Kea, Hawaii  
2 x 36 x 1.8 m  
Specchi iperbolici segmentati schema ottico RC

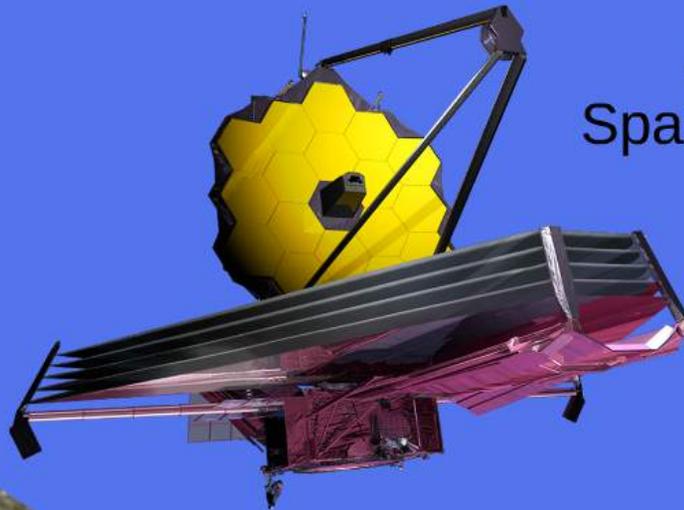


Ottica attiva (sec/min)  
Ottica adattiva (ms)

# *Telescopi Spaziali*



Hubble  
Space Telescope



James Webb  
Space Telescope

# *I Telescopi Futuri*



European-Extremely Large Telescope  
(E-ELT)



European Solar Telescope  
(EST)

# Grazie dell'attenzione!

Stage Invernale a  
Tor Vergata 2018  
Tecniche Astronomiche  
per la Fisica Solare

