

# Concluding remarks

Subir Sarkar



<https://subirfest.web.ox.ac.uk/>

## Organisers

[Amanda Cooper-Sarkar](#) (Oxford)

[Herbi Dreiner](#) (Bonn)

[Philipp Mertsch](#) (Aachen)

[Roya Mohayaee](#) (Paris)

[Subodh Patil](#) (Leiden)

## Speakers

[Steven Abel](#) (Durham)

[Jenni Adams](#) (Christchurch)

[Luis Anchordoqui](#) (New York)

[Ed Copeland](#) (Nottingham)

[Ruth Durrer](#) (Geneva)

[John Ellis](#) (London)

[Wyn Evans](#) (Cambridge)

[Francesc Ferrer](#) (St. Louis)

[Gianluca Gregori](#) (Oxford)

[Jim Hinton](#) (Heidelberg)

[Dan Hooper](#) (Chicago)

[Felix Kahlhoefer](#) (Karlsruhe)

[Johannes Knapp](#) (Zeuthen)

[Philipp Mertsch](#) (Aachen)

[Antonio Masiero](#) (Padova)

[Paolo Molaro](#) (Trieste)

[Keith Olive](#) (Minnesota)

[Subodh Patil](#) (Leiden)

[Elisa Resconi](#) (Munich)

[Mario Santos](#) (Cape Town)

[Nathan Secrest](#) (Washington)

[Arman Shafieloo](#) (Daejeon)

[Andrew Taylor](#) (Berlin)

[Samuel Ting](#) (Boston)

[Christos Tsagas](#) (Thessaloniki)

[Sebastian von Hausegger](#) (Oxford)

[Alan Watson](#) (Leeds)

Oxford, 11-13 September 2023

Johannes Knapp, DESY  
**Subir and the amazing boom in Astroparticle Physics**

Dark matter hurricanes, cyclones and downbursts  
N.W. Evans (Cambridge)

Echoes from Cen A's Active Past  
Cosmic rays and galactic dust: maverick

The Dipole Problem in Cosmology  
Steve Abel (IPPP)  
Nathan Secrest  
U.S. Naval Observatory

Status of the Concordance Model of Cosmology  
Arman Shafieloo,  
Korea Astronomy and Space Science Institute (KASI)

**Very High Energy Gamma Rays**  
Jim Hinton, MPIK, Heidelberg

Astrophysical Probes of Lorentz Violation  
John Ellis

The AMS Experiment on the Space Station  
S. Ting

Are primordial fluctuations really scale invariant?  
Subodh Patil

Primordial Black Holes and Stochastic Inflation: Noise terms can be important  
Ed Copeland - University of Nottingham

Cosmology with MeerKAT and the SKA  
Mário G. Santos, University of the Western Cape

Subir, High Energy Neutrinos and the Pierre Auger Observatory  
- friend and fellow neutrino hunter  
Alan Watson

Reconstruction in Cosmology  
Sebastian von Hausegger  
Antonio Masiero  
Paolo Molaro

Light hidden BSM physics for the  $(g-2)_\mu$  puzzle

Laser experiments probing cosmic ray transport in the laboratory  
Subir,  
I have a question for you  
Elisa Resconi  
Technical University of Munich

origins

**From Auger to FPE**  
Luis Anchordoqui  
USY

Tilted universes and the deceleration parameter  
Christos G. Tsagas

Pondering Cosmic Rays (among other things) with Subir  
Dan Hooper - Fermilab and the University of Chicago



Francesc Ferrer, Washington University in St. Louis

Interactions about self-interacting dark matter  
Recent updates to Big Bang Nucleosynthesis  
Keith Olive  
Felix Kahl

My two cents on the cosmic dipole  
Ruth Durrer

Thanks to all the organisers for putting this together (and to the supporters behind the scenes)



Mandy

Herbi

Roya

Phillip

Subodh

Michelle

Sue

Julia

Ian

... and to all the speakers for their wonderful talks!



Steve

Jenni

Luis

Ed

Ruth

John

Wyn

Francesc

Gianluca



Jim

Dan

Felix

Johannes

Phillip

Antonio

Paolo

Keith

Subodh



Elisa

Mario

Nathan

Arman

Andy

Sam

Christos

Sebastian

Alan

Particular thanks to Michelle who made all the magic happen!



# I must say thank you to a large number of people ...

- My ex-students & postdocs – for their perseverance (and even affection!)
- My collaborators & colleagues who have supported me all these years
  - My teachers & mentors, from whom I have learnt what little I know
    - My family & other animals without whom I would not be here

... The journey has indeed been its own reward

Special thanks to those who have shaped me as a scientist ...



Ram Cowsik (1940-)



Dennis Sciama (1926-1999)



Graham Ross (1944-2021)

... and as a human being





Thank you all for coming!