

# It's OKC-day again!



Ariel Goobar, November 15, 2024

## Recent OKC related hires

- Azadeh Fattahi, WAF, associate prof., computational astrophysics, physics/SU
- Jun-Woo Jeoung, assistant prof., experimental particle astrophysics, funded by ALPHA KAW, physics/SU
- Pawel Caputa, associate prof., high-energy theoretical physics (ERC CoG), physics/SU
- Justin Alsing (offer made), assistant prof., data-intensive physics, funded by the new EDUCATE grant, physics/SU
- TBD: associate professor, Neutrino astroparticle physics, physics/SU





# New ERC CoG

**Prof. Paweł Caputa** will work on a project entitled “Quantum Complexity from Quantum Field Theories to Quantum Gravity”. His goal is to develop precise measures of state complexity and operators in quantum theories and employ them *in quantum gravity models to improve our understanding of the interior of black holes and cosmological singularities.*



# New KAW project

## SUPERCOMPUTER CALCULATIONS OPEN UP NEW KNOWLEDGE

Using unique observations from the James Webb Space Telescope, the research project will study galaxies at the time of the first stars and galaxies to determine their properties and impact on reionisation. The observations will then be used to develop entirely new supercomputer calculations to describe the physical processes inside galaxies that produced the ultraviolet radiation that drove reionisation, and how it spread throughout the Universe.

**Research field:** Astrophysics

**Project:** "Rewriting Cosmic Reionization with Next-Generation Observations of the Early Universe"

**Researchers:** Matthew Hayes, Angela Adamo, Garrelt Mellema, Göran Östlin, Stockholm University

**Grant:** SEK 25,000,000 over five years





# Say hi to new PhD students and postdocs!

## New PhD studens

- Jacob Osman Hjortlund, CoPS, Fall 2024
- Antoine Gilles-Lordet, CoPS, Fall 2024
- Thong Nguyen, CoPS, Spring 2024
- Alice Young, Astronomy, Spring 2023
- Suhyeon Choe, Astronomy, Spring 2023
- Yang Hu, Astronomy, Fall 2023
- Konstantinos Tsalapatas, Astronomy, Fall 2024
- Charalampos Nikolis, CoPS, Fall 2024
- Ludwig Neste, ELPA, Fall 2023
- Xiangwen Guan, CoPS, Fall 2024
- Filip af Malmberg (KTH, astrophysics, July 2024)
- Renske Wierda (KTH, particle experiment, Nov 2023)
- Christos Tegkelidis (KTH, astrophysics, Aug 2024)
- Emil Zaya (KTH, particle experiment, Sep 2024)
- Andreas Lund (KTH, particle theory, Sep 2024)
- Blanka Vilagos, astronomy, Sep 2024)
- ...

## New postdocs

- Milena Crnogorčević, CoPS, Fall 2023
- Cameron Lemon, CoPS, Spring 2024
- Alberto Saldana-Lopez, Astronomy, Fall 2023
- Helena Faustino Vieira, Astronomy, Fall 2024
- Dominik Fuchs, CoPS,
- Giuseppe Di Giulio, CoPS, Fall 2024
- Gangopadhyay, Anjasha, Astronomy, Fall 2024
- Singh, Avinash, Astronomy, Fall 2024
- Etienne Russeil, Astronomy, Spring 2025
- Oindrila Ghosh, CoPS, Spring 2023
- Joshua Eby, CoPS, Fall 2023
- Aleksandr Chatrchyan (50%), CoPS, Fall 2024
- Christina Dimitriadi, KTH (particle experiment), Fall 2024
- ...

[Help us with missing names!](#)



# OKC Organisation

- Director (+3 deputies), Steering Group, International Advisory Board
- Steering Group, renewed every 3 years

CoPS: Tim Linden, David Marsch, Jens Jasche

ELPA: David Misted, Christophe Clement, Chad Finley

ASTRO: Evan O'Connor, Ragnhild Lunnan, Matthew Hayes

KTH: Christian Ohm, Josefin Larsson, Sandhya Choubey

- 6 SWGs: Extreme Objects, Beyond SM, Cosmology and Gravity, Theoretical Cosmology, Theory, Machine Learning
- Communication manager: Jonas Enander



OKC is in great shape.

But, we must be constantly improve to remain attractive and competitive.

OKC days is a great forum to discuss how.

Let's make this a great OKC-day!