Curriculum Vitae

So Chigusa

January 2, 2020

Personal Data

First Name:	So
Last Name:	Chigusa
Date of Birth:	May 22, 1992
Place of Birth:	Kobe, Japan
Nationality:	Japanese
Age:	27
Sex:	Male

Affiliation:	University of Tokyo
Postcode:	113-8654
Address:	7-3-1, Hongo, Bunkyo, Tokyo
Phone:	+81-3-5841-4138
E-mail:	chigusa@hep-th.phys.s.u-tokyo.ac.jp
Homepage:	`https://sochigusa.bitbucket.io`

Education

Date	Degree	University
Mar. 24, 2017	Master of Science (Physics)	University of Tokyo
Mar. 2015	Bachelor of Science (Physics)	University of Tokyo

Professional experience

Apr. 2015 - Mar. 2020:	Ph.D. Student, Department of Physics, University of Tokyo (Dr. Takeo Moroi)

Teaching experience

Apr. 2015 - Sep. 2015:	Teaching Assistant for Undergraduate Class "Quantum Mechanics II" at Department of Physics, University of Tokyo

Grants

Apr. 2017 - Mar. 2020:	JSPS, Research Fellowships for Young Scientists (DC1) Amount: 2800000 JPY
Oct. 2015 - Mar. 2020:	MEXT, Program for Leading Graduate Schools

Honors and Awards

1. Best Poster Award @ HPNP 2019

Publications

[1] S. Chigusa, Y. Hosomi, T. Moroi and M. Saito, *Determining Wino Lifetime in Supersymmetric Model at Future 100 TeV pp Colliders*, 1912.00592.

[2] S. Chigusa, T. Moroi and K. Nakayama, *Signals of Axion Like Dark Matter in Time Dependent Polarization of Light*, 1911.09850.

[3] S. Chigusa, T. Moroi and Y. Shoji, *Bounce Configuration from Gradient Flow*, 1906.10829.

[4] S. Chigusa, S. Kasuya and K. Nakayama, *Novel Flavon Stabilization with Trimaximal Neutrino Mixing*, *Phys. Rev.* **D100** (2019) 015030, [1905.11517].

[5] T. Abe, S. Chigusa, Y. Ema and T. Moroi, *Indirect studies of electroweakly interacting particles at 100ÂăTeV hadron colliders*, *Phys. Rev.* **D100** (2019) 055018, [1904.11162].

[6] S. Asai, S. Chigusa, T. Kaji, T. Moroi, M. Saito, R. Sawada et al., *Studying gaugino masses in supersymmetric model at future 100 TeV pp collider*, *JHEP* **05** (2019) 179, [1901.10389].

[7] S. Chigusa, Y. Ema and T. Moroi, *Probing electroweakly interacting massive particles with DrellâĂŞYan process at 100 TeV hadron colliders*, *Phys. Lett.* **B789** (2019) 106–113, [1810.07349].

[8] S. Chigusa, S. Kasuya and K. Nakayama, *Flavon Stabilization in Models with Discrete Flavor Symmetry*, *Phys. Lett.* **B788** (2019) 494–499, [1810.05791].

[9] S. Chigusa and K. Nakayama, *Anomalous Discrete Flavor Symmetry and Domain Wall Problem*, *Phys. Lett.* **B788** (2019) 249–255, [1808.09601].

[10] S. Chigusa, T. Moroi and Y. Shoji, *Decay Rate of Electroweak Vacuum in the Standard Model and Beyond*, *Phys. Rev.* **D97** (2018) 116012, [1803.03902].

[11] S. Chigusa, T. Moroi and Y. Shoji, *State-of-the-Art Calculation of the Decay Rate of Electroweak Vacuum in the Standard Model*, *Phys. Rev. Lett.* **119** (2017) 211801, [1707.09301].

[12] S. Chigusa and T. Moroi, *Bottom-Tau Unification in Supersymmetric SU(5) Models with Extra Matters*, *PTEP* **2017** (2017) 063B05, [1702.00790].

[13] S. Chigusa and T. Moroi, *Bottom-tau unification in a supersymmetric model with anomaly-mediation*, *Phys. Rev.* **D94** (2016) 035016, [1604.02156].

Invited Seminar Presentations

1. "Flowing to the Bounce", 2019/10/24, Seminar, Tohoku University

2. “Indirect Studies of Electroweakly Interacting Particles at 100 TeV Hadron Colliders”, 2019/7/23, Seminar, Osaka University
3. “Indirect Studies of Electroweakly Interacting Particles at 100 TeV Hadron Colliders”, 2019/5/16, Seminar, University of Florida
4. “Indirect Studies of Electroweakly Interacting Particles at 100 TeV Hadron Colliders”, 2019/5/10, Seminar, Florida State University
5. “Indirect Studies of Electroweakly Interacting Particles at 100 TeV Hadron Colliders”, 2019/4/9, Seminar, KEK
6. “Solutions to Domain Wall Problem in Models with Discrete Flavor Symmetry”, 2019/1/11, Seminar, Hokkaido University
7. “Probing Electroweakly Interacting Massive Particles with Drell-Yan Process at 100 TeV Hadron Colliders”, 2018/10/16, Seminar, Nagoya University

Presentations at International Conferences

(Oral)

1. “Indirect Studies of Electroweakly Interacting Particles at 100 TeV Hadron Colliders”, 2019/8/20, SI2019, Gangneung, Korea
2. “Flowing to the Bounce”, 2019/8/9, NHWG26, Osaka
3. “Indirect Studies of Electroweakly Interacting Particles at 100 TeV Hadron Colliders”, 2019/5/22, SUSY 2019, Texas
4. “Indirect Studies of Electroweakly Interacting Particles at 100 TeV Hadron Colliders”, 2019/5/6, Pheno 2019, Pittsburgh
5. “Flavon Stabilization in Models with Discrete Flavor Symmetry”, 2018/12/6, KEK-PH 2018 winter, Tsukuba
6. “Decay Rate of the Electroweak Vacuum in the Standard Model and Beyond”, 2018/5/24, Planck 2018, Bonn

7. “Bottom-Tau Unification in Supersymmetric Models”, 2017/2/6, New Physics Forum, IPMU

8. “Bottom-Tau unification in Supersymmetric Model with Anomaly-Mediation”, 2016/7/05, SUSY 2016, Melbourne

(Poster)

1. “Probing Electroweakly Interacting Massive Particles with Precision Measurements at 100 TeV Hadron Colliders (poster)”, 2019/2/21, HPNP2019, Osaka

Presentations at Domestic Conferences

(Oral)

1. “Flavon Stabilization without Domain Wall Problem in Discrete Flavor Symmetry Models (in Japanese)”, 2019/6/11, Neutrino Oscillation and Flavor Physics, Nagoya

2. “Zero Mode Problem in the Calculation of Decay Rate of the SM Electroweak vacuum”, 2018/9/15, JPS 2018, Shinshu

3. “Bottom-Tau unification in Supersymmetric Model with Anomaly-Mediation”, 2016/9/21, JPS 2016, Miyazaki

(Poster)

1. “Indirect Search of WIMP Dark Matter at Future 100 TeV Collider (Poster)”, 2018/8/9, PPP 2018, Kyoto

2. “Bottom Tau Unification in Supersymmetric Models (Poster)”, 2017/8/3, PPP 2017, Kyoto

Poster Presentations at International Summer Schools

1. "Decay Rate of the Electroweak Vacuum in the Standard Model and Beyond", 2018/7/12, Cargese Summer School 2018
2. "Bottom Tau Unification in Supersymmetric Models (Poster)", 2017/7/4, Les Houches Summer School 2017