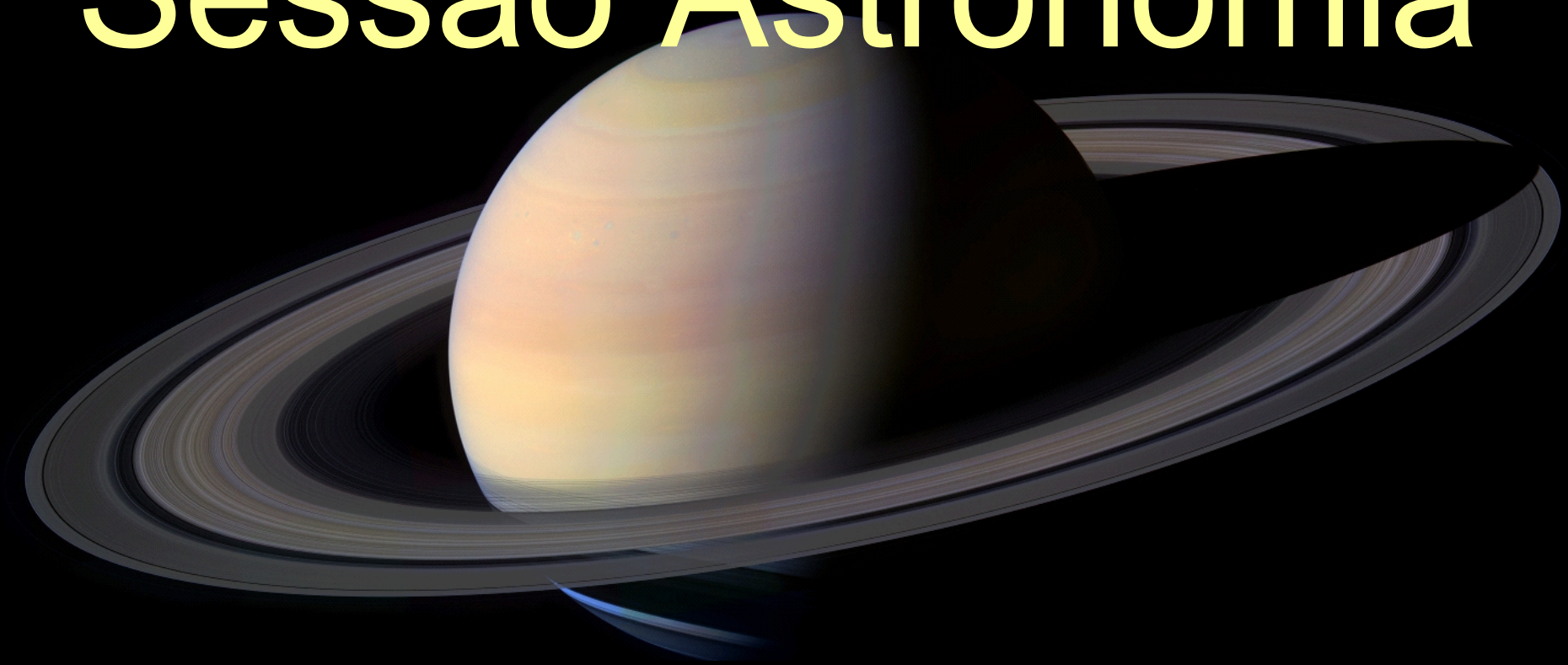
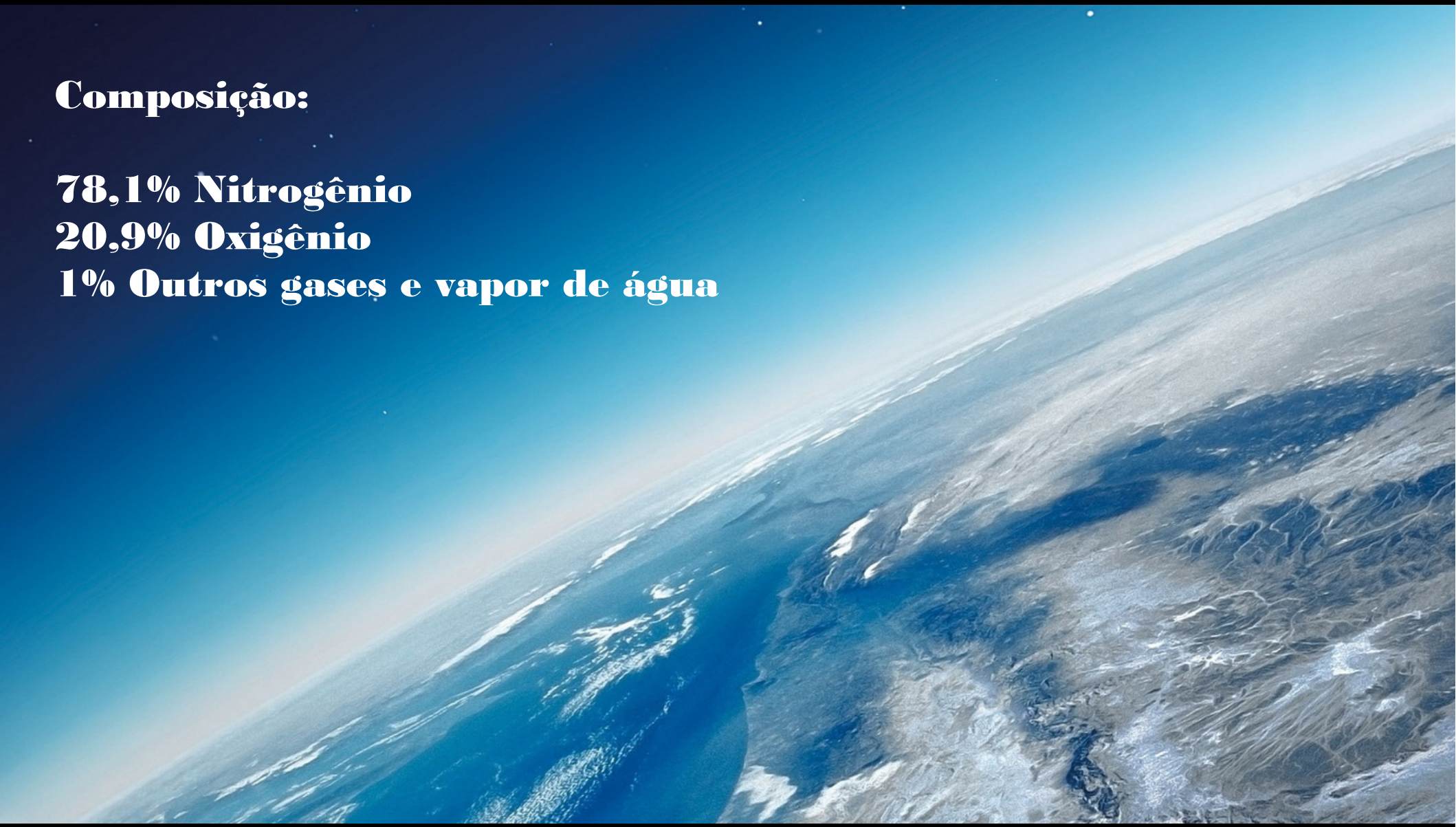

