Curriculum Vitæ

Siniša Veseli

Computing Division, D0 Department, MS114
Fermi National Accelerator Laboratory
P.O. Box 500
Batavia, IL 60510

Phone: (630) 840-6456
Fax: (630) 840-2783
E-mail: veseli@fnal.gov
http://home.fnal.gov/~veseli

Personal Information

Citizenship: Croatian

Visa status: U.S.A. Permanent Resident

Education

Ph.D. in Physics, UW-Madison, August 1996
Thesis Advisor: Professor Martin G. Olsson
Thesis Title: *Heavy Quark Symmetry and Hadronic Models*
GPA: 4.00/4.00

M.S. in Physics, UW-Madison, May 1994

B.S. in Physics, University of Zagreb, Croatia, July 1992
Thesis Advisor: Professor Ivica Picek
Thesis Title: *Topology and the Sphaleron Solution of the Electroweak Theory*
GPA: 3.96/4.00

Honors

University of Zagreb Scholarship (1989-1991)

University of Zagreb *Best Student Award* (1990)

Work History

Computer Professional, Fermilab, September 1999 – Present

Research Associate, Fermilab, September 1996 – August 1999

Research Assistant, UW-Madison, January 1994 – August 1996

Teaching Assistant, UW-Madison, September 1992 – December 1994

Technical Skills

Programming languages: C++, C, Python, Fortran 90

Symbolic languages: Mathematica, Form

Scripting/GUIs: Tcl/Tk, shell scripting

Distributed computing: CORBA, PVM

Scientific computing: data analysis, mathematical modeling, Monte Carlo and other numerical methods

Operating systems: UNIX, Windows, NEXTSTEP

System administration: Linux

Other: various UNIX tools, HTML, LaTeX

Teaching Experience

Teaching Assistant, General Physics-Mechanics, UW-Madison
Fall 1992

Teaching Assistant, General Physics-Electricity and Magnetism, UW-Madison
Spring 1993, Fall 1993

Project Assistant, Modern Physics, UW-Madison
Spring 1996

Project Assistant, Mechanics, UW-Madison
Fall 1994, Fall 1995

Project Assistant, Electromagnetic Fields, UW-Madison
Spring 1994, Fall 1994, Fall 1995

Project Assistant, Thermal Physics, UW-Madison
Fall 1994, Spring 1995

Project Assistant, Atomic and Quantum Physics, UW-Madison
Spring 1995

Project Assistant, Theoretical Physics-Dynamics, UW-Madison
Fall 1995

Project Assistant, Theoretical Physics-Electrodynamics, UW-Madison
Spring 1994

Publications in Refereed Journals

1. T.J. Allen, C. Goebel, M.G. Olsson and S. Veseli, *Analytic quantization of the QCD string*, Physical Review **D64**, 94011 (2001).
2. T. Coleman, M.G. Olsson and S. Veseli, *Semileptonic form factors - a model-independent approach*, Physical Review **D63**, 32006 (2001).
3. T.J. Allen, M.G. Olsson and S. Veseli, *From scalar to string confinement*, Physical Review **D62**, 94021 (2000).
4. S. Parke and S. Veseli, *Distinguishing WH and $Wb\bar{b}$ production at the Fermilab Tevatron*, Physical Review **D60**, 93003 (1999).
5. T.J. Allen, M.G. Olsson and S. Veseli, *Curved QCD string dynamics*, Physical Review **D60**, 74026 (1999).
6. R.K. Ellis and S. Veseli, *Strong radiative corrections to $Wb\bar{b}$ production in $p\bar{p}$ collisions*, Physical Review **D60**, 11501 (1999).
7. T.J. Allen, M.G. Olsson and S. Veseli, *Adiabatic string shape for non-uniform rotation*, Physical Review **D59**, 94011 (1999).
8. T.J. Allen, M.G. Olsson and S. Veseli, *Excited glue and the vibrating flux tube*, Physics Letters **B434**, 110 (1998).
9. S. Veseli, *Multidimensional integration in a heterogeneous network environment*, Computer Physics Communications **108**, 9 (1998).
10. F.E. Close, I. Dunietz, P.R. Page, S. Veseli and H. Yamamoto, *Gluonic hadrons and charmless B decays*, Physical Review **D57**, 5653 (1998).
11. R.K. Ellis and S. Veseli, *W and Z transverse momentum distributions: resummation in q_T-space*, Nuclear Physics **B511**, 649 (1998).
12. R.K. Ellis, D.A. Ross and S. Veseli, *Vector boson production in hadronic collisions*, Nuclear Physics **B503**, 309 (1997).
13. M.G. Olsson and S. Veseli, *On the bounds for the curvature and higher derivatives of the Isgur-Wise function*, Physics Letters **B397**, 263 (1997).
14. T.J. Allen, M.G. Olsson, S. Veseli and K. Williams, *On quark confinement dynamics*, Physical Review **D55**, 5408 (1997).
15. S. Veseli and I. Dunietz, *Decay constants of P and D wave heavy-light mesons*, Physical Review **D54**, 6803 (1996).
16. S. Veseli and M.G. Olsson, *Sum rules, Regge trajectories and relativistic quark models*, Physics Letters **B383**, 109 (1996).
17. S. Veseli and M.G. Olsson, *Semileptonic B decays into higher charmed resonances*, Physical Review **D54**, 886 (1996).

