

CHOI Ki-Young

Assistant professor
Department of Physics



- **Office** 31301, Science Building 1, Sungkyunkwan University (SKKU) Natural Sciences Campus, 2066 Seobu-ro, Jangan-gu, Suwon, Gyeonggi-do, South Korea
- **Phone** 82-31-290-5907
- **E-mail** kiyoungchoi@skku.edu
- **Website**
- **Social Media**

Key Words Astro-particle physics, Cosmology, Dark matter, Early Universe, inflation

Research Area Theoretical Astro-particle Physics and Cosmology

Education

• 2005	PhD	• Seoul Natl. Univ.
• 2002	MSc	• Seoul Natl. Univ.
• 1997	BSc	• Seoul Natl. Univ.

Experience

• 2017 – present	Sungkyunkwan University, assistant professor
• 2016 – 2017	Chonnam National University, assistant professor
• 2013 – 2016	KASI, senior researcher
• 2011 – 2013	JRG leader, APCTP
• 2009 – 2011	Pusan National University, research professor
• 2007 – 2009	Madrid Autonoma University, Researcher
• 2005 – 2007	University of Sheffield, Research Associate

Position

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Selected Publication

- “New bound on low reheating temperature for dark matter in models with early matter domination” Physical Review D 96 (2017) 041301
- “Constraining dark photon model with dark matter from CMB spectral distortions” Physics Letters B 771 (2017) 162 - 167
- “A facility to Search for Hidden Particles at the CERN SPS: the SHiP physics case” Reports on Progress in Physics 79 (2016) 124201
- “Isocurvature Perturbation of Weakly Interacting Massive Particles and Small Scale Structure”, Physical Review Letters 115 (2015) 211302
- “Dark matter production in the early Universe: beyond the thermal WIMP paradigm”, Physics Reports 555 (2015) 1 - 60
- “X-ray line signal from decaying axino warm dark matter” Physics Letters B 735 (2014) 92 - 94
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Others

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