CDA

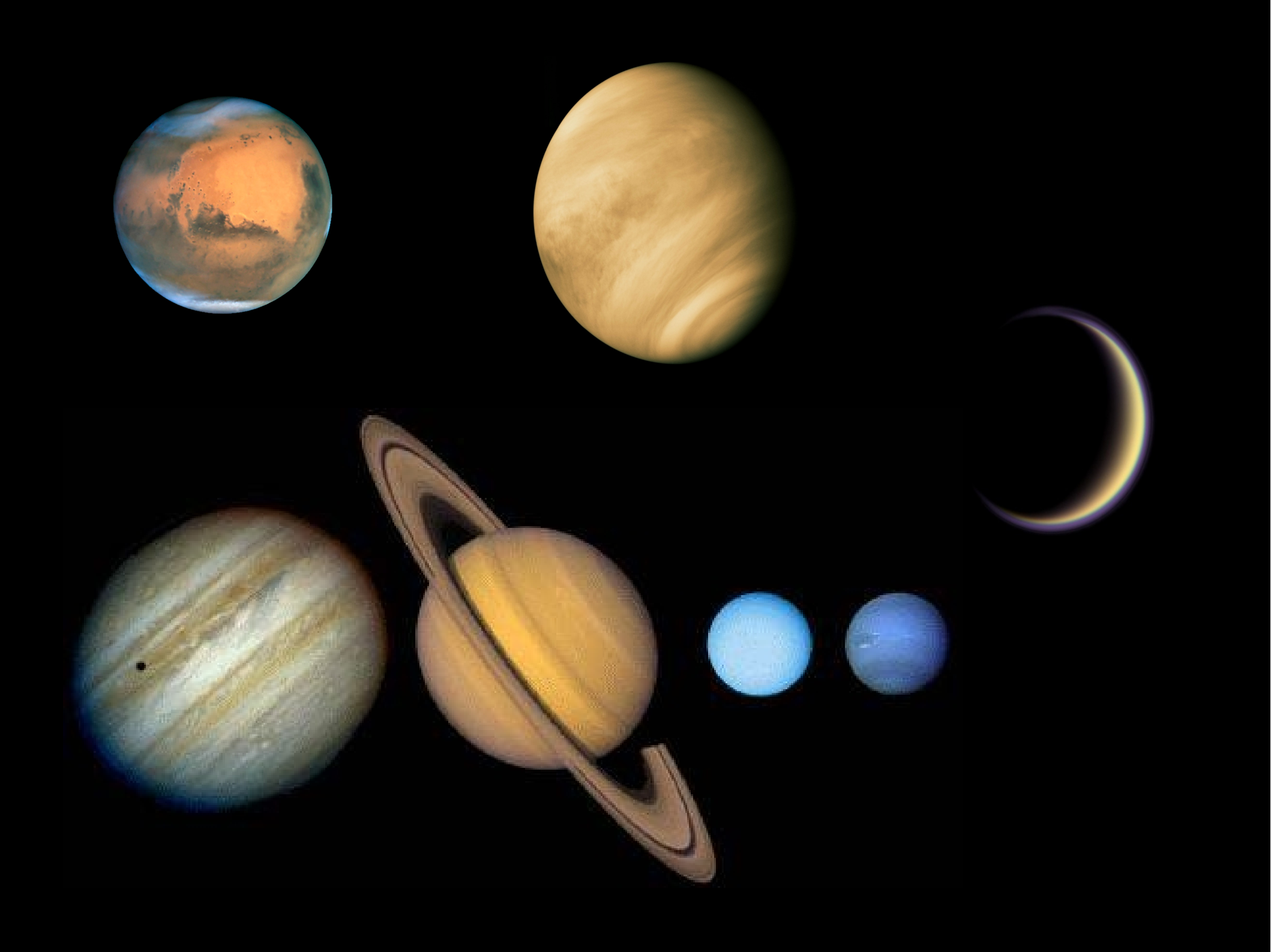
Sessão Astronomia

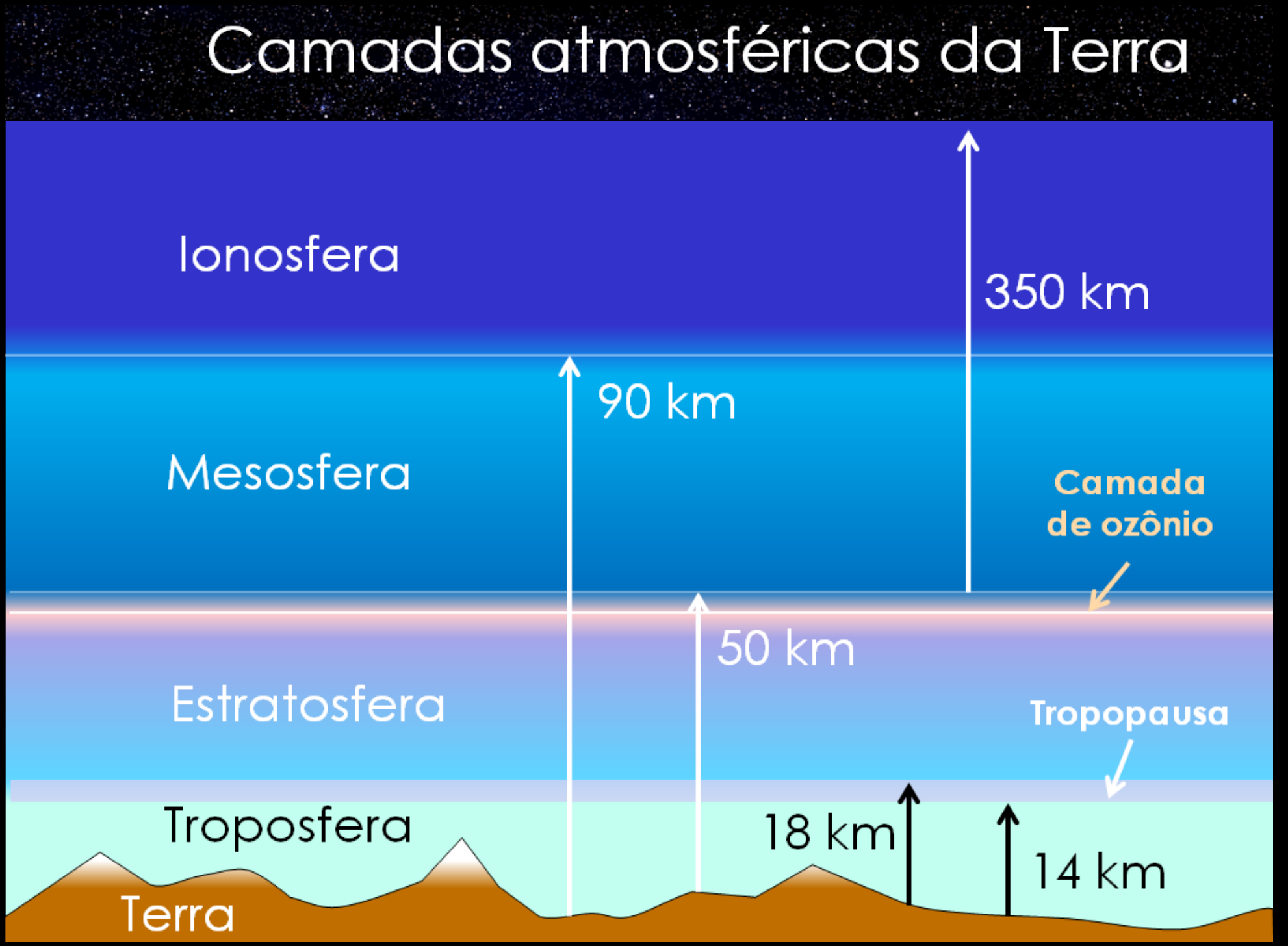


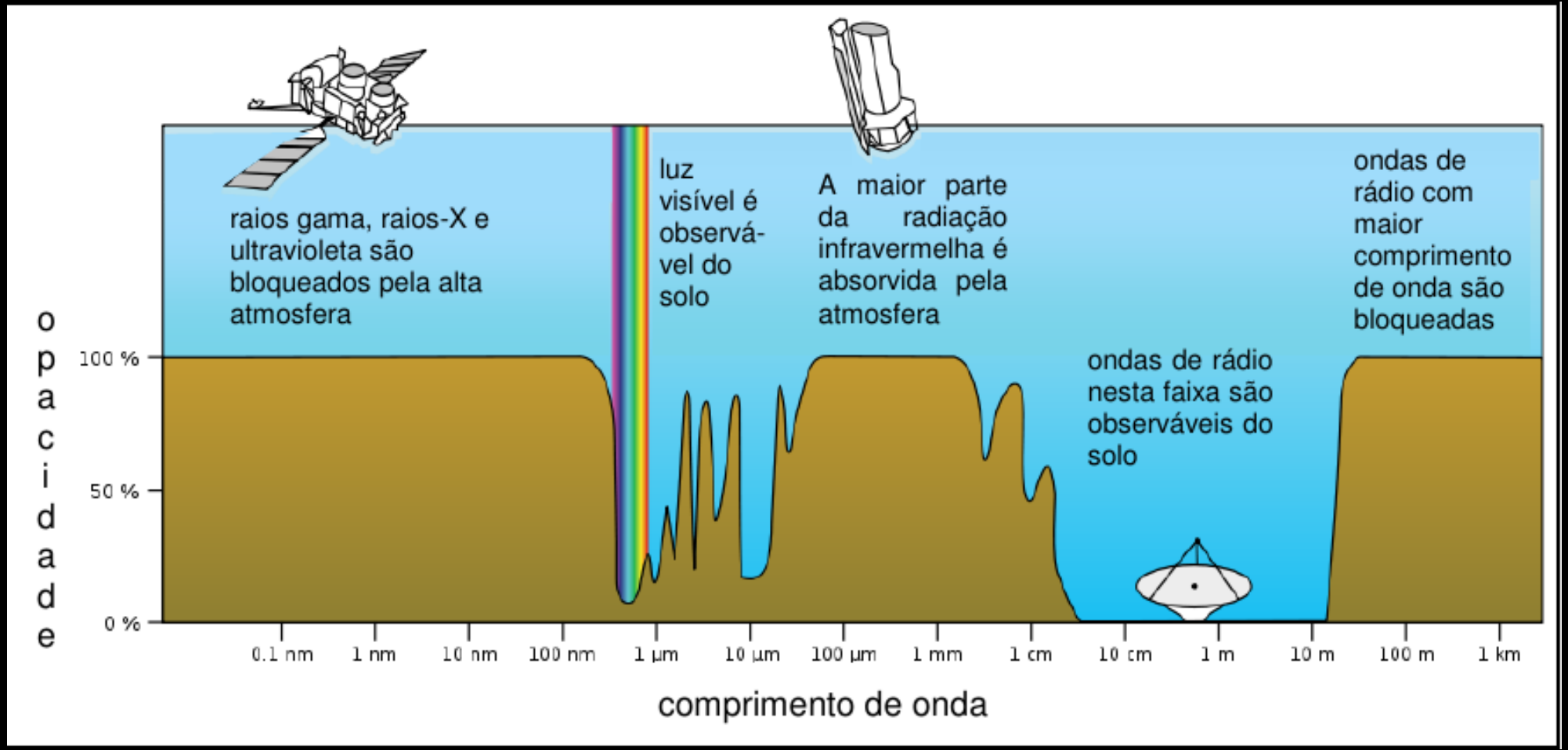
A Atmosfera na Astronomia

Joseana S. Soares


Composição:
78,1% Nitrogênio
20,9% Oxigênio
1% Outros gases e vapor de água



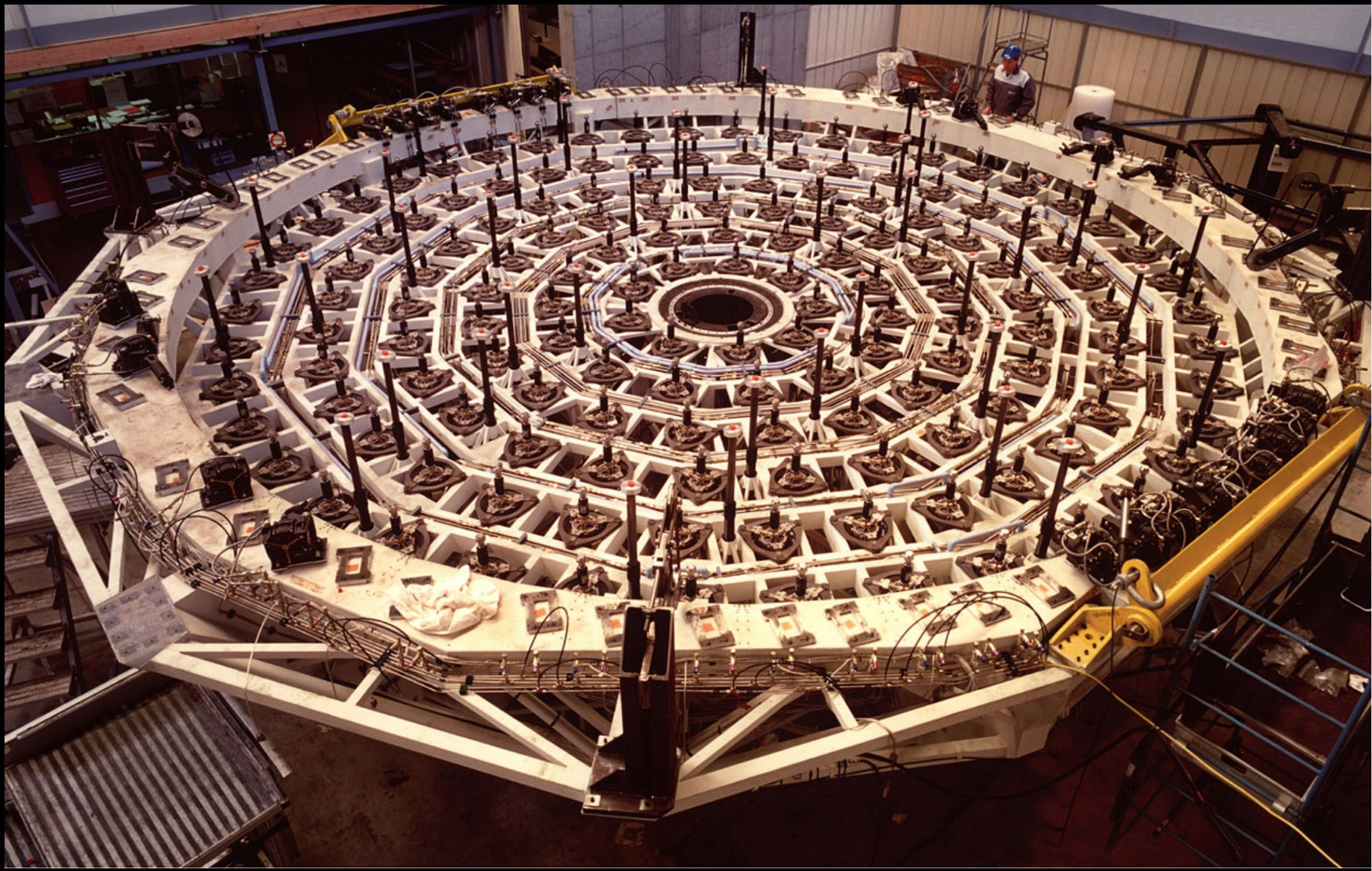

Camadas atmosféricas da Terra
Ionosfera
350 km
90 km
Mesosfera
Camada
de ozônio
50 km
Estratosfera
Tropopausa
Troposfera
18 km
14 km
