# **CEVNS** data sharing

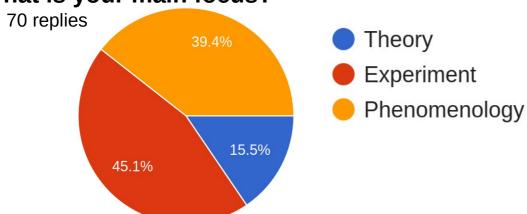
Janina Hakenmüller, prepared for the discussion session



### **Participants**

52 responses in total → Many thanks to everybody!

What is your main focus?



#### **Collaborations:**

(voluntary information)

COHERENT (10) CCM (2)
NUCLEUS (3) RELIS
CONNIE CDEX

TEXONO LEGEND (2) CONUS (2) PROSPECT RED-100 DarkSide

**NuGEN** 

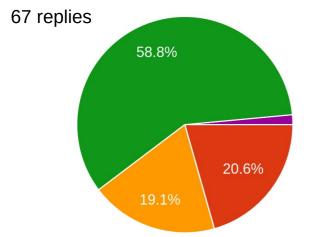
Miner

SBC

**PALEOCCENE** 

CRAB nuESS 10 spokespersons

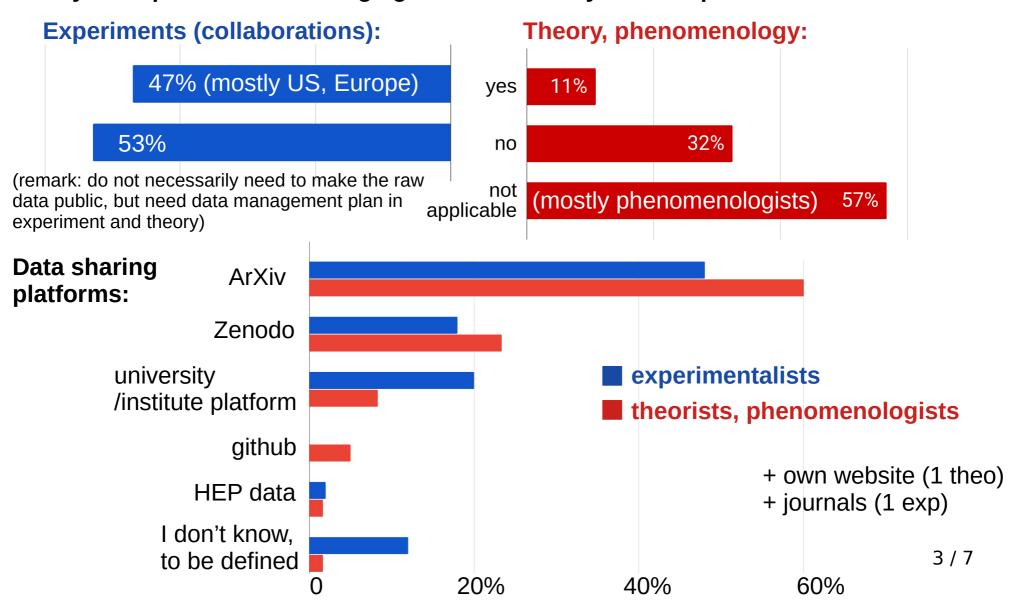
#### What is your current position?



- undergraduate, bachelor student
- graduate student, Phd student, master student
- postdoc
- professor, staff scientist, permanent researcher
- Nuclear nonproliferation / Policy ( application of neutrino tech)

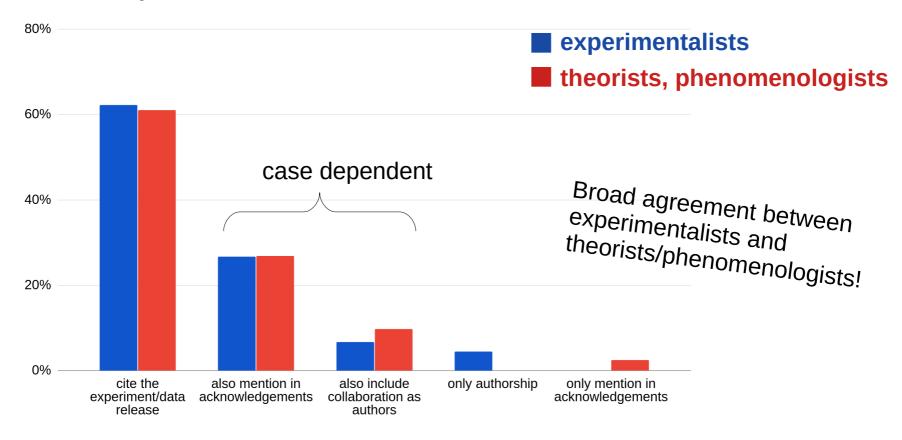
## Requirements and platforms

Are you required from funding agencies to make your data public?



