

Seong-Ho Shinn (신성호)

Curriculum Vitae

RESEARCH INTERESTS

- Ultracold chemical reaction
- Quantum information
- Damping of collective oscillations in Bose-Einstein condensates
- Single and half quantum vortices in spin 1 Bose-Einstein condensates
- Spinor dipolar Bose-Einstein condensates

PERSONAL DETAILS

Birth May 1, 1991
Address 104-904, 66 Nangok-ro, Gwanak-gu, Seoul, Republic of Korea
Phone (+82) 10-5106-2454
Mail sshkevin9105@gmail.com

EDUCATION

PhD. in Physics March 1, 2014 - August 29, 2022
Seoul National University
- Title: Multicomponent and Spinor-Dipolar Bose-Einstein Condensates as Laboratories for Fundamental Physics and Metrology
- Thesis supervisor: Professor Uwe R. Fischer
- Date of completion: August 29, 2022

BSc. in Physics March 1, 2010 - February 26, 2014
Seoul National University
- Date of completion: February 26, 2014

WORK EXPERIENCE

Technical Research Personnel (전문연구요원) March 1, 2017 - March 18, 2020
Military Manpower Administration of Korea
Korean government requires male citizens to perform compulsory military service. Among several options, I chose technical research personnel which started in March 1, 2017 and ended in March 18, 2020.

PUBLICATIONS

1. **Quantum metrology with ultracold chemical reactions**, *Seong-Ho Shinn, Uwe R. Fischer, and Daniel Braun*, arXiv:2208.06380v1 [cond-mat.quant-gas].
2. **Stoner-Wohlfarth switching of the condensate magnetization in a dipolar spinor gas and the metrology of excitation damping**, *Seong-Ho Shinn, Daniel*

Braun, and Uwe R. Fischer, Phys. Rev. A 102, 013315 (2020).

3. **Mesoscopics of half-quantum vortex pair deconfinement in a trapped spin-one condensate**, *Seong-Ho Shinn and Uwe R. Fischer*, Phys. Rev. A 98, 053602 (2018).

CONFERENCES/WORKSHOPS ATTENDED

1. **Quantum Menorca 2019: Dynamics and Interactions in Quantum Gases**, September 4, 2019, *Menorca, Spain*. I presented a poster.
2. **2018 5th SGPF Conference**, November 10, 2018, *Incheon, Korea*. I presented a poster and gave a short talk about my first paper, Phys. Rev. A 98, 053602 (2018).
3. **2016 Korea Global PhD Fellowship Conference**, December 21, 2016, *Sejong, Korea*. I presented a poster.

RESEARCH VISITS

Institut für Theoretische Physik
Eberhard Karls Universität Tübingen
- Host: Professor Daniel Braun

March 1, 2021 - August 30, 2021

Institut für Theoretische Physik
Eberhard Karls Universität Tübingen
- Host: Professor Daniel Braun

June 17, 2019 - September 3, 2019

SKILLS

<i>Languages</i>	Korean (mother tongue) English
<i>Software</i>	L ^A T _E X, MATHEMATICA, C, OPENCL, MPI, GNUPLOT

AWARDS

Global PhD Fellowship
National Research Foundation of Korea

March 1, 2015 - February 29, 2020

2nd Prize (최우수상) in 2017 National Supercomputing Challenge
Korea Institute of Science and Technology Information

July 27 - 28, 2017

National Science & Technology Scholarship
National Research Foundation of Korea

March 1, 2010 - February 28, 2014