

Burin Gumjudpai's

Full Lists of Scientific Publications (as of November 9, 2010)

Research Articles

in International Refereed Journals

(N.B. SPIRES is a research citation database in High Energy Physics at <http://www.slac.stanford.edu/spires/hep/>)

1. Chakkrit Kaewnikhom, **Burin Gumjudpai** (TPTP, Naresuan U.) and Emmanuel N. Saridakis (Chongqing U., China) "Observational constraints on phantom-power law cosmology"
Physics Letters B **695**, 45 (2011)
[arXiv: 1008.2182 [astro-ph.CO]] [Impact Factor (2009)= **5.083**] [Cited **N/A** time on SPIRES]
2. Kiattisak Tepsuriya (TPTP, Naresuan U. and NARIT) and **Burin Gumjudpai** (TPTP, Naresuan U.) "Determining scalar field potential in power-law cosmology with observational data" (Submitted to *Mod. Phys. Lett. A*)
[arXiv: 0904.2743 [astro-ph.CO]] [Impact Factor (2009)= **xxxx**] [Cited **1** time on SPIRES]
3. Theerakarn Phetnora, Roongtum Sooksan (TPTP, Naresuan U.) & **Burin Gumjudpai** (TPTP, Naresuan U. & DAMTP, U. Cambridge) "Phantom expansion with non-linear Schrödinger-type formulation of scalar field cosmology"
General Relativity and Gravitation **42**, 225 (2010)
[arXiv: 0805.3794 [gr-qc]] [Impact Factor (2009)= **2.616**] [Cited **2** times on **SPIRES**]
4. **Burin Gumjudpai** (DAMTP, U. Cambridge & TPTP, Naresuan U.) and John Ward (U. Victoria, Canada) "Generalised DBI-Quintessence"
Physical Review D **80**, 023528 (2009)
[arXiv: 0904.0472 [astro-ph.CO]] [Impact Factor (2008)= **5.050**] [Cited **8** times on SPIRES]
5. **Burin Gumjudpai** (TPTP, Naresuan U. and Suranaree U. of Tech.) "Scalar field exact solutions for non-flat FLRW cosmology: A technique from non-linear Schrödinger-type formulation" *General Relativity and Gravitation* **41**, 249 (2009)
[arXiv: 0710.3598 [gr-qc]] [Impact Factor (2008)= **1.803**] [Cited **6** times on SPIRES]
6. **Burin Gumjudpai** (DAMTP, U. Cambridge & TPTP, Naresuan U.) "Slow-roll, acceleration, the Big Rip and WKB approximation in NLS-type formulation of scalar field cosmology"
Journal of Cosmology and Astroparticle Physics **09**(2008)028
[arXiv: 0805.3796 [gr-qc]] [Impact Factor (2007)= **6.067**] [Cited **3** time on SPIRES]
7. **Burin Gumjudpai** (TPTP, Naresuan U.) "Power-law expansion cosmology in Schrödinger-type formulation"
Astroparticle Physics **30**, 186 (2008)
[arXiv: 0706.3674 [gr-qc]] [Impact Factor (2007)= **3.483**] [Cited **5** times on SPIRES]
8. Daris Samart and **Burin Gumjudpai** (TPTP, Naresuan U.) "Phantom field dynamics in loop quantum cosmology"
Physical Review D **76**, 043514 (2007)
[arXiv:0704.3414 [gr-qc]] [Impact Factor (2006)= **4.896**] [Cited **35** times on SPIRES]
9. **Burin Gumjudpai** (TPTP, Naresuan U.), Tapan Naskar (IUCAA, India) & John Ward (Queen Mary, U. London) "A quintessentially geometric model" *Journal of Cosmology and Astroparticle Physics* **11**, 006 (2006)
[arXiv: hep-ph/0603210] [Impact Factor (2005)= **6.739**] [Cited **14** times on SPIRES]
10. **Burin Gumjudpai** (TPTP, Naresuan U.), Tapan Naskar (IUCAA, India), M. Sami (IUCAA, India) and Shinji Tsujikawa (Gunma College, Japan) "Coupled dark energy: Towards a general description of the dynamics"
Journal of Cosmology and Astroparticle Physics **06**, 007 (2005)
[arXiv: hep-th/0502191] [Impact Factor (2004)= **7.914**] [Cited **118** times on SPIRES]
11. Shinji Tsujikawa (ICG, U. Portsmouth) and **Burin Gumjudpai** (TPTP, Naresuan U.) "Density perturbations in generalized Einstein scenarios and constraints on nonminimal couplings from the Cosmic Microwave Background" *Physical Review D* **69**, 123523 (2004)
[arXiv: astro-ph/0402185] [Impact Factor (2003)= **4.358**] [Cited **52** times on SPIRES]

