

## **Barbara Szczerbinska**

Texas A&M University-Corpus Christi  
Science & Engineering, Physical & Environmental Sciences  
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Barbara.Szczerbinska@tamucc.edu

### **Education**

PhD, University of South Carolina, 2006.

MS, University of Wroclaw, 1998.

### **Professional Employment**

Professor, Texas A&M University - Corpus Christi. (August 2016 - Present).  
Faculty - teaching, research, service

Associate Professor, Dakota State University. (August 2012 - July 2016).  
Faculty - teaching, research, service

Assistant Professor, Dakota State University. (August 2006 - July 2012).  
Faculty - teaching, service, research

### **TEACHING**

#### **Teaching Experience**

PHYS 2426, UNIVERSITY PHYSICS II

### **SCHOLARLY AND CREATIVE ACTIVITIES**

#### **Publications**

##### **Refereed**

##### **Conference Proceedings**

Szczerbinska, B. (2016). In B. Szczerbinska, R. Allahverdi, K. Babu, B. Balantekin, B. Dutta, T. Kumar, J. Kumar, F. Quiroz, L. Strigari, R. Surman (Ed.), *Workshop on Dark Matter, Neutrino Physics and Astrophysics – CETUP\* 2015* (vol. 1743). AIP Conference Proceedings.

Szczerbinska, B. (2015). In B. Szczerbinska at al. (Ed.), *Workshop on Neutrino Interactions, Systematic Uncertainties and Near Detector Physics – CETUP\* 2014* (vol. 1680). AIP Conference Proceedings.

Szczerbinska, B. (2014). In B. Szczerbinska at al. (Ed.), *Workshop on Dark Matter, Neutrino Physics and Astrophysics – CETUP\* 2013* (vol. 1604). AIP Conference Proceedings.

Szczerbinska, B. (2013). In B. Szczerbinska, K. Babu, B. Balantekin, B. Dutta, R. Mohapatra (Ed.), *Workshop on Dark Matter, Unification and Neutrino Physics – CETUP\* 2012* (vol. 1534). AIP Conference Proceedings.

## Non-Refereed

### Conference Proceedings

Szczerbinska, B. (2011). *Potassium Geo-neutrinos and Their Detection*. South Dakota Academy of Science Proceedings.

Szczerbinska, B. (2009). *Coherent Pion Production in the Neutrino-Nucleus Scattering in Few-GeV Region*. arXiv:0901.2366

Szczerbinska, B. (2009). *Dynamical Model of Coherent Electroweak Pion Production Reactions on Nuclei* (vol. 1189). AIP Conf. Proc.

Szczerbinska, B. (2006). *Dynamical model of electroweak pion production in the resonance region* (vol. 159). Nucl. Phys. B, Proc. Suppl.

### Manuscripts

Szczerbinska, B. (2010). *Center for Ultra-Low Background Experiments at DUSEL*. Acta Phys. Polon. B.

Szczerbinska, B. (2010). *CUBED: South Dakota 2010 Research Center for DUSEL Experiments* (vol. 834). Nuclear Physics A.

Szczerbinska, B. (2010). *Dynamical Model of Coherent Pion Production in Neutrino-Nucleus Scattering* (vol. 81). Phys. Rev. C.

Szczerbinska, B. (2010). *Long Baseline Neutrino Experiment*. Acta Phys. Polon. B.

Szczerbinska, B. (2007). *Neutrino-nucleus reaction in delta resonance region* (vol. 649). Physics Letters B.

### Research Reports

Szczerbinska, B. (2016). *Long-Baseline Neutrino Facility (LBNF) and Deep Underground Neutrino Experiment (DUNE) Conceptual Design Report Volume 1: The LBNF and DUNE Projects*. arXiv:1601.05471

Szczerbinska, B. (2016). *Long-Baseline Neutrino Facility (LBNF) and Deep Underground Neutrino Experiment (DUNE) Conceptual Design Report, Volume 4 The DUNE Detectors at LBNF*. arXiv:1601.02984

Szczerbinska, B. (2015). *Long-Baseline Neutrino Facility (LBNF) and Deep Underground Neutrino Experiment (DUNE) Conceptual Design Report, Volume 2: The Physics Program for DUNE at LBNF*. arXiv:1512.06148

Szczerbinska, B. (2013). *The Long-Baseline Neutrino Experiment: Exploring Fundamental Symmetries of the Universe*, LBNE Collaboration. arXiv:1307.7335

Szczerbinska, B. (2012). *Fundamental Physics at the Intensity Frontier*. arXiv:1205.2671v1

Akiri, T. (2011). *The 2010 Interim Report of the Long-Baseline Neutrino Experiment Collaboration Physics Working Groups*. arXiv:1110.6249v1

## **Contracts, Grants and Sponsored Research**

### **Grant**

Szczerbinska, Barbara (Principal), "2016 Summer Program at Center for Theoretical Underground Physics and Related Areas (CETUP\*)," Sponsored by NSF, Federal, \$12,110.00. (July 15, 2016 - June 30, 2017).

## **SERVICE**

### **Department**

Committee Member, Promotion and Tenure Committee. (September 2016 - Present).

### **College**

Committee Member, Center for Faculty Excellence. (January 2017 - December 2018).  
Committee Member, Faculty Development Leave (CFE subcommittee). (January 2017 - December 2018).