Terra

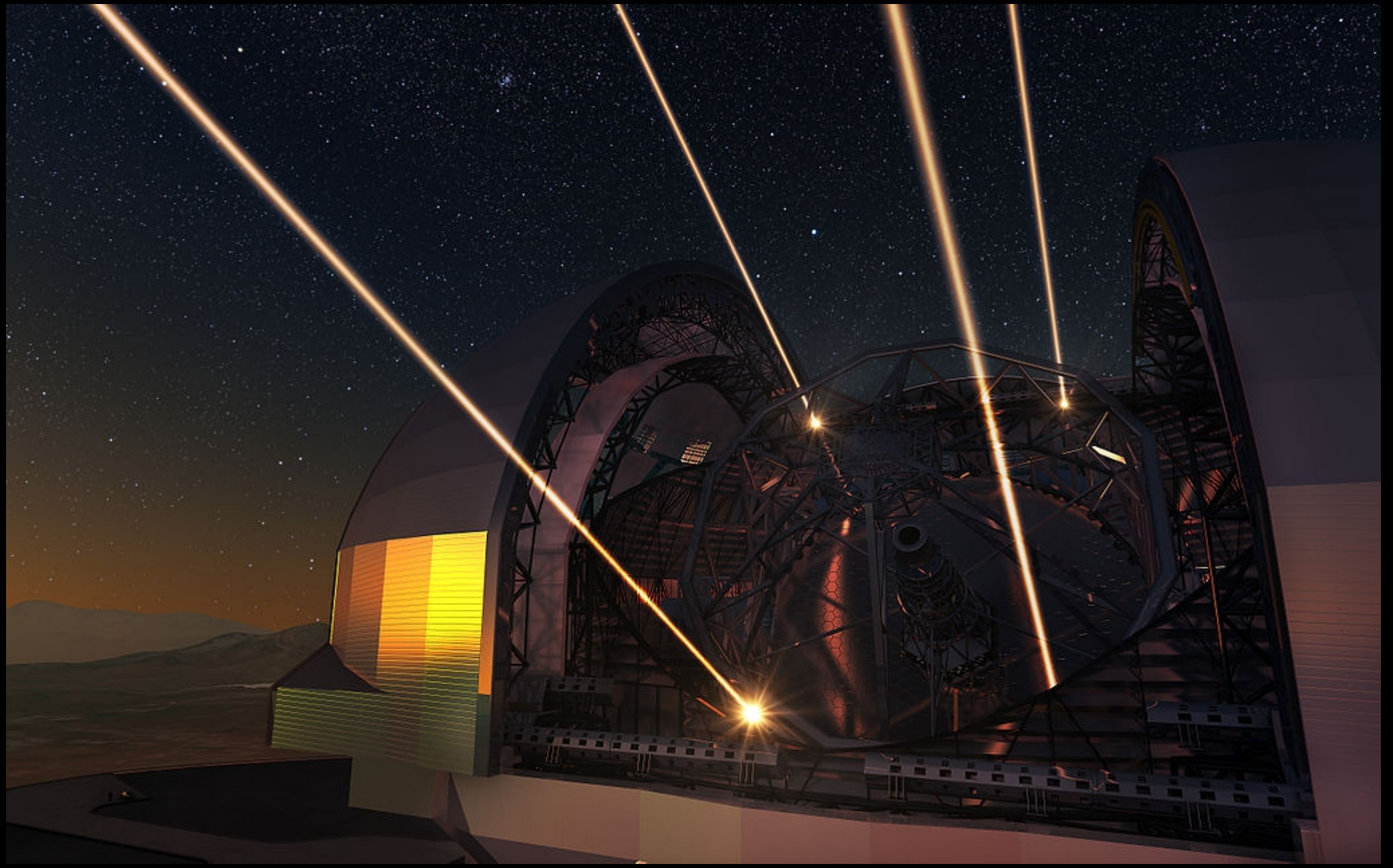

raios gama, raios-X e ultravioleta são bloqueados pela alta atmosfera
luz visível é observá-vel do solo
A maior parte da radiação infravermelha é absorvida pela atmosfera
ondas de rádio nesta faixa são observáveis do solo
ondas de rádio com maior comprimento de onda são bloqueadas
opacidade
100 %
50 %
0 %
0.1 nm
1 nm
10 nm
100 nm
1 µm
10 µm
100 µm
1 mm
1 cm
10 cm
1 m
10 m
100 m
1 km
comprimento de onda

