



Phongsaphat Rangdee

Ph.D.

Workplace

School of Science,
University of Phayao, Thailand

Address:

19 Moo 2, Pha-Hol Yothin Road,
Maeka District, Muang Phayao,
Phayao Province, 56000 Thailand

Phone:

+66 (0)54-466666#1708

Email:

phongsaphat.ra@up.ac.th

Languages

Thai
English

Job Position

Lecturer in Physics

Work Experience

- | | |
|----------------|---|
| 2000 – 2001 | Lecturer at Department of Physics,
Faculty of Science, Naresuan University |
| 2005 – 2009 | Lecturer at Department of Physics,
School of Science, University of Phayao |
| 2015 – Present | Lecturer at Department of Physics,
School of Science, University of Phayao |

Educations

- | | |
|-------------|--|
| 1996 – 2000 | Bachelor of Science in Physics;
B.S.(Physics), Faculty of Science,
Naresuan University, Thailand |
| 2001 – 2005 | Master of Science in Physics;
M.Sc.(Physics), Faculty of Science,
Chulalongkorn University, Thailand |
| 2009 – 2012 | Ph.D. Training in Applied Physics (Before
changing to Ph.D. in Theoretical
Physics Program due to the supervisor's
relocation to IF); Ph.D. (Applied Physics)
Faculty of Science, Naresuan University,
Thailand |
| 2012 – 2015 | Doctor of Philosophy Program in
Theoretical Physics;
Ph.D.(Theoretical Physics), The Institute
for Fundamental Study (IF), Naresuan
University, Thailand |

Research Field

Cosmology, Dark Energy models, Theoretical Physics,
Non-Minimal Derivative Coupling,
Thin-Film Computer Simulations

List of Publications

1. Qualitative dynamics of interacting vacuum cosmologies, Chakkrit Kaeonikhom, **Phongsaphat Rangdee**, Hooshyar Assadullahi, Burin Gumjudpai, Jascha A Schewtschenko, and David Wands, *Physical Review D* **102**(12), 123519 (2020).

DOI: [10.1103/PhysRevD.102.123519](https://doi.org/10.1103/PhysRevD.102.123519)

2. Exploring the R[\]enyi Holographic Dark Energy Model with the Future and the Particle Horizons as the Infrared Cut-off, Suphakorn Chunlen, **Phongsaphat Rangdee**, (2020) arXiv preprint arXiv:2008.13730

3. Non-minimal derivative coupling gravity in cosmology, Burin Gumjudpai, **Phongsaphat Rangdee**, *General Relativity and Gravitation* **47**(11), 1-15 (2015).

DOI: doi.org/10.1007/s10714-015-1985-2

4. Tachyonic (phantom) power-law cosmology, **Rachan Rangdee**, Burin Gumjudpai, *Astrophysics and Space Science* **349**(2), 975-984 (2014).

DOI: doi.org/10.1007/s10509-013-1680-2

5. Effects of the Ehrlich–Schwoebel potential barrier on the Wolf–Villain model simulations for thin film growth, **Rachan Rangdee**, Patcha Chatraphorn, *Surface Science* **600**(4), 914-920 (2006).

DOI: doi.org/10.1016/j.susc.2005.12.021