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NT User Workshop – Introduction

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ERLANGEN CENTRE
FOR ASTROPARTICLE
PHYSICS

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Neutrino telescopes as observatories

- Observatory =
Instrument providing observational data to users
- Immediate questions:
 - Who are the users?
 - What are the users' needs?
 - Which data are provided, when, and in what format?
 - What does this mean for the NT operation?
 - What is the relation to other observatories?
 - How do we manage authorship, publication responsibility etc.?

KM3NeT Preparatory Phase

- Work package “User support ...”:
... organise workshops of the potential user communities of the KM3NeT neutrino telescope data. ...”
- Obvious user community: Neutrino astronomers
- Further potential users:
 - Astro- and astroparticle physicists from other fields (the “multi-messenger community”)
 - Associated sciences

Why not proceed as we always did?

- Research infrastructures will probably not be endorsed and funded if they aren't open to all users.
- We face a change of paradigm in our research:
“Doing an experiment” was yesterday
“Operating an observatory” is tomorrow.
- Collecting the relevant questions is as important as finding the appropriate answers.
- Today: Discuss the view of neutrino astronomers but also consider needs beyond this community

Directional triggers

- Idea: Online filters may be adjusted to provide particular sensitivity for given celestial directions
- ANTARES results indicate that this is feasible
- Consequences:
 - Observation time allocation
 - Reaction to “flare alerts”, data buffering?
 - Coordination with other observatories
 - “Intellectual property rights”

Today's program

- Introductory presentations:
 - Tyce DeYoung: Astrophysical Multi-messenger observatory network (AMOS)
 - Paolo Piattelli: HEAP-MM and its ideas
 - Uli Katz: Global Neutrino Observatory
- Panel discussion:
 - On the panel:
P. Coyle, M. de Jong, T. DeYoung, A. Kappes, P. Piattelli
 - Moderator: U. Katz
 - Please contribute!

Please keep in mind:
This is a discussion session!