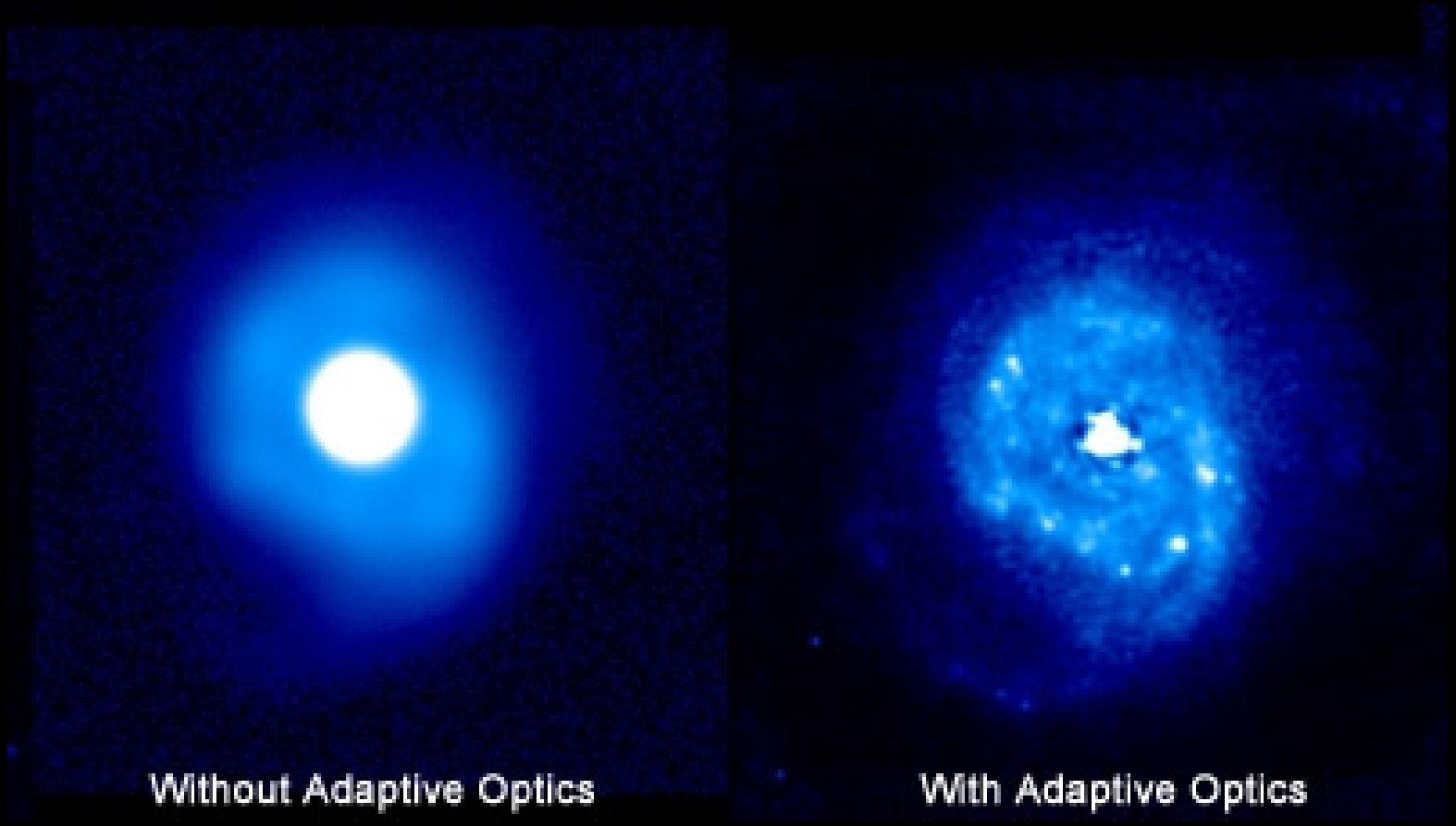

NASA
esa

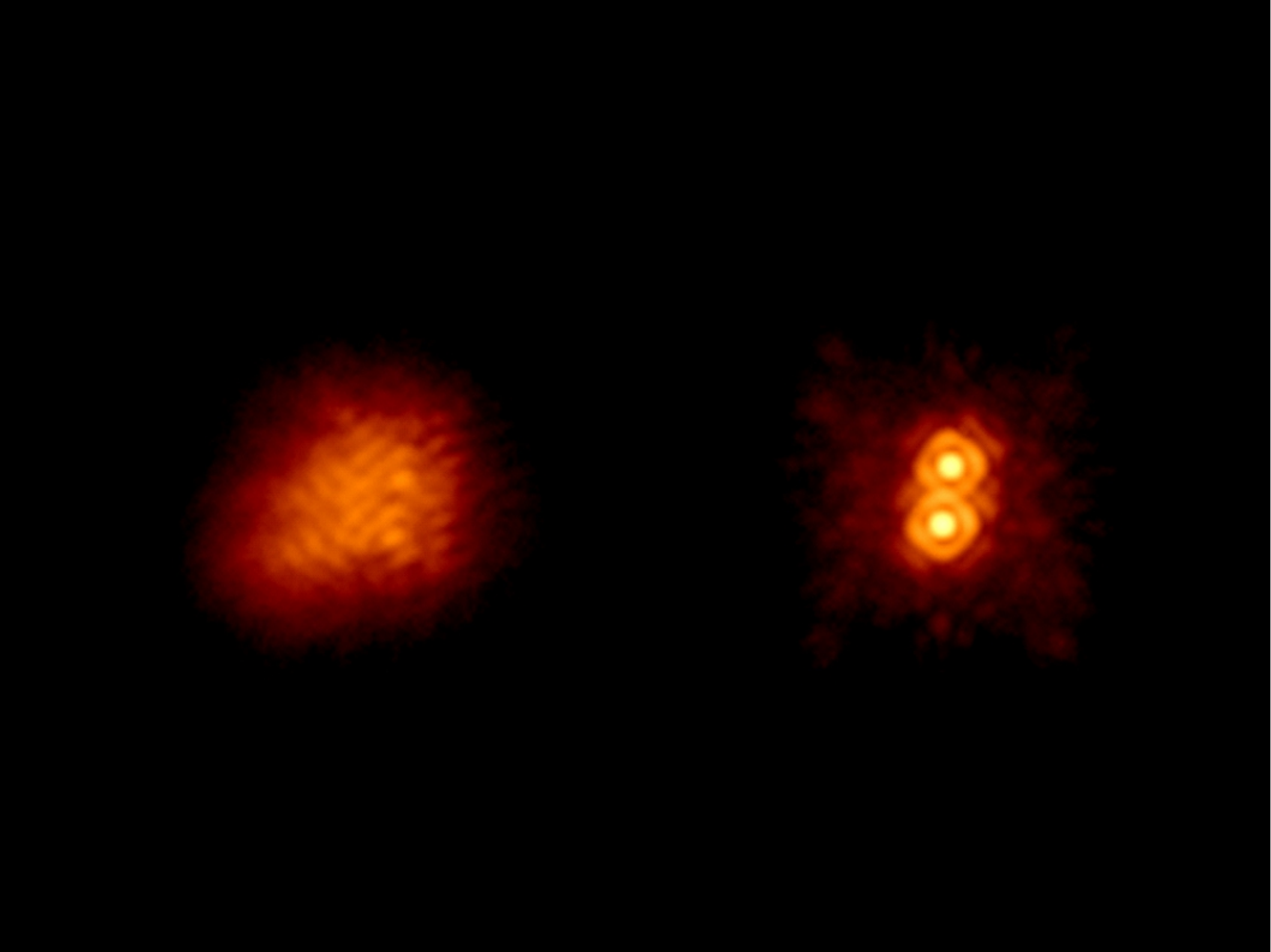

Jason Chu
Photography

ESO 3.6-metre telescope
Swiss 1.2-metre Leonhard Euler Telescope
New Technology Telescope
ESO 1-metre Schmidt telescope
MPG/ESO 2.2-metre telescope
Danish 1.54-metre telescope
MarLy 1-metre telescope
ESO 1-metre telescope
ESO 1.52-metre telescope
ESO 0.5-metre telescope
Dutch 0.9-metre telescope
Danish 0.5-metre telescope
Bochum 0.61-metre telescope