## Credit to experiments

If public data is used in a publication, how do you think the experiments/experimenters should be credited?

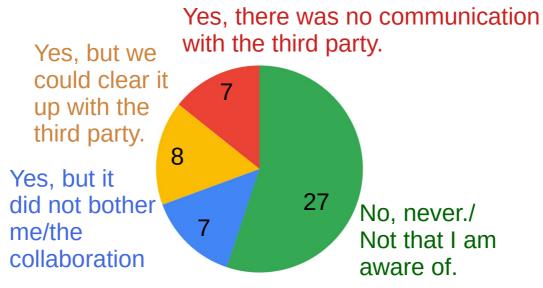


#### Spokepersons from two experiments:

- write explicitly in the text in the context how the data was used
- If the collaboration helped in the use of data, acknowledgment or even authorship is warranted

### Issues and concerns

Did you ever have the impression that your data/information provided in a publication were used in an incorrect way by a third party?



(response "not applicable" mostly by pheno not shown)

#### Have you ever been discouraged by an experimentalist from working with their data?

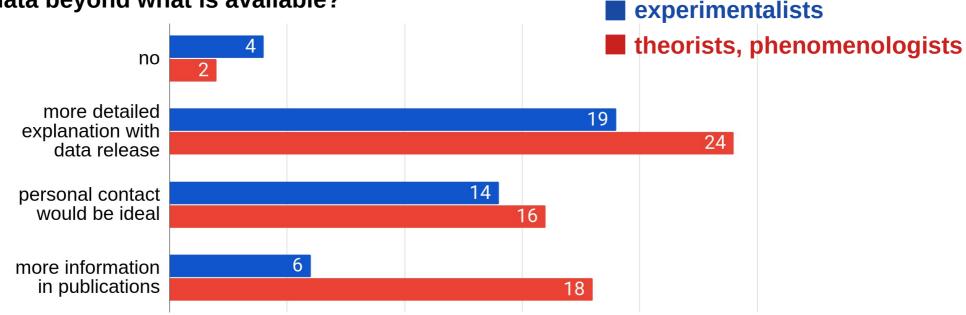
- Experimentalists: **3 yes**, 16 no, 12 not applicable
- Theorists/Phenomenologists: 8 yes, 24 no, 7 not applicable

#### <u>Direct statements by Phenomenologists:</u>

- outside the CEvNS community broadly data is usually not available
- no replies to emails
- Data release did not match figures in the publication
- Given private figures for efficiencies

### Improvements, ideas & suggestions

When working with third party data, do you think you need more information on the data beyond what is available?



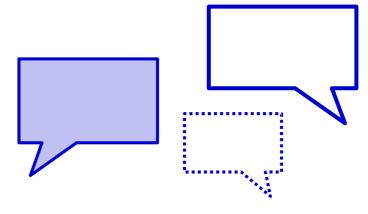
#### **Data format:**

- common way to present data between experiments/standardized form of data releases
- keep the format for the data release similar from one measurement to the next to avoid needed to rewrite scripts

#### Additional information people are interested in:

- small sample of code would be ideal as with the 2017 Coherent CsI data release
- peer reviewed data sets to ensure not information is missing?
- unpublished "private communication" information, have explicit explanations in text
- README to reproduce plots in publications

### **Discussion**



#### Ideas:

- standardized form of data release, common presentation? (several comments)
- peer-reviewed data releases?
- super-repository that links all data releases?
- more collaborations (neutrino and dark matter communities) should have data releases (2 comments)
- feedback loop with theory community on what to include, how useful the release was
- ...

#### Risks/concerns:

- It is not obvious that the efforts--return ratio is favorable to have (construct and maintain) a public archive site of CEvNS data.
- the obvious "danger" is that the data are used incorrectly (curated data release might not provide access to the fully detailed treatment of systematics, but event level data cannot be interpreted correctly without help of original data collector)
- I don't like to work with third party data due to the risk of misunderstandings
- the danger of being "scooped" on searches with one's own data, prevent especially for thesis

• ...