

List of publications

Articles

1. Jerome Martin, Christophe Ringeval, and Vincent Vennin. Observing the Inflationary Re-heating. 2014. [arXiv:1410.7958](https://arxiv.org/abs/1410.7958).
2. Jerome Martin, Christophe Ringeval, and Vincent Vennin. How Well Can Future CMB Missions Constrain Cosmic Inflation? *JCAP*, 1410(10):038, 2014. [arXiv:1407.4034](https://arxiv.org/abs/1407.4034), doi:[10.1088/1475-7516/2014/10/038](https://doi.org/10.1088/1475-7516/2014/10/038).
3. Jerome Martin, Christophe Ringeval, Roberto Trotta, and Vincent Vennin. Compatibility of Planck and BICEP2 in the Light of Inflation. *Phys.Rev.*, D90:063501, September 2014. [arXiv:1405.7272](https://arxiv.org/abs/1405.7272), doi:[10.1103/PhysRevD.90.063501](https://doi.org/10.1103/PhysRevD.90.063501).
4. Jerome Martin, Christophe Ringeval, Roberto Trotta, and Vincent Vennin. The Best Inflationary Models After Planck. *JCAP*, 1403:039, 2014. [arXiv:1312.3529](https://arxiv.org/abs/1312.3529), doi:[10.1088/1475-7516/2014/03/039](https://doi.org/10.1088/1475-7516/2014/03/039).
5. Christophe Ringeval. Fast Bayesian inference for slow-roll inflation. *Mon.Not.Roy.Astron.Soc.*, 439:3253, 2014. [arXiv:1312.2347](https://arxiv.org/abs/1312.2347), doi:[10.1093/mnras/stu109](https://doi.org/10.1093/mnras/stu109).
6. P.A.R. Ade et al. Planck 2013 results. I. Overview of products and scientific results. 2013. [arXiv:1303.5062](https://arxiv.org/abs/1303.5062), doi:[10.1051/0004-6361/201321529](https://doi.org/10.1051/0004-6361/201321529).
7. P.A.R. Ade et al. Planck 2013 results. XXV. Searches for cosmic strings and other topological defects. 2013. [arXiv:1303.5085](https://arxiv.org/abs/1303.5085).
8. P.A.R. Ade et al. Planck 2013 results. XV. CMB power spectra and likelihood. 2013. [arXiv:1303.5075](https://arxiv.org/abs/1303.5075).
9. Jerome Martin, Christophe Ringeval, and Vincent Vennin. Encyclopædia Inflationaris. *Phys.Dark Univ.*, 2014. [arXiv:1303.3787](https://arxiv.org/abs/1303.3787), doi:[10.1016/j.dark.2014.01.003](https://doi.org/10.1016/j.dark.2014.01.003).
10. Jose Beltran Jimenez, Marcello Musso, and Christophe Ringeval. Exact Mapping between Tensor and Most General Scalar Power Spectra. *Phys.Rev.*, D88:043524, 2013. [arXiv:1303.2788](https://arxiv.org/abs/1303.2788), doi:[10.1103/PhysRevD.88.043524](https://doi.org/10.1103/PhysRevD.88.043524).
11. Jerome Martin, Christophe Ringeval, and Vincent Vennin. K-inflationary Power Spectra at Second Order. *JCAP*, 1306:021, 2013. [arXiv:1303.2120](https://arxiv.org/abs/1303.2120), doi:[10.1088/1475-7516/2013/06/021](https://doi.org/10.1088/1475-7516/2013/06/021).
12. Christophe Ringeval, Teruaki Suyama, and Jun'ichi Yokoyama. Magneto-reheating constraints from curvature perturbations. *JCAP*, 1309:020, 2013. [arXiv:1302.6013](https://arxiv.org/abs/1302.6013), doi:[10.1088/1475-7516/2013/09/020](https://doi.org/10.1088/1475-7516/2013/09/020).
13. Patrick Peter and Christophe Ringeval. A Boltzmann treatment for the vorton excess problem. *JCAP*, 1305:005, 2013. [arXiv:1302.0953](https://arxiv.org/abs/1302.0953), doi:[10.1088/1475-7516/2013/05/005](https://doi.org/10.1088/1475-7516/2013/05/005).
14. Sachiko Kuroyanagi, Christophe Ringeval, and Tomo Takahashi. Early Universe Tomography with CMB and Gravitational Waves. *Phys.Rev.*, D87:083502, 2013. [arXiv:1301.1778](https://arxiv.org/abs/1301.1778), doi:[10.1103/PhysRevD.87.083502](https://doi.org/10.1103/PhysRevD.87.083502).
15. Sebastien Clesse, Laura Lopez-Honorez, Christophe Ringeval, Hiroyuki Tashiro, and Michel H.G. Tytgat. Background reionization history from omniscopes. *Phys.Rev.*, D86:123506, 2012. [arXiv:1208.4277](https://arxiv.org/abs/1208.4277), doi:[10.1103/PhysRevD.86.123506](https://doi.org/10.1103/PhysRevD.86.123506).