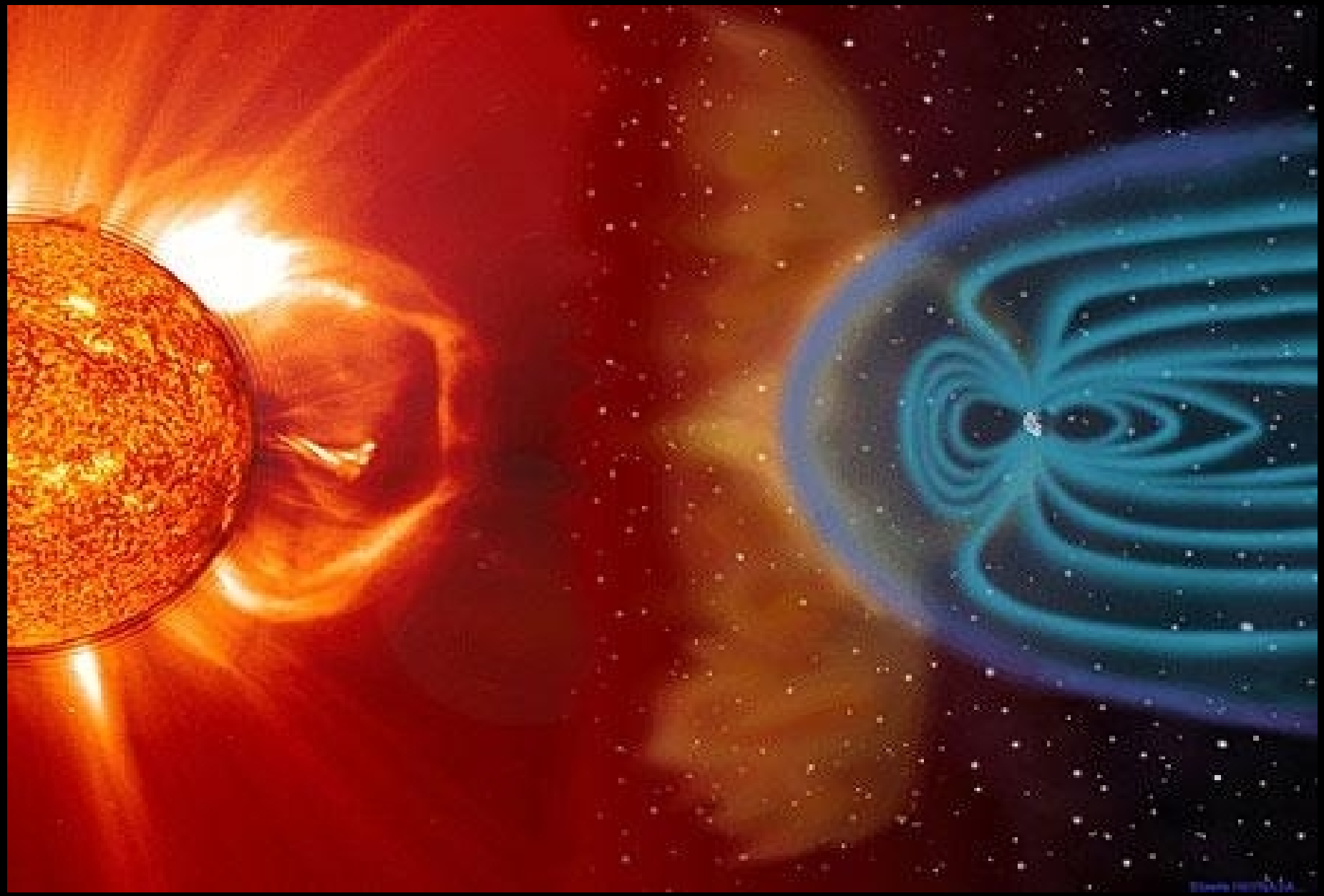




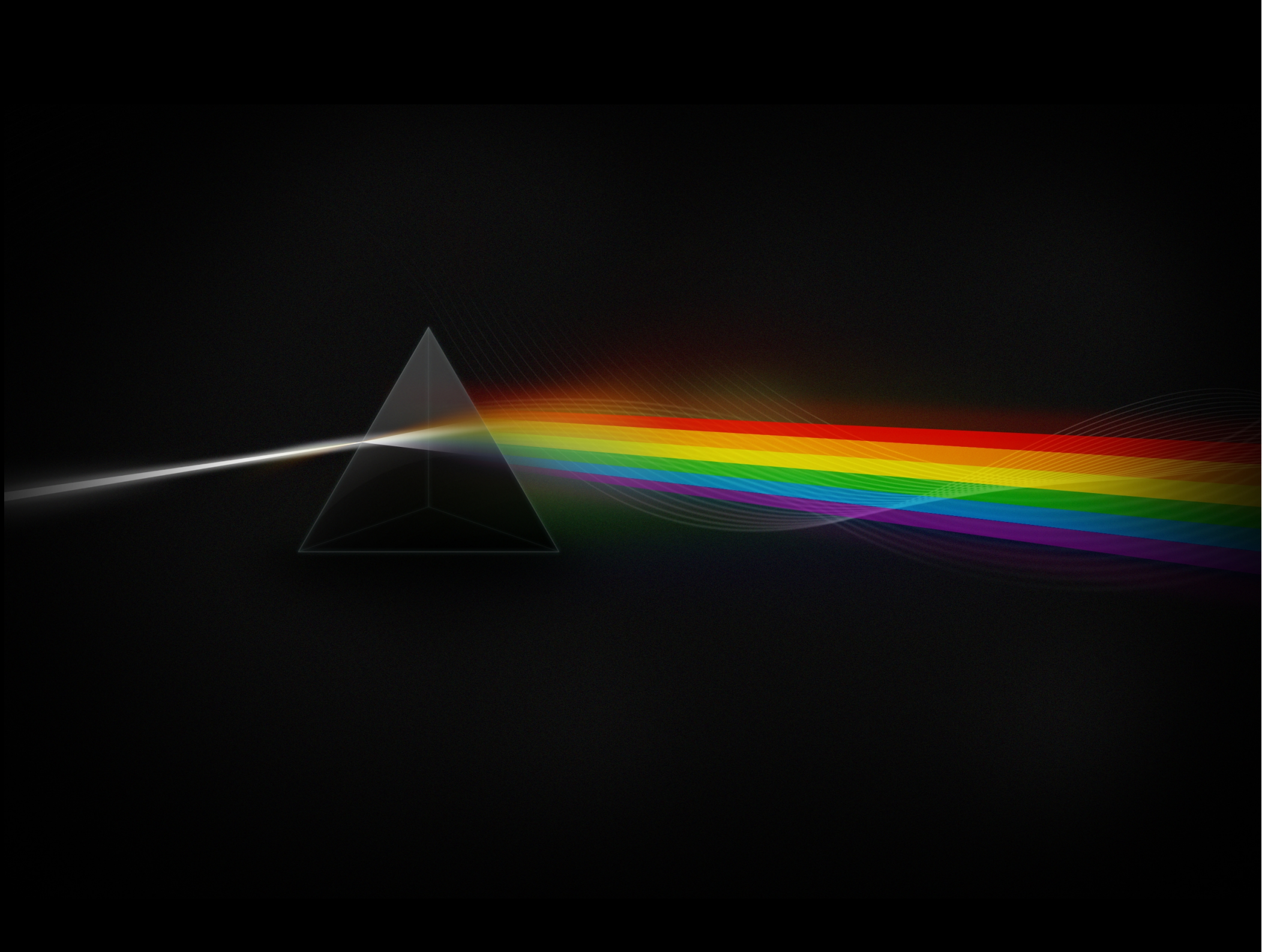

Without Adaptive Optics
With Adaptive Optics

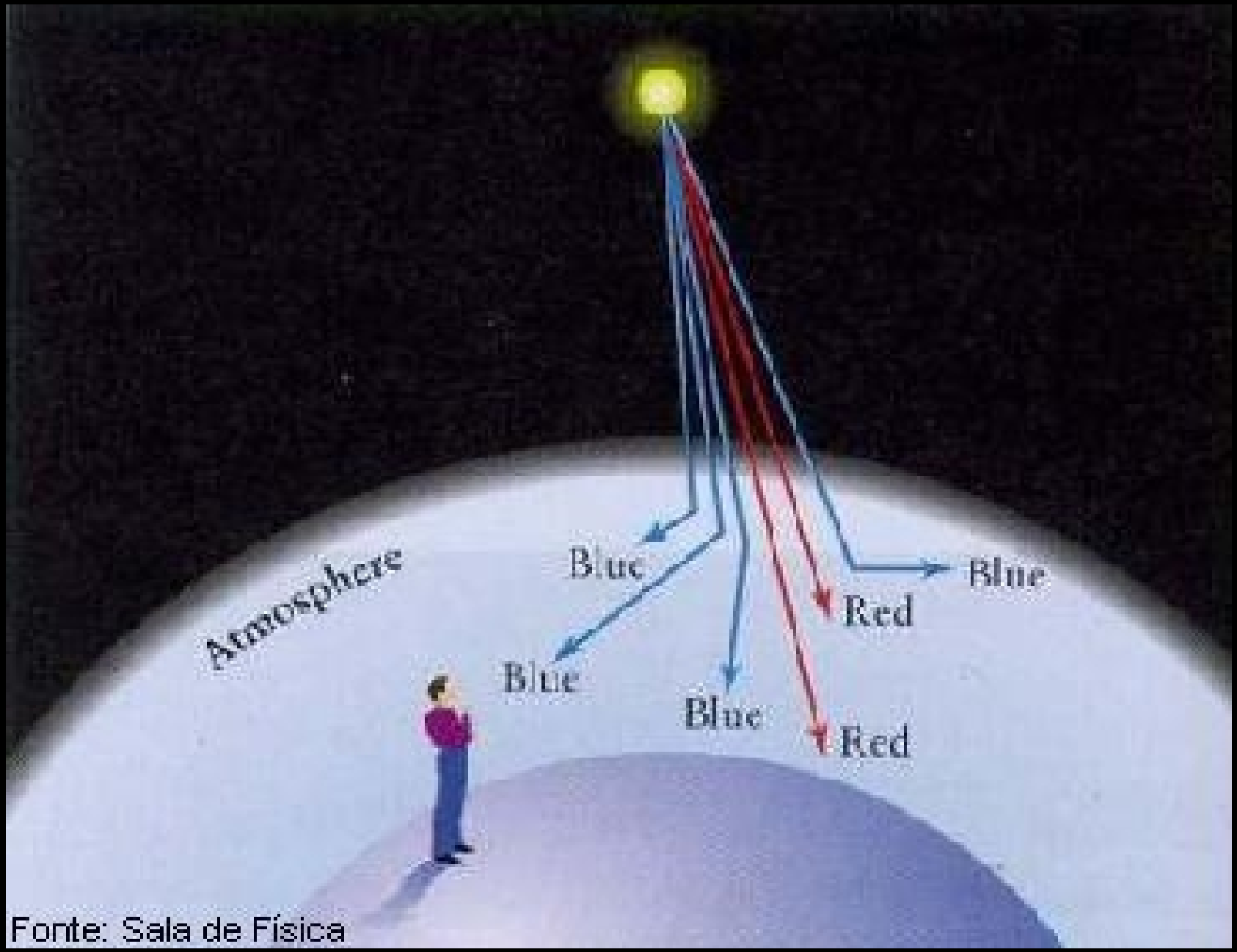



Copyright: Alvin Wu

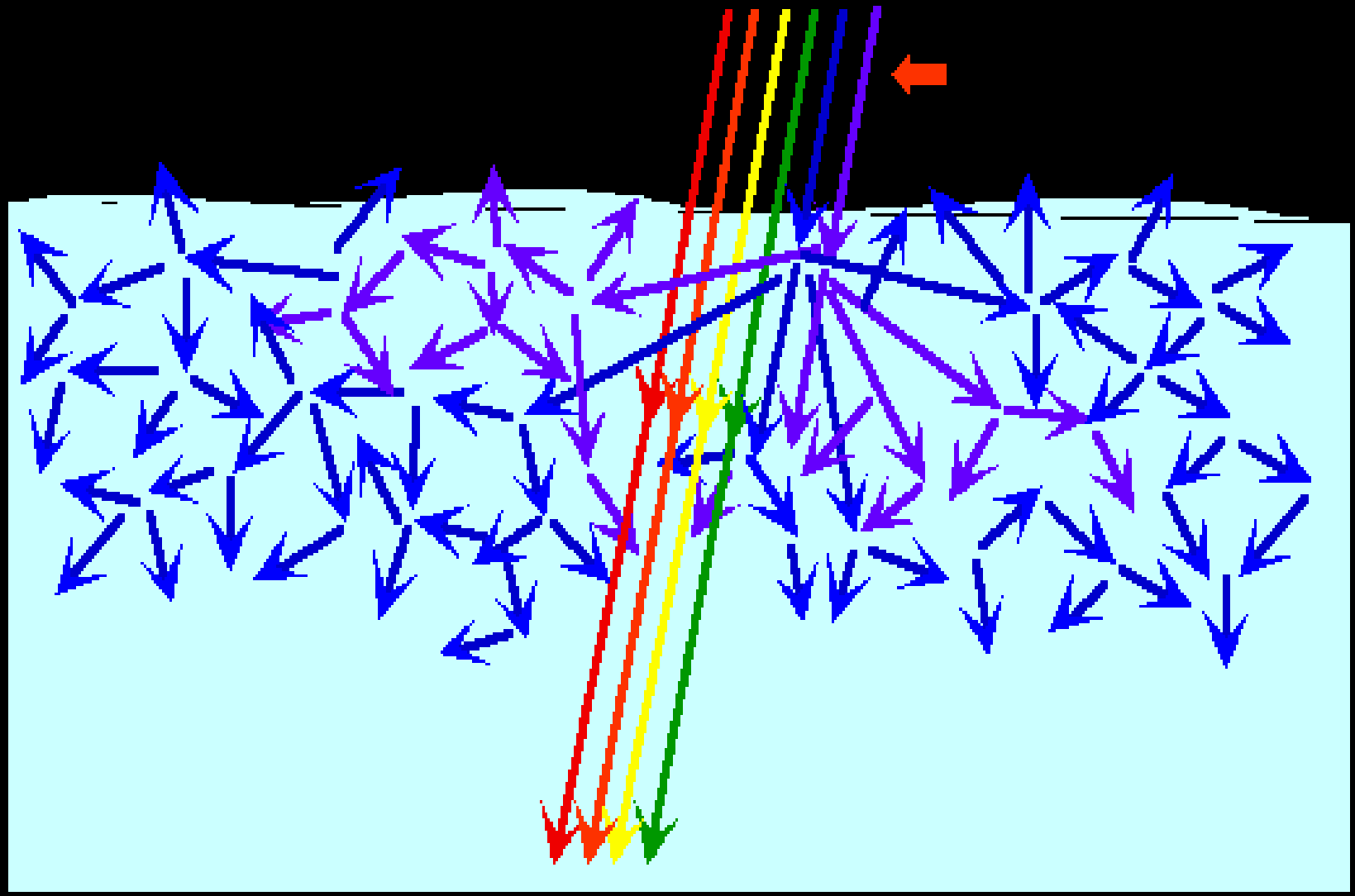


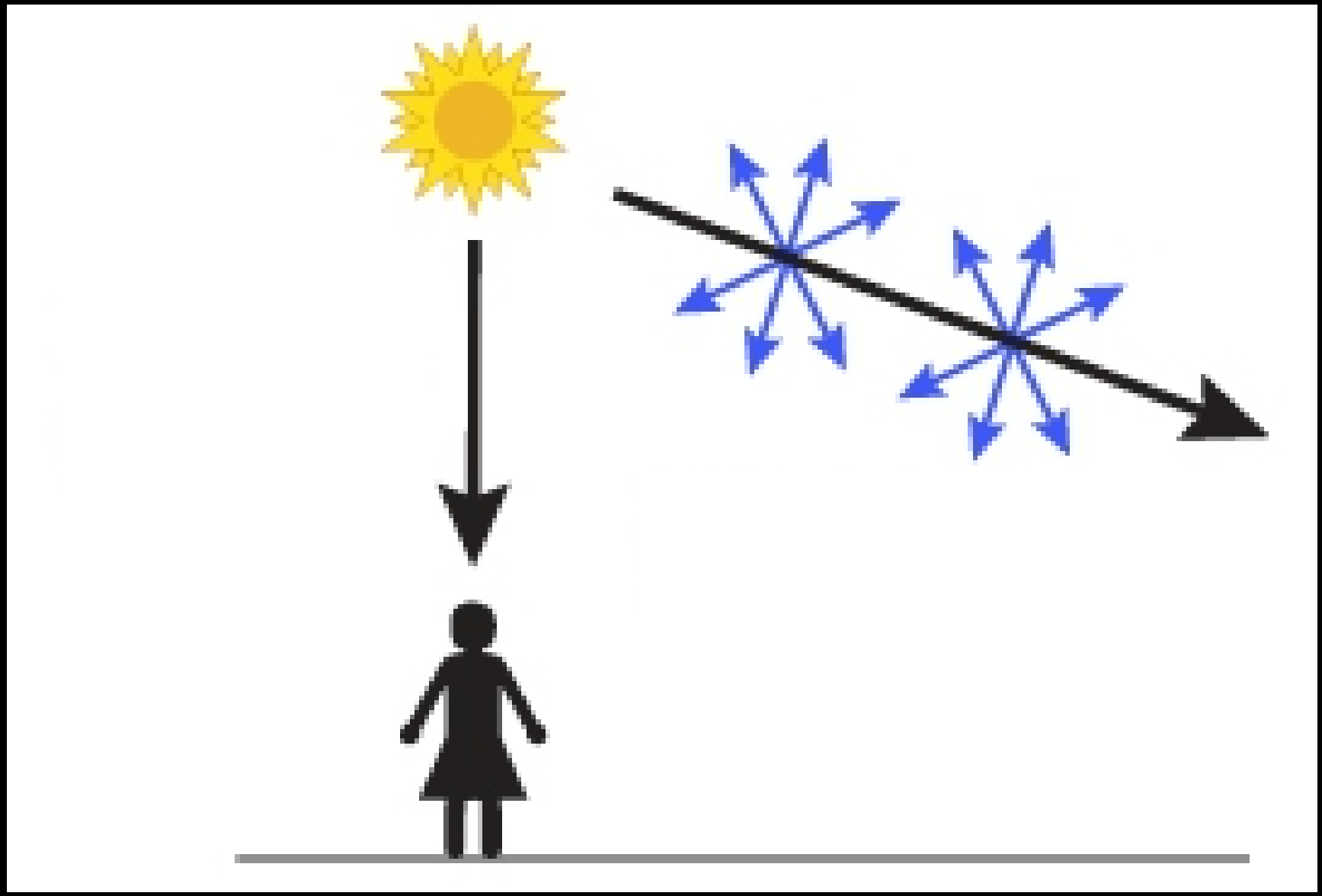

© Max Rive

