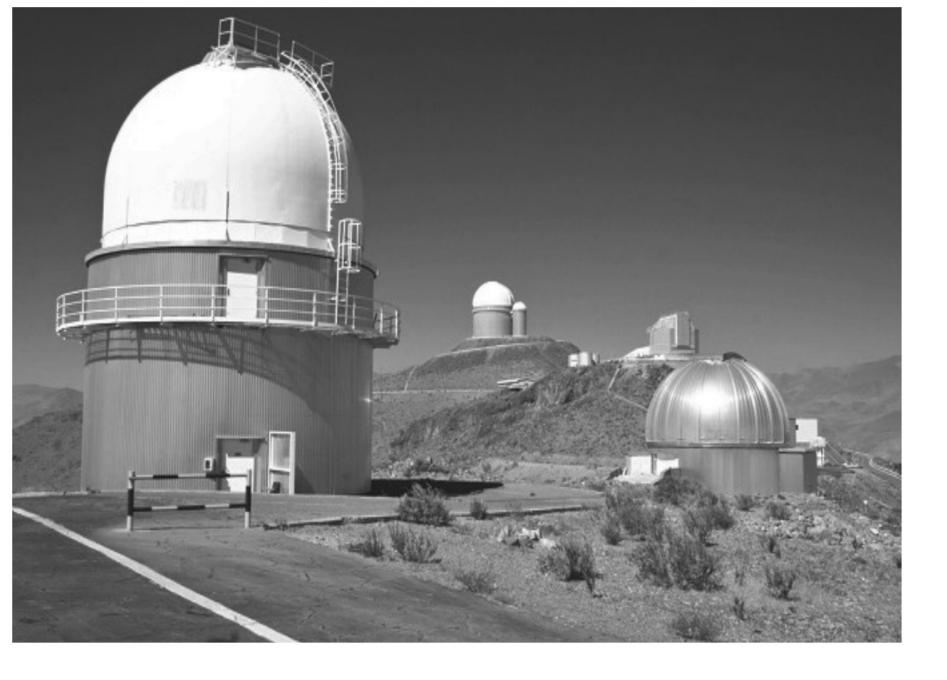
# Trvale udržitelní astronomové/ Sustainable astronomers

Klíčové otázky / Key questions 2020/2021 – COVID-19



Agosto 7, 2020 / Project

## ESO science operations delayed due to COVID-19





Bad news regarding science operations at ESO observatories.

The European Southern Observatory has confirmed that calls for proposal for Period 107 (April-October 2021) are suspended.

