



KIM Yoonbai

Professor
Department of Physics

- **Office** 31305, Science Building 1, Sungkyunkwan University (SKKU) Natural Sciences Campus, 2066 Seobu-ro, Jangan-gu, Suwon, Gyeonggi-do, Republic of Korea
- **Phone** 82-31-290-7051
- **E-mail** yoonbai@skku.edu
- **Website** http://physics.skku.ac.kr/xe/research1_e
- **Social Media**

Key Words Uncovering the origin and history of the early Universe
Understanding the nature of fundamental forces

Research Area Astroparticle Physics and Cosmology
Quantum Field Theory and String Theory

Education

- 1991 PhD Seoul National University
- 1988 MSc Seoul National University
- 1985 BSc Seoul National University

Experience

- 1991-1992 Postdoctoral Research Associate, Columbia University
- 1992-1993 Postdoctoral Research Associate, Kyung Hee University
- 1993-1995 Postdoctoral Research Associate, Nagoya University
- 1995-1996 Brain Pool Professor, Pusan National University

Position

- 1996~ Professor, Sungkyunkwan University
- 2008~2009 Vice President, Korea University Football Confederation
- 2011~2014 Vice President of Admissions, Sungkyunkwan University

Selected Publication

- Abelian gauge invariance of the WZ-type coupling in ABJM theory, *Physics Letters B*, 748 (2015)
- Two-field inflation with non-minimal coupling, *Classical and Quantum Gravity*, 31(13) (2014)
- BPS vortices, Q-balls, and Q-vortices in $N = 6$ Chern-Simons matter theory, *Journal of High Energy Physics*, 2(58) (2013)
- Partially supersymmetric ABJM theory with flux, *Journal of High Energy Physics*, 11(169) (2012)
- Hyperbolic inflation, *Physical Review D*, 83(6) (2011)
- Angle dependence of the Landau level spectrum in twisted bilayer grapheme, *PHYSICAL REVIEW B*, 84(19) (2011)
- Mass-deformed super Yang-Mills theories from M2-branes with flux, *Journal of High Energy Physics*, 9(77) (2011)
- Interaction between M2-branes and bulk form fields, *Journal of High Energy Physics*, 69(11)(2010)

Others

-