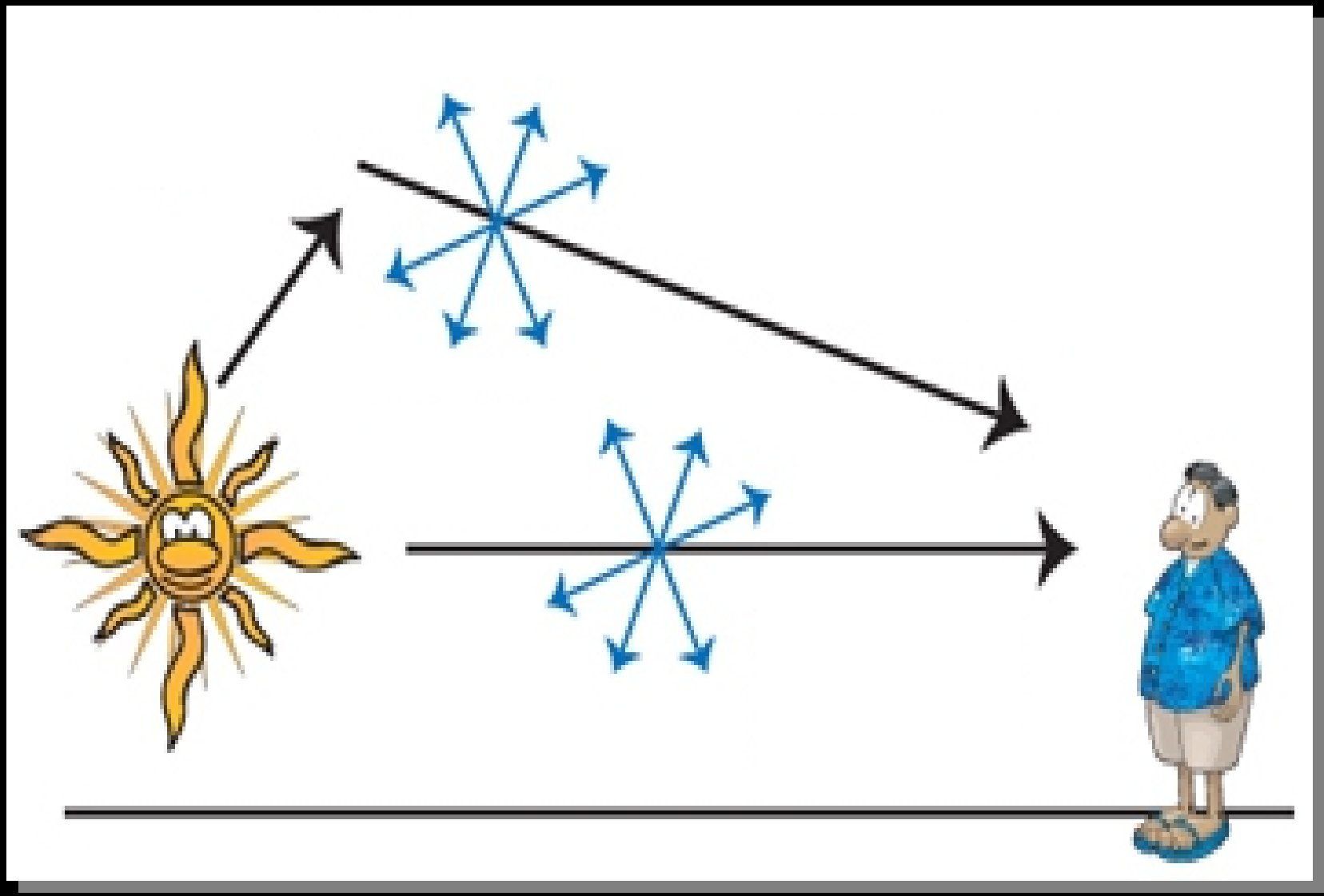




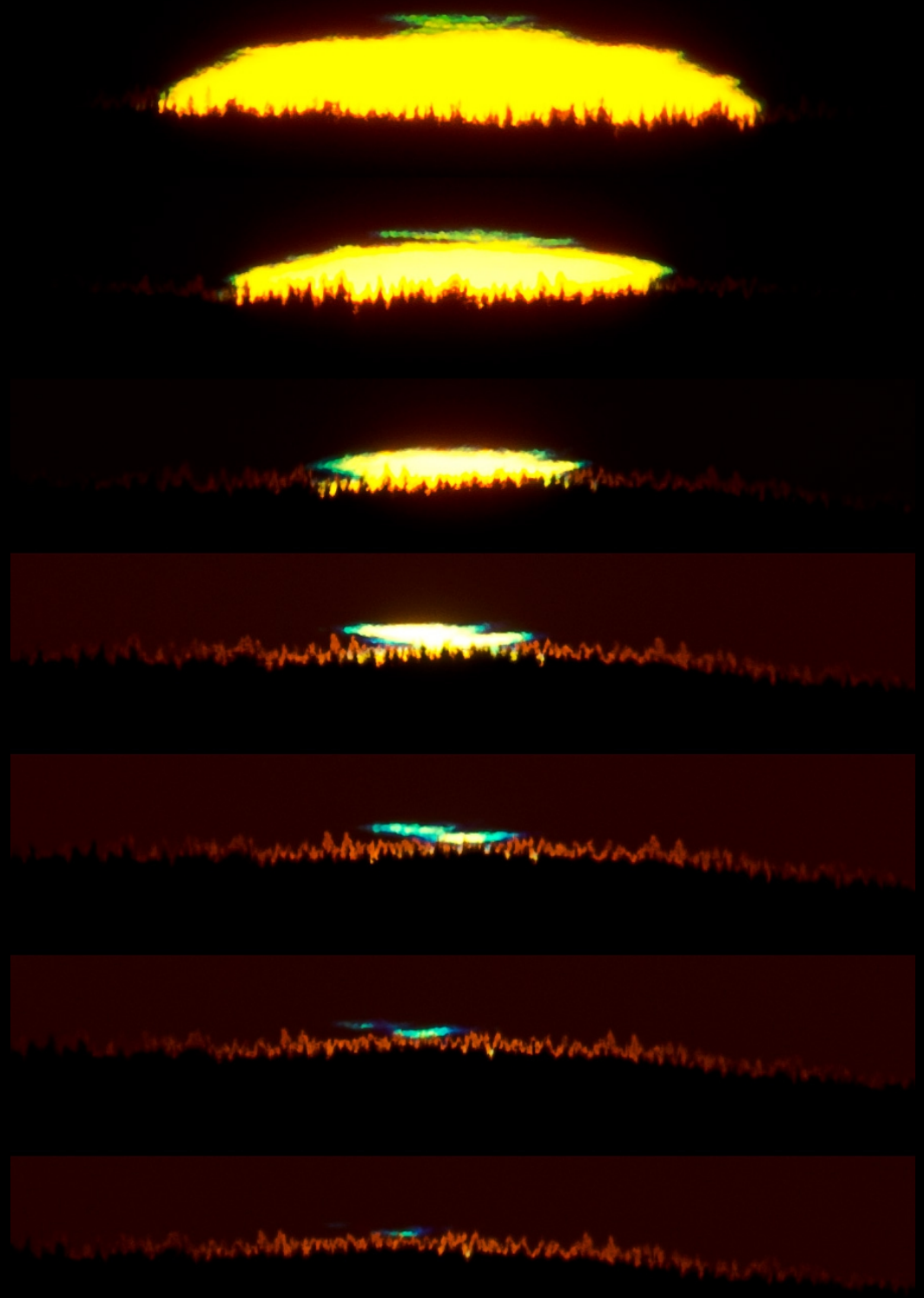
Fonte: Sala de Física








© LaurieHatch.com



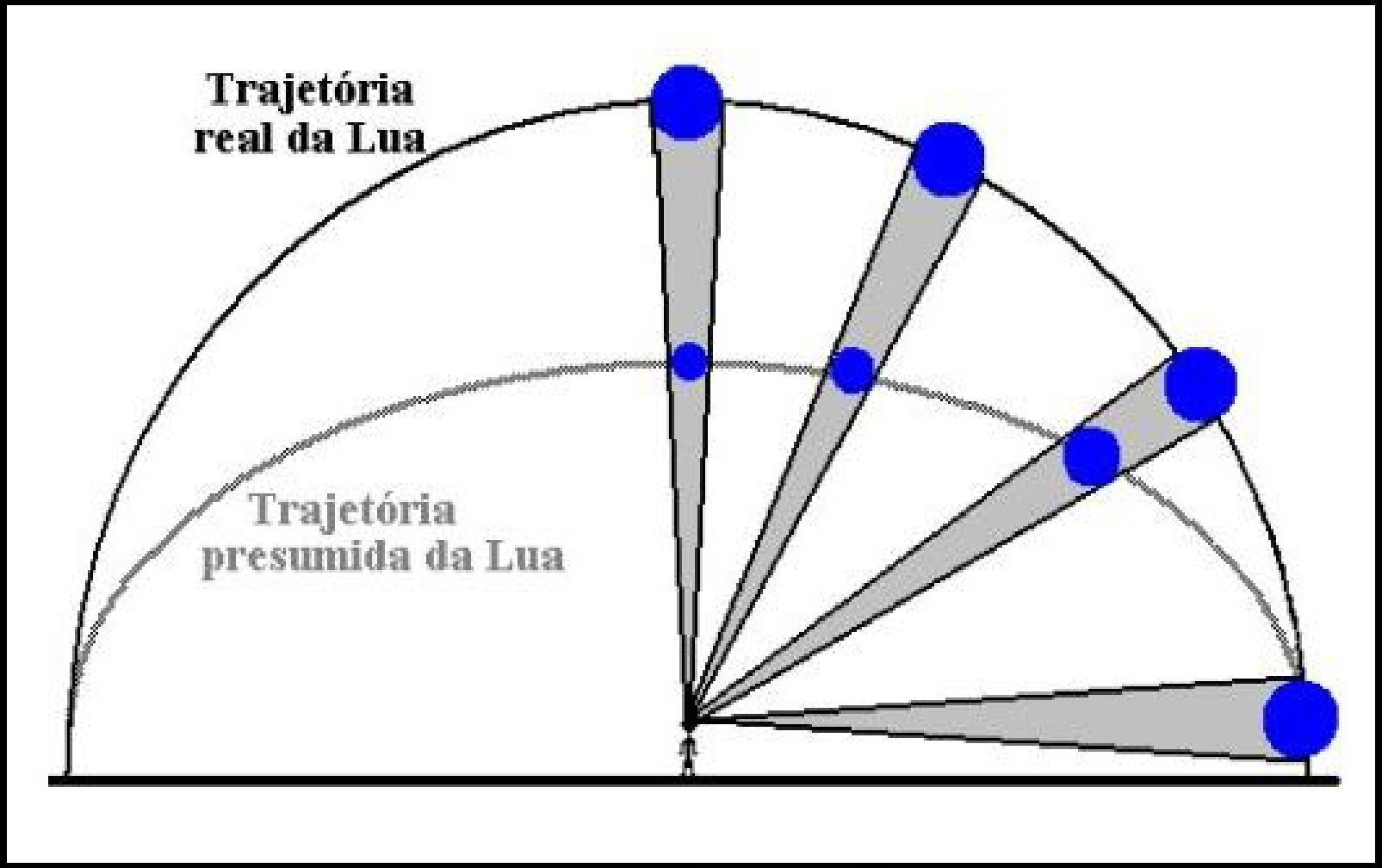

ASTROPHOTOGRAPHER
GÖRAN STRAND
astrofotografen.se


2010-04-17
Pete Lawrence


HSBC


©2013 Jo Hunter, futurshox.net


Bahak Tafreshi