18. S. Veseli and M.G. Olsson, *S to P wave form factors in semileptonic B decays*, Zeitschrift für Physik **C71**, 287 (1996).

19. S. Veseli and M.G. Olsson, *Radiative rare B decays revisited*, Physics Letters **B367**, 309 (1996).

20. S. Veseli and M.G. Olsson, *Modelling form factors in HQET*, Physics Letters **B367**, 302 (1996).

21. M.G. Olsson, S. Veseli and K. Williams, *Flux tubes in effective field theory*, Journal of Physics **G24**, 545 (1998).

22. M.G. Olsson, S. Veseli and K. Williams, *On the validity of the reduced Salpeter equation*, Physical Review **D53**, 504 (1996).

23. M.G. Olsson, S. Veseli and K. Williams, *On the instantaneous Bethe-Salpeter equation*, Physical Review **D52**, 5141 (1995).

24. M.G. Olsson and S. Veseli, *A one parameter representation for the Isgur-Wise function*, Physics Letters **B353**, 96 (1995).

25. M.G. Olsson, S. Veseli and K. Williams, *Fermion confinement by a relativistic flux tube*, Physical Review **D53**, 4006 (1996).

26. M.G. Olsson, S. Veseli and K. Williams, *Observations on the potential confinement of a light fermion*, Physical Review **D51**, 5079 (1995).

27. M.G. Olsson and S. Veseli, *Relativistic flux tube calculation of the Isgur-Wise function*, Physical Review **D51**, 2224 (1995).

28. M.G. Olsson and S. Veseli, *The asymmetric flux tube*, Physical Review **D51**, 3578 (1995).

Conference Proceedings

1. I. Terekhov et al., *Distributed data access and resource management in the D0 SAM system*, Proceedings of the 10th IEEE International Symposium on High Performance Distributed Computing, 7-10 Aug 2001, San Francisco, California, USA.

2. T.J. Allen, M.G. Olsson and S. Veseli, *Scalar and QCD string confinement*, Proceedings of the 7th Conference on Intersections between Particle and Nuclear Physics (CIPANP 2000), 22-28 May 2000, Quebec City, Quebec, Canada.

3. L. Lueking et al., *The data access layer for D0 Run II: design and features of SAM*, Proceedings of the International Conference on Computing in High Energy Physics and Nuclear Physics (CHEP 2000), 7-11 February 2000, Padua, Italy.

4. T.J. Allen, M.G. Olsson and S. Veseli, *Hybrid mesons and relativistic strings*, Proceedings of the 3rd International Conference on Quark Confinement and Hadron Spectrum (Confinement III), 7-12 June 1998, Newport News, Virginia, USA.
5. T.J. Allen, M.G. Olsson and S. Veseli, *Flux tube vibrations and the excited glue spectroscopy*, Proceedings of the 3rd International Conference on Hyperons, Charm and Beauty Hadrons, 30 June - 3 July 1998, Genoa, Italy.