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ACADEMIC POSITIONS

University of Amsterdam, Amsterdam, Netherlands	2021-present
Onderzoeker (Researcher)	(Contact: Daniel Baumann)

ACADEMIC AND PROFESSIONAL PREPARATION

Yale University, New Haven, CT	2016-2021
Doctor of Philosophy in Physics	(Advisor: David Poland)
Dissertation title: <i>Analytical Studies in the Fermion Conformal Bootstrap</i>	
Master of Philosophy in Physics	
Master of Science in Physics	
California Institute of Technology, Pasadena, CA	2018-2019
Visiting Student Researcher	(Host: David Simmons Duffin)
Simons Bootstrap Collaboration Graduate Student Exchange	
Middle East Technical University, Ankara, Turkey	2008-2016
Master of Science in Physics	(Advisor: İsmail Turan)
Thesis: <i>A Lorentz Violating Theory: Its Nonminimal Extension in the Photon Sector</i>	
Bachelor of Science in Physics	
Bachelor of Science in Electrical & Electronics Engineering	

PUBLICATIONS

S. Albayrak, S. Kharel and D. Meltzer, *On duality of color and kinematics in (A)dS momentum space*, [arXiv:2012.10460 \[hep-th\]](https://arxiv.org/abs/2012.10460) (accepted to JHEP)

S. Albayrak, C. Chowdhury and S. Kharel, *On loop celestial amplitudes for gauge theory and gravity*, [Phys.Rev.D 102 \(2020\)](https://arxiv.org/abs/2008.08112)

S. Albayrak and S. Kharel, *Spinning loop amplitudes in Anti-de Sitter space*, [Phys.Rev.D 103 \(2021\) 2](https://arxiv.org/abs/2008.08112)

S. Albayrak, D. Meltzer and D. Poland, *The Inversion Formula and 6j Symbol for 3d Fermions*, [JHEP 09 \(2020\) 148](https://arxiv.org/abs/2008.08112)

S. Albayrak, C. Chowdhury and S. Kharel, *Study of momentum space scalar amplitudes in AdS spacetime*, [Phys.Rev.D 101 \(2020\) 12](https://arxiv.org/abs/2008.08112)

S. Albayrak and S. Kharel, *Towards the higher point holographic momentum space amplitudes. Part II. Gravitons*, [JHEP 12 \(2019\) 135](https://arxiv.org/abs/2008.08112)

S. Albayrak, C. Chowdhury and S. Kharel, *New relation for Witten diagrams*, [JHEP 10 \(2019\) 274](https://arxiv.org/abs/2008.08112)

S. Albayrak, D. Meltzer and D. Poland, *More Analytic Bootstrap: Nonperturbative Effects and Fermions*, [JHEP 08 \(2019\) 040](https://arxiv.org/abs/2008.08112)

S. Albayrak and S. Kharel, *Towards the higher point holographic momentum space amplitudes*, [JHEP 02 \(2019\) 040](#)

S. Albayrak, *A Lorentz Violating Theory: Its Nonminimal Extension in the Photon Sector* (Master thesis), [arXiv:1602.07676 \[hep-ph\]](#)

S. Albayrak and İ. Turan, *CPT-odd Photon in Vacuum-Orthogonal Model*, [arXiv:1505.07584 \[hep-ph\]](#)

CURRENT RESEARCH INTERESTS

Conformal bootstrap	AdS/CFT
Cosmological bootstrap	Scattering amplitudes

CONFERENCES & PRESENTATIONS

Bootstrap 2021, online conference	Jul 2021
19 th Workshop on Quantization, Dualities and Integrable Systems Talk: <i>Fermions in CFTs: The Analytic Bootstrap Approach</i>	Apr 2021
THK University, online seminar Invited Talk: <i>Simetriler: Niçin evrenimiz böyle?</i>	Mar 2021
Porto University, online seminar Invited Talk: <i>On Witten diagrams in momentum space</i>	Feb 2021
Bootstrap 2020, online conference	Jun 2020
Middle East Technical University, online seminar Invited Talk: <i>Recent Developments in Conformal Bootstrap</i>	Nov 2020
Zoomplitudes 2020, online conference	May 2020
Online seminar series in theoretical physics in Turkey Talk: <i>Recent Developments in Conformal Bootstrap</i>	May 2020
Developments in the Numerical Bootstrap, SCGP-Stony Brook	Nov 2019
Bootstrap 2019, Perimeter Institute	Jul 2019
Bootstrap 2018, California Institute of Technology	Jul 2018
Analytic approaches to the bootstrap, Azores	May 2018
Particle theory group student talk: <i>On Wess-Zumino-Witten model</i> , Yale	Mar 2018
Signals for Nonminimal Lorentz and CPT Violation, IUCSS Poster presentation: <i>CPT-odd Photon in Vacuum-Orthogonal Model</i>	Jun 2015
Ankara High Energy Physics Days, METU Talk: <i>CPT Violating QED and Beyond</i>	Feb 2015
Recent Developments in High Energy Physics, METU	May 2013

AWARDS AND SCHOLARSHIPS

National Graduate Study Scholarship <i>by Scientific and Technological Research Council of Turkey</i>	2014
Graduate Courses Performance Award <i>by Middle East Technical University</i>	2014
Dean's Honor and High Honor Lists	2009-2013
Outstanding Success Scholarship's <i>by METU, by Turkish Educational Foundation, and by Ministry of Youth and Sports</i>	2008

EXPERIENCE

Teaching Assistant, Yale University	2017-2021
PHYS 181: <i>University Physics</i>	Spring 2018, Spring 2020, Spring 2021
PHYS 180: <i>University Physics</i>	Fall 2017, Fall 2019, Fall 2020
PHYS 166L: <i>General Physics Laboratory</i>	Spring 2017
Teaching Assistant, Middle East Technical University	2014-2016
PHYS 502: <i>Analytical Mechanics</i>	Fall 2015, Spring 2016
PHYS 408: <i>Particle Physics II</i>	Spring 2015, Spring 2016
PHYS 407: <i>Particle Physics I</i>	Fall 2014, Fall 2015
PHYS 311: <i>Classical Mechanics</i>	Fall 2014, Spring 2015, Fall 2015, Spring 2016
PHYS 105 - LAB: <i>General Physics I</i>	Fall 2014
Intern, PROMOD R&D Software, Ankara <i>worked for object tracking and camera calibration problems</i>	Jul & Aug 2013
Intern, SÖKTAŞ Textile, Aydın <i>worked in the control department</i>	Aug & Sep 2012

REFERENCES

Available upon request