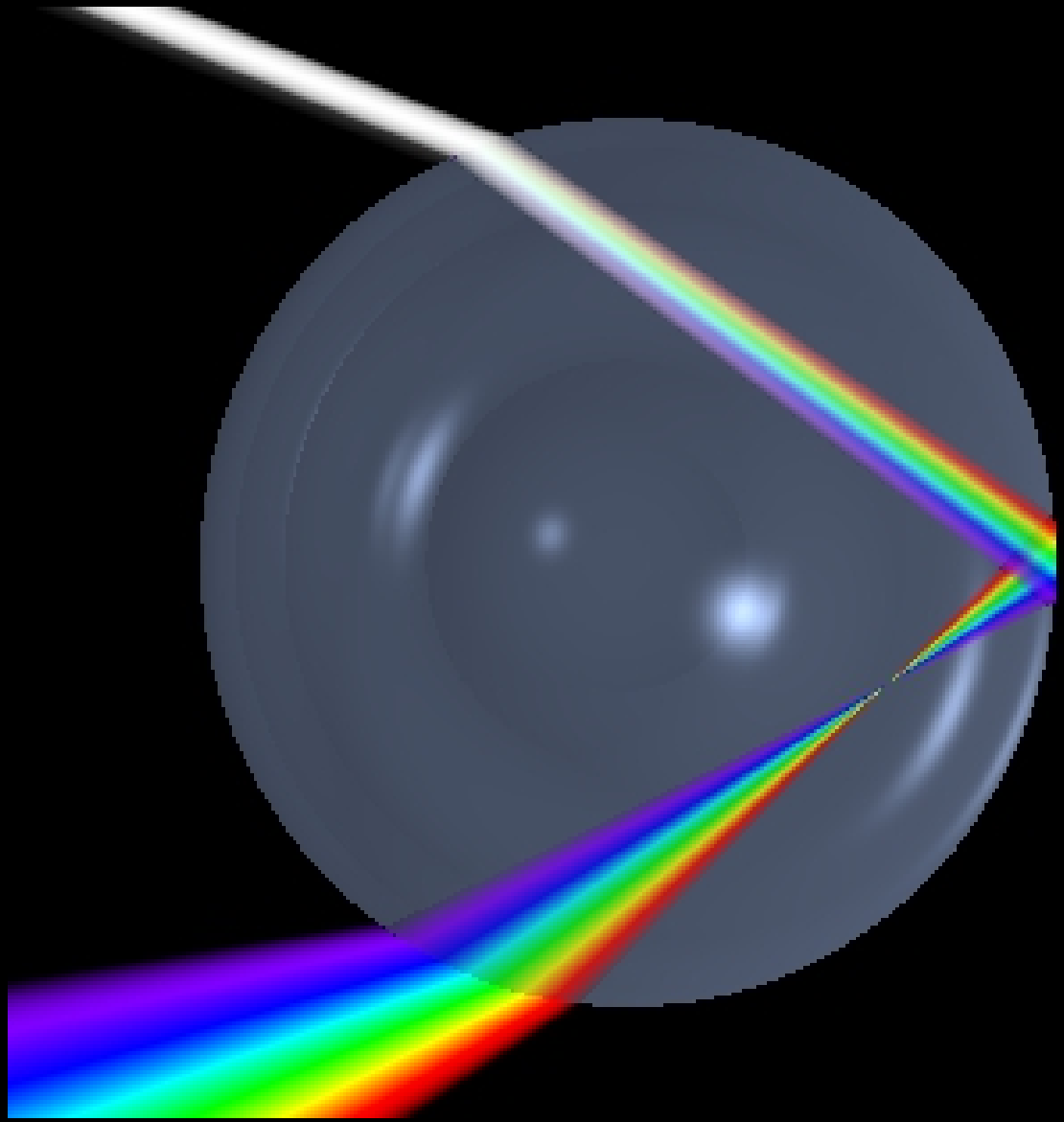

Trajetória
real da Lua
Trajetória
presumida da Lua

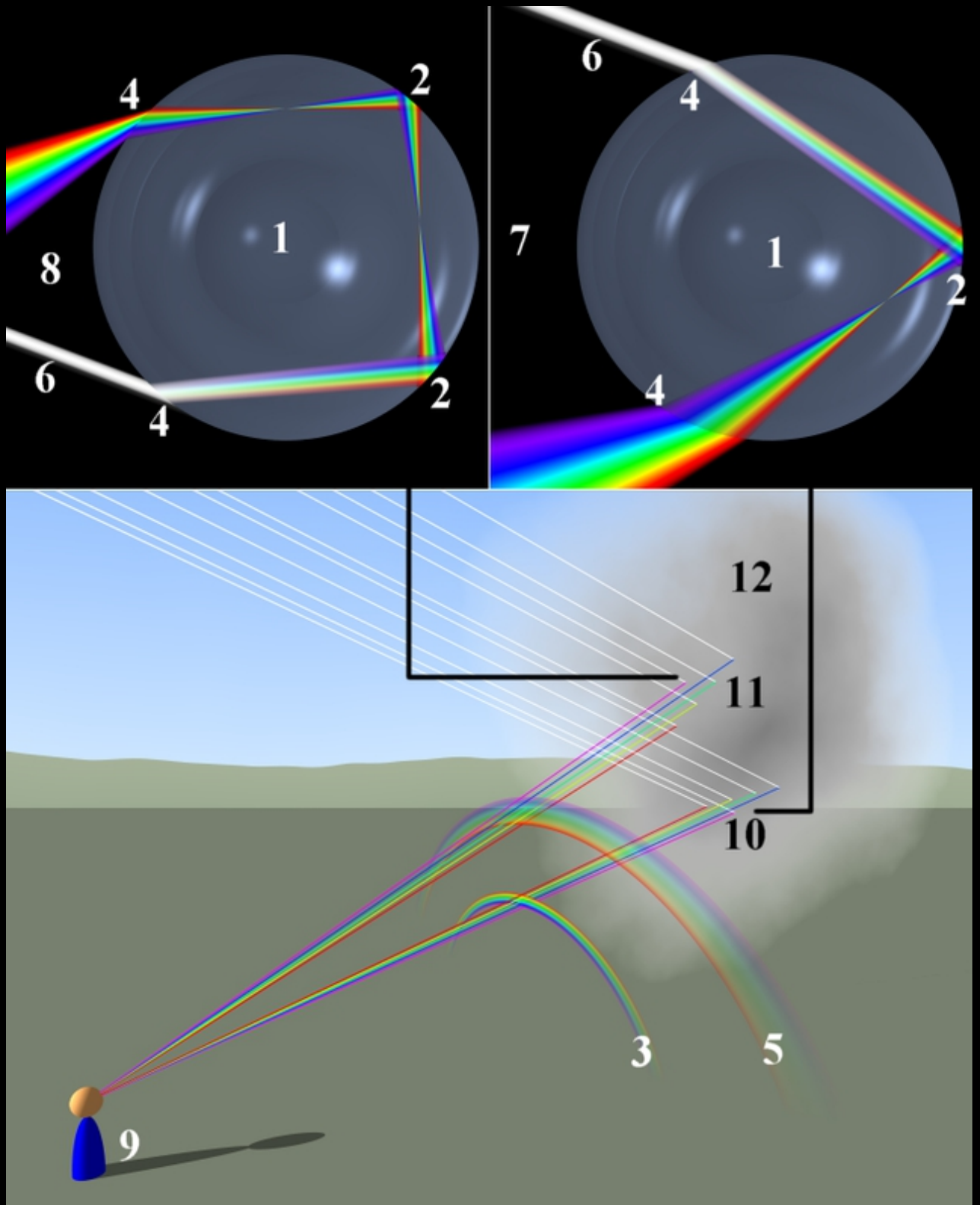

© Babak Tafreshi


P-M Hedén clearskies.se


Copyright © Jorn C Olsen


© Copyright 2004 Eric Nguyen




4
2
1
8
6
4
2
6
4
7
1
2
4
12
11
10
3
5
9


© 2013 BVPVISUALS.COM


© Martin Ratcliffe 2014


