

## Patrick Huber

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### Professional Preparation

- Technical University Munich, theoretical particle physics, Dr. rer. nat. (PhD), 2003
- Technical University Munich, general physics, Diplom, 2000
- Technical University Munich, astroparticle physics, postdoctoral fellow, 2003-2004
- University of Wisconsin, phenomenology, research associate, 2004-2007
- CERN, theory fellow, high energy theory, 2007-2008

### Professional Appointments

- Fermilab, distinguished scholar, 2016 - present
- Virginia Tech, professor, 2015 - present
- Virginia Tech, department chair, 2015 - 2016
- Virginia Tech, associate professor, 2012 - 2015
- Virginia Tech, assistant professor, 2008 - 2012

### Awards

- 2016 Breakthrough Prize for Fundamental Physics
- 2010 Early Career Research Award of the US Department of Energy Office of High Energy Physics
- 2003 Otto-Hahn-Medal of the Max-Planck-Gesellschaft

### Publications

More than 90 published papers with over 8,000 citations and a Hirsch or h-index of 40

1. Hints for leptonic CP violation or New Physics?, D. V. Forero and P. Huber, Phys. Rev. Lett. **117**, 031801 (2016). D. V. Forero and P. Huber,
2. Antineutrino monitoring for the Iranian heavy water reactor, E. Christensen, P. Jaffke, P. Huber and Thomas Shea, Phys. Rev. Lett. **113**, 042503 (2014).
3. Light sterile neutrinos: a white paper, eds. P. Huber and J. M. Link, arXiv:1204.5379.
4. On the determination of reactor antineutrino spectra from nuclear reactors, P. Huber, Phys. Rev. C **84** 024617 (2011).
5. First Hint for CP violation in neutrino oscillations from upcoming superbeam and reactor experiments, P. Huber, M. Lindner, T. Schwetz and W. Winter, JHEP **11** 044 (2009).

6. New features in the simulation of neutrino oscillation experiments with GLOBES 3.0, P. Huber, J. Kopp, M. Lindner, M. Rolinec and W. Winter, *Comput. Phys. Commun.* **177**, 432 (2007).
7. Resolving parameter degeneracies in long-baseline experiments by atmospheric neutrino data, P. Huber, M. Maltoni and T. Schwetz, *Phys. Rev.* **D 71**, 053006 (2005).
8. Prospects of accelerator and reactor neutrino oscillation experiments for the coming ten years. P. Huber, M. Lindner, M. Rolinec, T. Schwetz and W. Winter, *Phys. Rev.* **D 70**, 073014, 2004.
9. Reactor Neutrino Experiments Compared to Superbeams, P. Huber, M. Lindner, T. Schwetz and W. Winter, *Nucl. Phys.* **B 665**, 487 (2003).
10. Superbeams versus neutrino factories, P. Huber, M. Lindner and W. Winter, *Nucl. Phys.* **B 645**, 3 (2002).

### **Synergistic Activities**

- Refereeing for Physical Review C, Physical Review D, Physical Review Letters, Physics Letters B, Nuclear Physics B, Journal of Cosmology and Astroparticle Physics, Journal of High Energy Physics, Computer Physics Communications, Modern Physics C, Nature Physics
- Development of the General Long Baseline Experiment Simulator (GLOBES) software
- SNOWMASS convener for neutrino oscillations
- Co-coordinator CERN neutrino theory platform
- Member of the Daya Bay collaboration

### **Advisory Committees**

Fermilab long-baseline neutrino committee (FNAL)