



# KCETA Colloquium

## Know your footprint – in High Energy Physics and related fields

**Thursday, May 02, 2024**

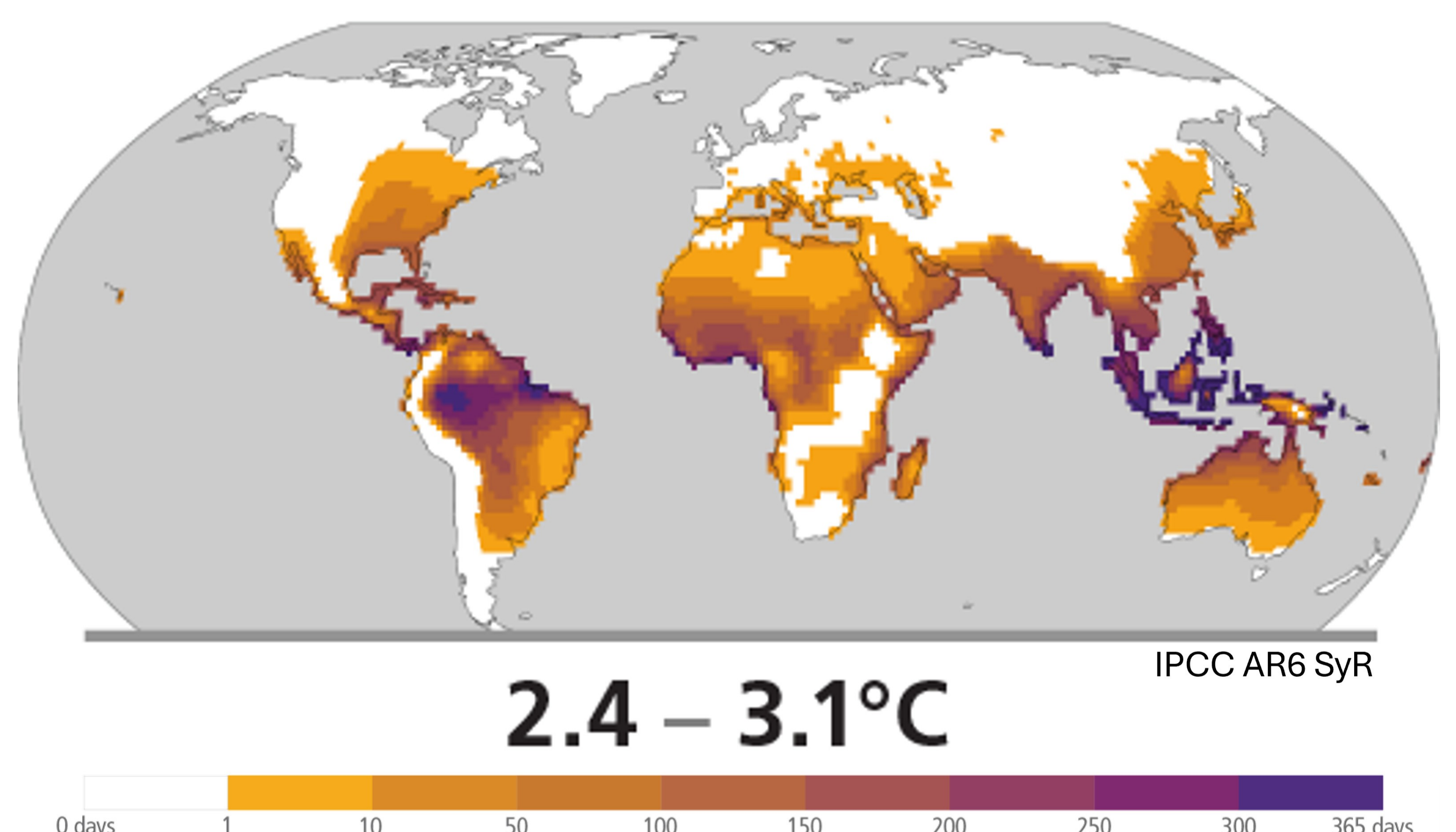
**Kleiner Hörsaal A (CS) 15:45 - 17:00**

**Dr. Valerie Lang**  
(University of Freiburg)

The continuous progression of the climate crisis necessitates the understanding of the environmental impact of professional activities, especially in sectors that historically have had significant resource utilisation, such as High Energy Physics (HEP) and related fields. The first step to mitigation of emissions is to: Know your footprint. Identifying the dominant factors of CO<sub>2</sub> emissions generated by HEP-related research will allow to define targeted measures for their reduction.

For researchers in HEP and related fields, emissions from four distinct categories are investigated: Experiments, Institutes, Computing, and Travel. The Know-your-footprint (Kyf) calculator allows researchers to estimate their own professional carbon footprint, in comparison to the private footprint, based on life and work in and related to Germany.

This talk will present the basis of the Kyf calculator and discuss some of the available options, together with a benchmark scenario of a doctoral researcher in HEP. The aim of the Kyf calculator is to heighten awareness, foster sustainability, and inspire the community to adopt more environmentally-responsible research methodologies. Personal tests of the Kyf calculator are highly encouraged.



**Please note: The colloquium will also be live-streamed to B402 SR 224 (CN).**

KIT Center Elementary Particle and Astroparticle Physics (KCETA)  
[www.kceta.kit.edu](http://www.kceta.kit.edu)