© 2010 Peter Rosén

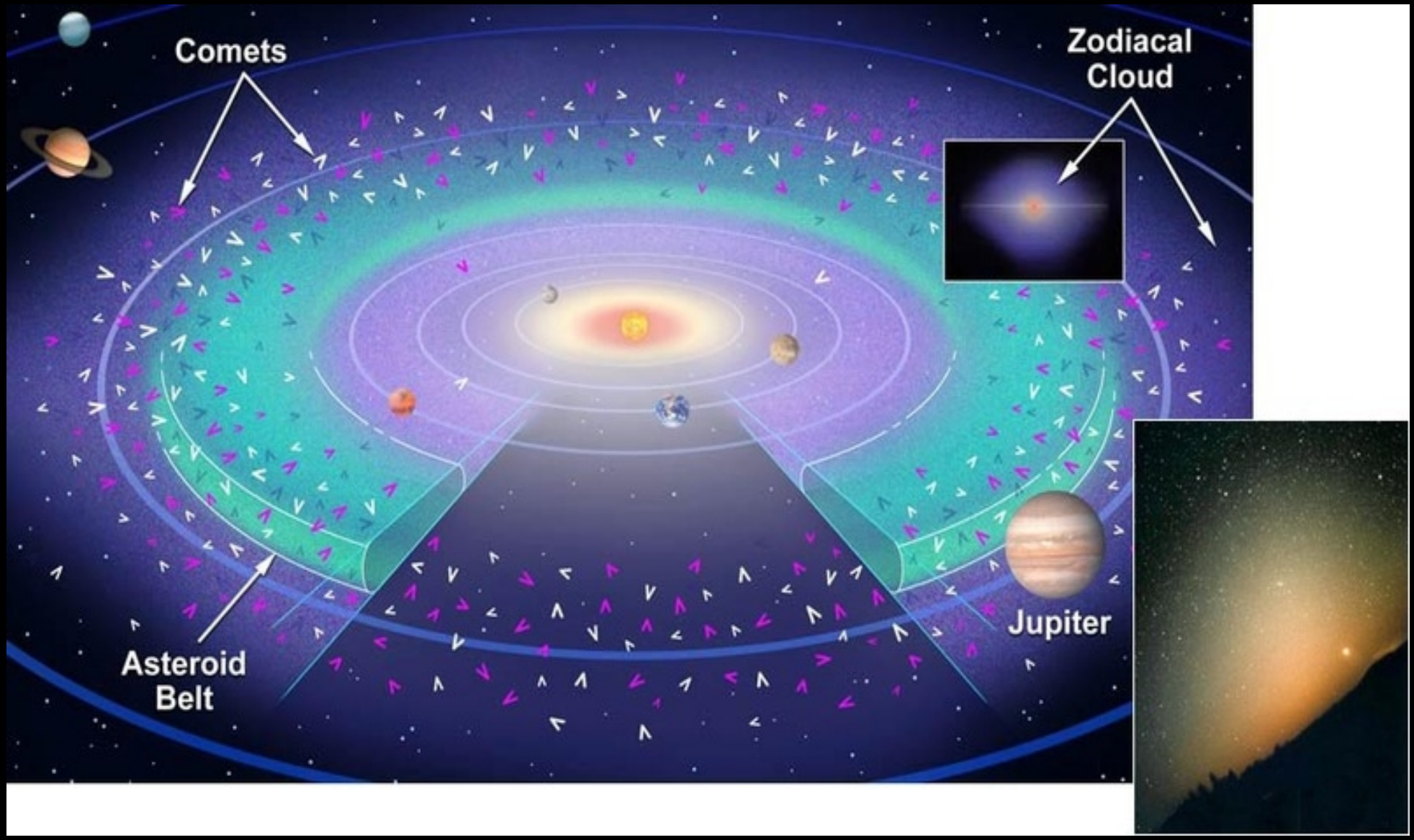

Copyright: Aigar Truhin


LADÁNYI TAMÁS / ASTROPHOTO.H


www.kopfgeist.com


© Jeff Dai 2014


YURI
BELETSKY
Nightscape & astronomical photography


Comets
Zodiacal Cloud
Asteroid Belt
Jupiter


Daniel López
cielosdelteide.com


©2008 Yuri Beletsky


Fim