



Center For
Neutrino Physics

PATRICK HUBER

MAY 11, 2022



Annual Report FY21: CNP in numbers

- 16 faculty
- 10 postdocs & research scientists
- 26 graduate students
- 8 awarded PhDs
- 111 publications
- 15 submitted proposals and
3 new awards
- NSF REU successful 3rd year
- \$5.16 million in grants

Bid to Host Neutrino 2026 at Virginia Tech



Co-chairs

Patrick Huber (VT)

Jon Link (VT)

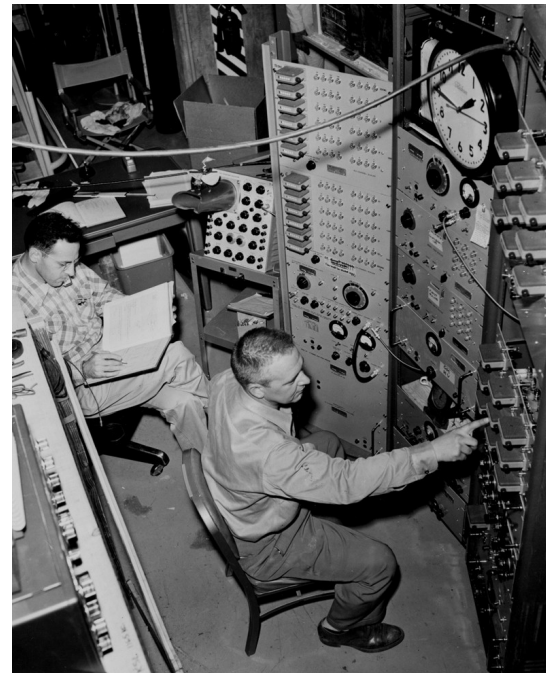
Kate Scholberg (Duke)

Final presentation to the International Neutrino Committee May 11,
result will be announced by the end of Neutrino 2022.

We decided to go for a large local organizing committee extending to close-by
universities and institutions.

2026 marks the 70th anniversary of the discovery of the neutrino at the
P reactor at Savannah River and we will organize a satellite meeting at the
site prior to the conference.

Stay tuned!



Program for today

- Keynote by Elisa Resconi (TUM)
- Wide range of physics topics
- We can not be late for lunch since Preston's buffet closes at 1:30pm
- Poster session will feature hors d'oeuvre and an open bar till 7pm

08:45	Welcome - Patrick Huber (VT)
09:00	Keynote: High energy neutrinos (virtual) - Elisa Resconi (TUM)
10:00	Dark matter cosmic rays - Varun Mathur (VT)
10:20	Impact of late time neutrino emission on the Diffuse Supernov...
10:40	Recent results from CUORE
11:05	Break
11:30	Spekkens' Toy Model and Galois Field Quantum Mechanics ov...
11:55	Study of neutron rates in MiniCHANDLER experiment
12:20	Studies of J/Psi Production Mechanisms Near Threshold an...
12:40	Lunch at Preston's
13:35	Neutrinos, Metaneutrinos and Quantum Gravity
14:00	Progress towards obtaining multidimensionnal maps of the n...
14:25	Investigating the Earth's Core with Neutrinos
14:50	Indermediate Distance Core-Collapse Supernova Neutrinos
15:10	Break
15:35	The DarkSide of the Universe - R Bruce Vogelaar (Virginia Tech)
16:00	Timelike Compton Scattering off of the Proton at Jefferson Lab
16:20	MOLLER Experiment at Jefferson Lab (virtual)
16:45	Poster preview talks
17:00	Posters & refreshments