## Launch of the James Webb Space Telescope delayed again due to covid-19













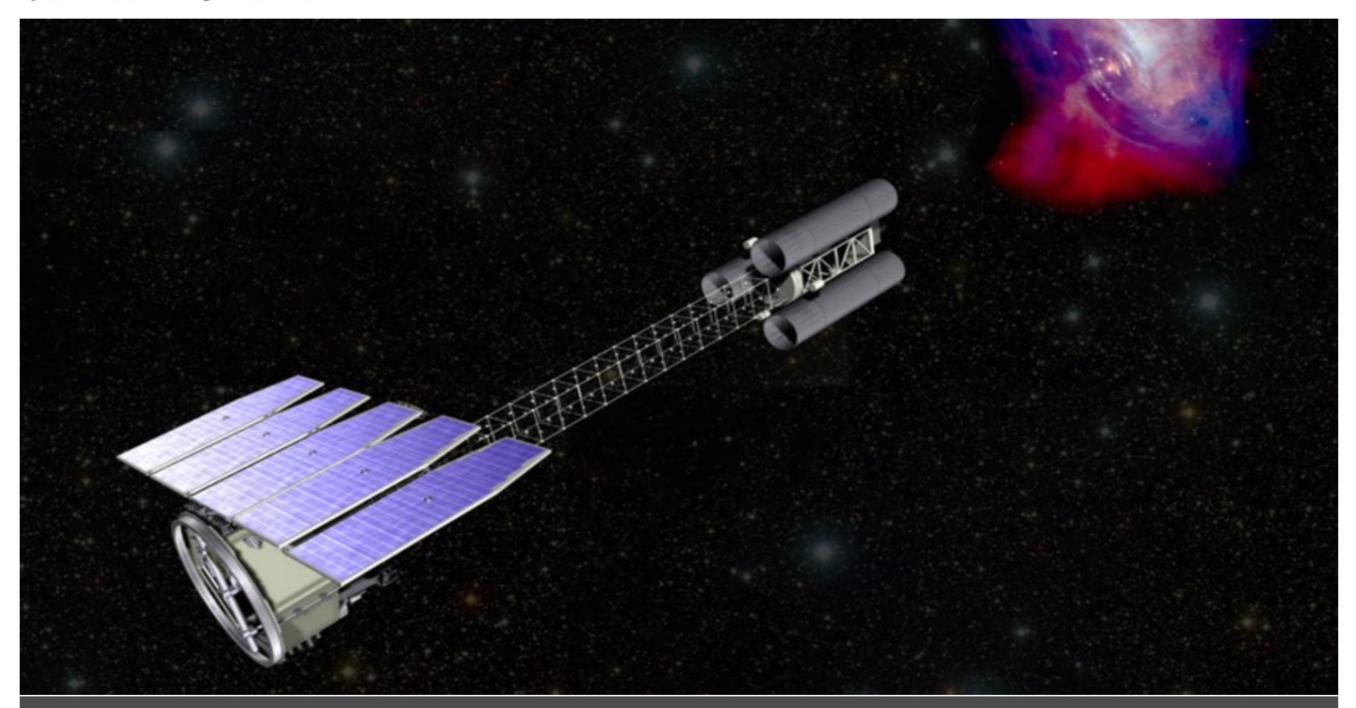


**SPACE** 16 July 2020



## Pandemic delays launch of NASA astrophysics smallsat mission

by **Jeff Foust** — August 6, 2020



An illustration of the Imaging X-ray Polarimetry Explorer (IXPE) spacecraft. Credit: NASA

WASHINGTON — The launch of a NASA astronomy smallsat mission next year will be postponed by several months after the pandemic delayed assembly of key elements of the spacecraft.

**Physics of Fluids** 

**ARTICLE** 

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## "Drake equation" for COVID-19



 $\dot{R}_h$ **Droplets** expelled per second

Average number of virus particles per droplet

Fraction of droplets that make it past the face mask Jah

Fraction of droplets that aerosolize

 $f_{at}$ 

Fraction of aerosolized droplets that reach another person

Fraction of those droplets that contain virus

Fraction of those droplets inhaled by someone not wearing a mask

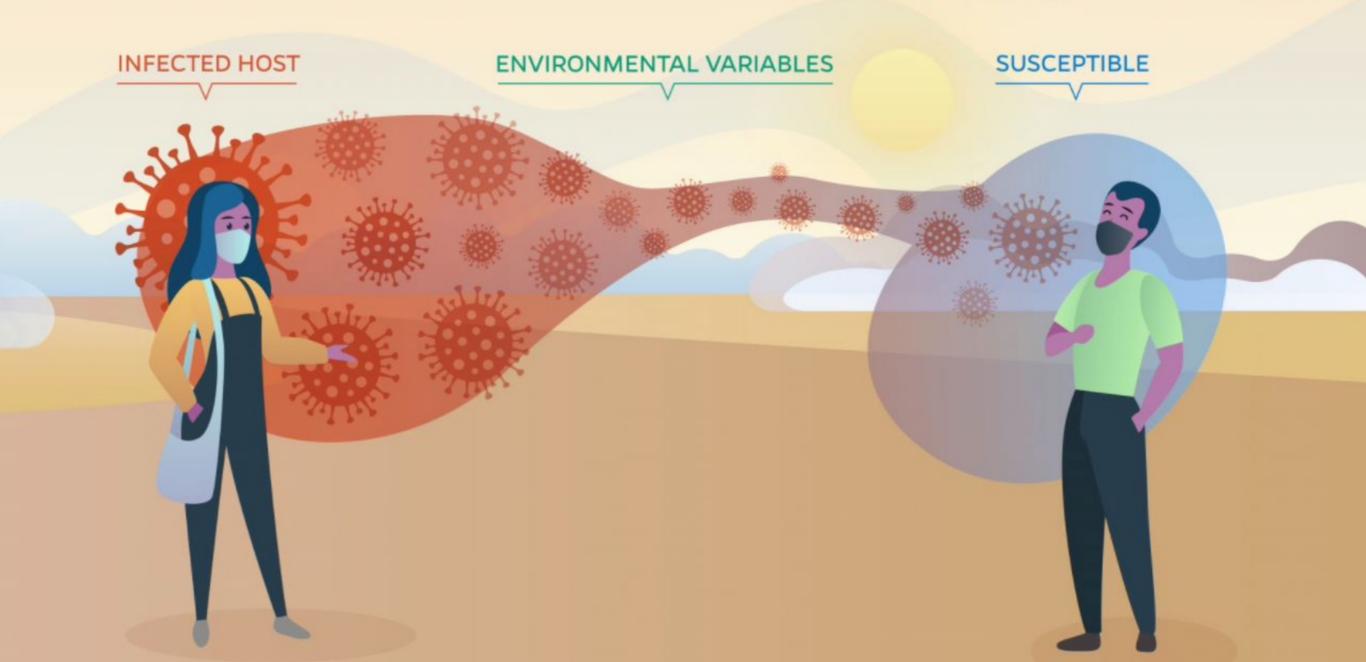
Fraction of droplets that make it through another person's mask  $T_s$ 

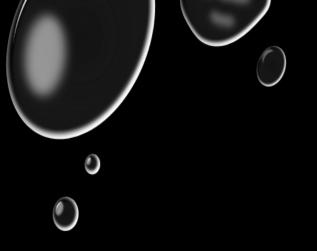
Duration of

exposure

 $N_{C19}$ Minimum inhaled viral load required to cause COVID-19

infection





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