

**Anurag Dipankar, EXCLAIM, ETH Zurich**

**Tropical convection: challenges and opportunities.**

Challenges in modelling tropical convection have been long known to both climate and weather modelling communities. It is this part of the planet where global models show most of the differences. Understanding where these differences come from is ongoing research. In this talk, I will show how the inadequate treatment of clouds and convection in our models affects weather forecasting over the city-state Singapore and discuss the key role of the open ETH project EXCLAIM to better understand the problem.