

Curriculum Vitae

Kadir Utku CAN

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RIKEN Nishina Center

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Work

2017—present **Post-doc:** *RIKEN*
Nishina Center
Strangeness Nuclear Physics Laboratory

Education

2014–2017 **Ph.D:** *Tokyo Institute of Technology*
Graduate School of Science and Engineering
Physics Department

2013–2014 **Research Student:** *Tokyo Institute of Technology*
Graduate School of Science and Engineering
Physics Department

2012–2013 **Ph.D** (incomplete): *Middle East Technical University*
Graduate School of Natural and Applied Sciences
Physics Department

2010–2012 **M.S:** *Middle East Technical University*
Graduate School of Natural and Applied Sciences
Physics Department
C.GPA: 3.21 / 4.00

2005–2010 **B.S:** *Middle East Technical University*
Arts & Sciences Faculty
Physics Department
C.GPA: 2.72 / 4.00

Languages

- **Turkish:** Native
- **English:** Fluent
- **Japanese:** Intermediate

Computer Skills

Languages:

- FORTRAN 77/95
- C/C++
- L^AT_EX
- CUDA
- Python

Software:

- PYTHIA 6/8
- CERN ROOT
- Mathematica
- CompHEP/CalcHEP
- CHROMA Library
- GNU Octave

Projects

Research Assistant:

- 2011–2013 : Non-perturbative approaches to hadron interactions in Quantum Chromodynamics (TUBITAK¹ Project No: 110T245)

Research Interests

- Lattice QCD
- Hadron Structure
- Heavy Hadrons

Peer-Reviewed Papers

1. H. Bahtiyar, K.U. Can, G. Erkol, M. Oka, T.T. Takahashi, $\Xi_c \gamma \rightarrow \Xi'_c$ transition in lattice QCD, **Phys.Lett. B772 (2017) 121–126**, <https://doi.org/10.1016/j.physletb.2017.06.022>
2. K.U. Can, G. Erkol, M. Oka, T.T. Takahashi, $\Lambda_c \Sigma_c \pi$ coupling and $\Sigma_c \rightarrow \Lambda_c \pi$ decay in lattice QCD, **Phys.Lett. B768 (2017) 309–316**, <https://doi.org/10.1016/j.physletb.2017.03.006>
3. K.U. Can, G. Erkol, M. Oka, T.T. Takahashi, A look inside charmed-strange baryons from lattice QCD, **Phys.Rev. D92 (2015) no.11, 114515**, <https://doi.org/10.1103/PhysRevD.92.114515>
4. H. Bahtiyar, K.U. Can, G. Erkol, M. Oka, $\Omega_c \gamma \rightarrow \Omega_c^*$ transition in lattice QCD, **Phys.Lett. B747 (2015) 281–286**, <https://doi.org/10.1016/j.physletb.2015.06.006>
5. K.U. Can, A. Kusno, E. V. Mastropas and J. M. Zanotti, *Hadron Structure on the Lattice*, **Lect. Notes Phys. 889 (2015) 69–105**, https://doi.org/10.1007/978-3-319-08022-2_3

¹The Scientific and Technological Research Council of Turkey, <http://www.tubitak.gov.tr/en>.

6. K.U. Can, G. Erkol, B. Isildak, M. Oka, T.T. Takahashi, *Electromagnetic structure of charmed baryons in Lattice QCD*, **JHEP05 (2014) 125**, [https://doi.org/10.1007/JHEP05\(2014\)125](https://doi.org/10.1007/JHEP05(2014)125)
7. K.U. Can, G. Erkol, B. Isildak, M. Oka, T.T. Takahashi, *Electromagnetic properties of doubly charmed baryons in Lattice QCD*, **Phys.Lett. B726 (2013) 703–709**, <https://doi.org/10.1016/j.physletb.2013.09.024>
8. K.U. Can, G. Erkol, M. Oka, A. Ozpineci, T.T. Takahashi, *Vector and axial-vector couplings of D and D^* mesons in 2+1 flavor Lattice QCD*, **Phys.Lett. B719 (2013) 103–109**, <https://doi.org/10.1016/j.physletb.2012.12.050>

Scholarships/Awards

Awards:

- 2017 Springer Thesis Award 2017
- 2009–2010 Spring METU High Honor Roll
- 2009–2010 Fall METU Honor Roll
- 2008–2009 Spring METU Honor Roll

Scholarships:

- 2014–2017 Japanese Government (MEXT) Scholarship as a Ph.D Student
- 2013–2014 Japanese Government (MEXT) Scholarship as a Research Student

References

Available upon request

Parts of this thesis have been published in the following articles:

- K.U. Can, G. Erkol, M. Oka, T.T. Takahashi, Look inside charmed-strange baryons from lattice QCD, *Physical Review D* 92, 114515 (2015).
- K.U. Can, G. Erkol, B. Isildak, M. Oka, T.T. Takahashi, Electromagnetic structure of charmed baryons in Lattice QCD, *Journal of High Energy Physics (JHEP)* 05, 125 (2014).
- K.U. Can, G. Erkol, B. Isildak, M. Oka, T.T. Takahashi, Electromagnetic properties of doubly charmed baryons in Lattice QCD, *Physics Letters* B726 (2013) 703–709.