- Burin Gumjudpai** (ICG, U. Portsmouth) “Brane-cosmology dynamics with induced gravity” *General Relativity and Gravitation* **36**, 747 (2004)
[arXiv: gr-qc/0308046] [Impact Factor (2003)= **1.214**] [Cited **14** times on SPIRES]
- Burin Gumjudpai**, Roy Maartens (ICG, U. Portsmouth) and Christopher Gordon (DAMTP, U. Cambridge) “Density perturbations in a braneworld universe with dark radiation” *Classical and Quantum Gravity* **20**, 3295 (2003)
[arXiv: gr-qc/0304067] [Impact Factor (2002)= **2.107**] [Cited **16** times on SPIRES]

in National Refereed Journals

(N.B. SPIRES is a research citation database in High Energy Physics at <http://www.slac.stanford.edu/spires/hep/>)

- Burin Gumjudpai** (TPTP, Naresuan U.) “Coupled phantom field in loop quantum cosmology” *Thai Journal of Physics Series 3: Proc. of the SIAM Phys. Cong. 2007*, (invited talk at the Congress)
[arXiv:0706.3467 [gr-qc]] [Cited **12** times on SPIRES]
- Burin Gumjudpai** (TPTP, Naresuan U.) “Monte Carlo simulation of symmetric exchange spring in soft layer of YFe₂/DyFe₂ at near zero temperature” *Naresuan University Journal*, **9** No. 2 (2001)

Review Articles/Monographs

In International Volume

- Burin Gumjudpai** (DAMTP, U. Cambridge and TPTP, Naresuan U.) “Scalar field cosmology: its non-linear Schrödinger-type formulation” *Invited Review* in *Dark Energy-Current Advances and Ideas*, Ed. Jeong Ryeol Choi, Research Signpost 2009
[arXiv: 0904.2746 [gr-qc]] [Cited **0** times on SPIRES]

Lecture Notes/Pedagogical Articles

At Asian Regional Level

- Burin Gumjudpai** (TPTP, Naresuan U.) “Introduction to cosmology” *Proc. the Third Thai School on Cosmology: The Early Universe and the Second Thai Physics and the Universe Symposium* (also in the vol. lecture notes by R. Maartens, M. Hindmarsh, M. Kunz, T. Tanaka, N. Mustapha and D. Parkinson) Department of Physics, Khon Kaen University, Khon Kaen, Thailand (2004)
- Burin Gumjudpai** (ICG, U. Portsmouth) “Introductory overview of modern cosmology” *Proc. the Second Tah Poe International School on Cosmology: Modern Cosmology and the First Thai Physics and the Universe Symposium* (also in the vol. lecture notes by B. Bassett, M. Kunz, S. Tsujikawa, F. Viniegra and N. Singh) Department of Physics, Naresuan University, Phitsanulok, Thailand (2003) [arXiv: astro-ph/0305063]

At National Level

- Burin Gumjudpai** (ICG, U. Portsmouth) “Newtonian cosmology” *Proc. the First Tah Poe School on Cosmology: Introductory Cosmology* (also in the vol. lecture notes by B. Bassett, C. Dariescu and M. A. Dariescu) Department of Physics, Naresuan University, Phitsanulok, Thailand (2002)
- Burin Gumjudpai** (TPTP, Naresuan U.) “Cosmic dark matter: a riddle of nature” *Naresuan University Journal* **8** No. 1 (2000)
- Burin Gumjudpai** (TPTP, Naresuan U.) “ฟิสิกส์วิทยาศาสตร์ และ ปรัชญา (Physics, science and philosophy)” (in Thai) *Naresuan University Journal* **5** No. 1 (1997)

Thesis/Dissertation/Degree Reports

- Burin Gumjudpai** “Braneworld Effects on Cosmological Dynamics” *Ph.D. Thesis, Institute of Cosmology and Gravitation, University of Portsmouth* (Oct. 2003)
Supervisors: Roy Maartens and David Wands
- Burin Gumjudpai** “Craters Formation” *Project Report for Cert. of Professional Development in Astronomy (with Distinction), Astrophysics Research Institute, Liverpool John Moores University* (July 2000)

3. **Burin Gumjudpai** “Tunneling in Field Theory”
Dissertation for M.Sc. in Physics, Centre for Theoretical Physics, University of Sussex (Sept. 1999)
Supervisor: Mark B. Hindmarsh

4. **Burin Gumjudpai** “Ferroelectric Properties of BaTiO₃ Single Crystals” (in Thai)
Independent Study Report for B.S. (Physics), Department of Physics, Chiang Mai University (March 1996)
Supervisor: Gobwute Rujjanakul