

Mar. 17, 2021

## Akihito Yoneyama (米山 瑛仁)

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### Education

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- Apr. 2020 -  
Doctoral Course  
Institute of Physics, Graduate School of Arts and Sciences, the University of Tokyo  
Supervisor: Prof. Atsuo Kuniba
- Apr. 2018 - Mar. 2020  
Master Course  
Institute of Physics, Graduate School of Arts and Sciences, the University of Tokyo  
Supervisor: Prof. Atsuo Kuniba
- Apr. 2014 - Mar. 2018  
Department of Physics, the University of Tokyo

### Work Experience

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- Oct. 2020 -  
Research Internship (part-time)  
GCI Asset Management Kyoto Lab, Kyoto, Japan
- Aug. 2019 - Sep. 2019  
Research Internship (full-time)  
Preferred Networks, Inc., Tokyo, Japan

### Academic Work Experience

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- Sep. 2020 - Jan. 2021  
Teaching assistant for the course *Electromagnetics B*  
The University of Tokyo, Tokyo, Japan

### Award

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- Mar. 2020  
Encouragement Award, Graduate School of Arts and Sciences, the University of Tokyo

## Paper

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4. A.Yoneyama, “Boundary from bulk integrability in three dimensions: 3D reflection maps from tetrahedron maps”, arXiv:2103.01105
3. A.Yoneyama, “Tetrahedron and 3D reflection equation from PBW bases of the nilpotent subalgebra of quantum superalgebras”, arXiv:2012.13385
2. A.Kuniba, M.Okado and A.Yoneyama, “Reflection  $K$  matrices associated with an Onsager coideal of  $U_p(A_{n-1}^{(1)})$ ,  $U_p(B_n^{(1)})$ ,  $U_p(D_n^{(1)})$  and  $U_p(D_{n+1}^{(2)})$ ”, J. Phys. A: Math. Theor. **52** 375202 27pages (2019), arXiv:1904.05653
1. A.Kuniba, M.Okado and A.Yoneyama, “Matrix product solution to the reflection equation associated with a coideal subalgebra of  $U_q(A_{n-1}^{(1)})$ ”, Lett. Math. Phys. **109** 2049-2067 (2019), arXiv:1812.03767

## Oral Presentation at International Conference

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1. Mar. 5-7, 2019 @ the University of Tokyo (Invited)  
“Matrix product solution to the reflection equation associated with a coideal subalgebra of  $U_q(A_{n-1}^{(1)})$ ”, Infinite Analysis 19 Quantum Symmetries and Integrable Systems

## Invited Seminar

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2. Jan. 14, 2021 @ the University of Tokyo (Online) (Host: Ralph Willox)  
“Tetrahedron and 3D reflection equation from PBW bases of the nilpotent subalgebra of quantum superalgebras”, Discrete Mathematical Modelling Seminar
1. Apr. 10, 2019 @ Rikkyo University (Host: Jimbo Michio)  
“Review about tetrahedron equation and technical details about [KOY18]”

## Oral Presentation at Domestic Conference

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2. Mar. 15-18, 2021 @ Keio University (Online)  
“Tetrahedron and 3D reflection equation from PBW basis of the nilpotent subalgebra of quantum superalgebras”, Mathematical Society of Japan Spring Meeting 2021
1. Feb. 10-14, 2021 @ Online  
“Tetrahedron equation from PBW bases of the nilpotent subalgebra of quantum superalgebras”, Mathsci Freshman Seminar 2021

**Skill**

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Mathematica, Python, C/C++