

Curriculum Vitae

Name & Title: C.-P. Yuan, Professor of Physics

Address: Department of Physics and Astronomy
3213 Biomedical & Physical Sciences Bldg.
Michigan State University
East Lansing, MI 48824-1116
U.S.A.

Phone: (517) 884-5559 (office)
(517) 355-6661 (fax)

E-mail: yuan@pa.msu.edu

Education:

1980 B. S. National Taiwan Normal University, Taipei, Taiwan, R.O.C.
1988 Ph. D. University of Michigan, Ann Arbor, Michigan, U.S.A.

Professional Experience:

Research Associate	Argonne National Laboratory	1988 - 1990
Research Associate	The Johns Hopkins University	1990 - 1992
Research Associate	University of California at Santa Cruz	Mar - Aug 1991
Assistant Professor	Michigan State University	1992 - 1998
CTEQ [†] member	CTEQ Collaboration	1992 - present
Associate Professor	Michigan State University	1998 - 2004
Full Professor	Michigan State University	2004 - present
Secretary	Overseas Chinese Physics Association (OCPA*)	2005 - 2006
Vice-President	Overseas Chinese Physics Association (OCPA)	2007 - 2008
President	Overseas Chinese Physics Association (OCPA)	2009 - 2010
Visiting Professor	Natioanl Tsing Hua University, Taiwan	2010
Visiting Professor	Peking University, Beijing, China	2011

Fellowships and Awards:

1990 and 1991 Superconducting Super Collider
Postdoctoral Fellowship Award,
Texas National Research Laboratory Commission, U.S.A.

Ph.D. students

Doug Carlson, August 1995. (Researcher, Harris Corporation)

Ehab Malkawi, August 1996. (Associate Professor, United Arab Emirates University, United Arab Emirates)

Tim Tait, August 1999. (Associate Professor, University of California, Irvine)

Csaba Balazs, August 1999. (tenure-track Assistant Professor, Monash University at Melbourne, Australia)

Pavel Nadolsky, August 2001. (tenure-track Assistant Professor, Southern Methodist University, Dallas, Texas)

Qing-Hong Cao, August 2005. (Associate Professor, Peking University, Beijing, China)

Chuan-Ren Chen, March 2008. (Postdoc, Argonne National Laboratory, Chicago)

Jiang-Hao Yu, since fall 2008, expected to graduate in summer 2012. (to be a postdoc at University of Texas, Austin)

M.S. students

Kai Schmitz, August 2009. (Postdoc, Institute for the Physics and Mathematics of the Universe (IPMU) at the University of Tokyo, Japan)

† The CTEQ (Coordinated Theoretical-Experimental Project of QCD) collaboration website is

<http://www.phys.psu.edu/cteq/>

* The OCPA website is

<http://www.ocpaweb.org/new/>

List of Principle Publications

1. *Modification of the equivalence theorem due to loop corrections*, Phys. Rev. **D38** (1988) 2237, (with Y.-P. Yao).
2. *A New Method to Detect a Heavy Top Quark at the Fermilab Tevatron*, Phys. Rev. **D41** (1990) 42.
3. *Using the Top Quark for Testing Standard Model Polarization and CP Predictions*, Phys. Rev. **D45** (1992) 124, (with G. L. Kane and G. A. Ladinsky).
4. *LHC Analysis of the Strongly Interacting WW System: Gold-Plated Modes*, hep-ph/9504426, Phys. Rev. **D52** (1995) 3878, (with J. Bagger, V. Barger, K. Cheung, J. Gunion, T. Han, G.A. Ladinsky, and R. Rosenfeld).
5. *Soft Gluon Effects on Lepton Pairs at Hadron Colliders*, hep-ph/9704258, Phys. Rev. **D56** (1997) 5558, (with C. Balazs).
6. *Single Top Production as a Window to Physics Beyond the Standard Model*, hep-ph/0007298, Phys. Rev. **D63** (2000) 014018, (with T. Tait).
7. *Associated Production of CP Odd and Charged Higgs Bosons at Hadron Colliders*, e-Print Archive: hep-ph/0311083, Phys. Rev. **D69** (2004) 075008, (with Qing-Hong Cao and Shinya Kanemura).
8. *Combined Effect of QCD Resummation and QED Radiative Correction to W Boson Observables at the Tevatron*, e-Print Archive: hep-ph/0401026, Phys. Rev. Lett. **93** (2004) 042001, (with Qing-Hong Cao).
9. *Next-To-Leading Order Corrections to Single Top Quark Production and Decay at Tevatron. 2. t-Channel Process*, e-Print Archive: hep-ph/0504230, Phys. Rev. **D72** (2005) 094027, (with Qing-Hong Cao, Reinhard Schwienhorst, Raymond Brock and Jorge Benitez).
10. *Light MSSM Higgs Boson Scenario and its Test at Hadron Colliders*, e-Print Archive: hep-ph/0609079, Phys. Rev. Lett. **100** (2008) 061801, (with Alexander Belyaev, Qing-Hong Cao, Daisuke Nomura, and Kazuhiro Tobe).
(It was also reported at *Science Magazine* website
<http://sciencenow.sciencemag.org/cgi/content/full/2008/123/3>)
11. *Implications of CTEQ Global Analysis for Collider Observables*, e-Print: arXiv:0802.0007 [hep-ph], Phys. Rev. **D78** (2008) 013004, (with Pavel M. Nadolsky, Hung-Liang Lai, Qing-Hong Cao, Joey Huston, Jon Pumplin, Daniel Stump, and Wu-Ki Tung).

12. *New parton distributions for collider physics*,
e-Print: arXiv:1007.2241 [hep-ph], Phys. Rev. **D 82** (2010) 074024, (with Hung-Liang Lai, Marco Guzzi, Joey Huston, Zhao Li, Pavel M. Nadolsky, and Jon Pumplin).
13. *Next-to-leading QCD effect to the quark compositeness search at the LHC*, e-Print: arXiv:1101.4611 [hep-ph], Phys. Rev. Lett. **106** (2011) 142001, (with Jun Gao, Chong Sheng Li, Jian Wang, and Hua Xing Zhu).
14. *QCD resummation for jet substructures*,
e-Print: arXiv:1107.4535 [hep-ph], Phys. Rev. Lett. **107** (2011) 152001, (with Hsiang-nan Li and Zhao Li).