

VITA

JUNKO SHIGEMITSU

EDUCATION

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|-------------------------------------|-----------------|-----------|
| Sophia University (Tokyo, Japan) | B.S. (Physics) | 1969–1973 |
| Cornell University | Ph.D. (Physics) | 1973–1978 |

POSITIONS

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|---|------------------------------|--------------|
| Institute for Advanced Study (Princeton) | Research Associate | 1978–1980 |
| Brown University | Research Assistant Professor | 1980–1982 |
| The Ohio State University | Assistant Professor | 1982–1987 |
| The Ohio State University | Associate Professor | 1987–1992 |
| The Ohio State University | Professor | 1992–Present |

HONORS

Fellow of the American Physical Society

SELECTED RECENT PUBLICATIONS

1. “Accurate Determination of α_s from Realistic Lattice QCD”,
Q.Mason, H.Trottier, C.Davies, K.Foley, A. Gray, P.Lepage, M.Nobes, J. Shigemitsu;
Phys. Rev. Lett. 95:052002 (2005).
2. “The Υ Spectrum and m_b from Full Lattice QCD”,
A.Gray, I.Allison, C.Davies, E.Gulez, P.Lepage, J.Shigemitsu, M.Wingate;
Phys. Rev. D72:094507 (2005).
3. “The B Meson Decay Constant from Unquenched Lattice QCD”,
A.Gray, M.Wingate, C.Davies, E.Gulez, P.Lepage, Q.Mason, M.Nobes, J.Shigemitsu;
Phys. Rev. Lett. 95:212001 (2005).
4. “ B Meson Semileptonic Form Factors from Unquenched Lattice QCD”,
E.Gulez, A.Gray, M.Wingate, C.Davies, P.Lepage, J.Shigemitsu;
Phys. Rev. D73:074502 (2006).
5. “Unquenched Determination of the Kaon Parameter B_K from
Improved Staggered Fermions”,
E.Gamiz, S.Collins, C.Davies, P.Lepage, J.Shigemitsu, M.Wingate;
Phys. Rev. D73:114502 (2006).

6. “Highly-Improved Staggered Quarks on the Lattice with Applications to Charm Physics”,
E.Follana, Q.Mason, C.Davies, K.Hornbostel, P.Lepage, J.Shigemitsu,
H.Trottier and K.Wong;
Phys. Rev. D75:054502 (2007).
7. “ $B_s^0 - \overline{B}_s^0$ Mixing Parameters from Unquenched Lattice QCD”,
E.Dalgic, A.Gray, E.Gamiz, C.Davies, P.Lepage, J.Shigemitsu,
H.Trottier and M.Wingate,
Phys. Rev. D76:011501(R) (2007).
8. “High Precision Determination of the π , K, D and D(s) Decay Constants from Lattice QCD”;
E.Follana, C.Davies, P.Lepage, J.Shigemitsu,
Phys. Rev. Lett. 100:062002 (2008).
9. “Four Fermion Operator Matching with Nonrelativistic QCD Heavy and AsqTad Light Quarks”;
E.Gamiz, J.Shigemitsu and H.Trottier;
Phys. Rev. D77:114505 (2008).
10. “High-Precision Charm-Quark Mass and QCD Coupling from Current-Current Correlators in Lattice and Continuum QCD”;
I.Allison, E.Dalgic, C.Davies, E.Follana, R.Horgan, K.Hornbostel, P.Lepage,
C.McNeile, J.Shigemitsu, H.Trottier, R.Woloshyn, K.Chetyrkin, J.Kuehn,
M.Steinhauser and C.Sturm;
Phys. Rev. D78:054513 (2008).
11. “Update: Accurate Determinations of α_s from Realistic Lattice QCD”;
C.Davies, I.Kendall, P.Lepage, C.McNeile, J.Shigemitsu and H.Trottier;
Phys. Rev. D78:114507 (2008).
12. “Neutral B Meson Mixing in Unquenched Lattice QCD”;
E.Gamiz, C.Davies, P.Lepage, J.Shigemitsu and M.Wingate;
Phys. Rev. D80:014503 (2009).

SELECTED RECENT INVITED TALKS

- 1 “ B and D Leptonic Decays”, invited talk at the “Lattice QCD Meets Experiment Workshop 2007”, December 2007, Fermilab.
2. “Recent Lattice Results on $B \rightarrow \pi, l\nu$ and the Determination of $|V_{ub}|$ ”; Invited Talk to Working Group 2 at CKM2008, Rome, September 2008.
3. “Exascale Computing in the Heavy Quark Sector”; Invited Talk at the workshop “Scientific Challenges for Understanding the Quantum Universe and the Role of Computing at Extreme Scale”, Stanford, 9-11 December, 2008.