16. Xingang Chen and Christophe Ringeval. Searching for Standard Clocks in the Primordial Universe. *JCAP*, 1208:014, 2012. [arXiv:1205.6085](#), [doi:10.1088/1475-7516/2012/08/014](#).
17. Christophe Ringeval and Francois R. Bouchet. All Sky CMB Map from Cosmic Strings Integrated Sachs-Wolfe Effect. *Phys.Rev.*, D86:023513, 2012. [arXiv:1204.5041](#), [doi:10.1103/PhysRevD.86.023513](#).
18. Vittoria Demozzi and Christophe Ringeval. Reheating constraints in inflationary magnetogenesis. *JCAP*, 1205:009, 2012. [arXiv:1202.3022](#), [doi:10.1088/1475-7516/2012/05/009](#).
19. Jerome Martin, Christophe Ringeval, and Roberto Trotta. Hunting Down the Best Model of Inflation with Bayesian Evidence. *Phys.Rev.*, D83:063524, 2011. [arXiv:1009.4157](#), [doi:10.1103/PhysRevD.83.063524](#).
20. Christophe Ringeval, Teruaki Suyama, Tomo Takahashi, Masahide Yamaguchi, and Shuichiro Yokoyama. Dark energy from primordial inflationary quantum fluctuations. *Phys.Rev.Lett.*, 105:121301, 2010. [arXiv:1006.0368](#), [doi:10.1103/PhysRevLett.105.121301](#).
21. Larissa Lorenz, Christophe Ringeval, and Mairi Sakellariadou. Cosmic string loop distribution on all length scales and at any redshift. *JCAP*, 1010:003, 2010. [arXiv:1006.0931](#), [doi:10.1088/1475-7516/2010/10/003](#).
22. Christophe Ringeval. Cosmic strings and their induced non-Gaussianities in the cosmic microwave background. *Adv.Astron.*, 2010:380507, 2010. [arXiv:1005.4842](#), [doi:10.1155/2010/380507](#).
23. Jerome Martin and Christophe Ringeval. First CMB Constraints on the Inflationary Reheating Temperature. *Phys.Rev.*, D82:023511, 2010. [arXiv:1004.5525](#), [doi:10.1103/PhysRevD.82.023511](#).
24. Sean Murray, Christophe Ringeval, and Simone Zonetti. Graviton confinement inside hypermonopoles of any dimension. *JCAP*, 1009:015, 2010. [arXiv:1002.5021](#), [doi:10.1088/1475-7516/2010/09/015](#).
25. Mark Hindmarsh, Christophe Ringeval, and Teruaki Suyama. The CMB temperature trispectrum of cosmic strings. *Phys.Rev.*, D81:063505, 2010. [arXiv:0911.1241](#), [doi:10.1103/PhysRevD.81.063505](#).
26. Sebastien Clesse, Christophe Ringeval, and Jonathan Rocher. Fractal initial conditions and natural parameter values in hybrid inflation. *Phys.Rev.*, D80:123534, 2009. [arXiv:0909.0402](#), [doi:10.1103/PhysRevD.80.123534](#).
27. Mark Hindmarsh, Christophe Ringeval, and Teruaki Suyama. The CMB temperature bispectrum induced by cosmic strings. *Phys.Rev.*, D80:083501, 2009. [arXiv:0908.0432](#), [doi:10.1103/PhysRevD.80.083501](#).
28. Antonio De Felice and Christophe Ringeval. Charged seven-dimensional spacetimes with spherically symmetric extra-dimensions. *Phys.Rev.*, D79:123525, 2009. [arXiv:0904.0188](#), [doi:10.1103/PhysRevD.79.123525](#).
29. Antonio De Felice and Christophe Ringeval. Massive gravitons trapped inside a hypermonopole. *Phys.Lett.*, B671:158–161, 2009. [arXiv:0809.0464](#), [doi:10.1016/j.physletb.2008.11.052](#).
30. Larissa Lorenz, Jerome Martin, and Christophe Ringeval. K-inflationary Power Spectra in the Uniform Approximation. *Phys.Rev.*, D78:083513, 2008. [arXiv:0807.3037](#), [doi:10.1103/PhysRevD.78.083513](#).

31. Larissa Lorenz, Jerome Martin, and Christophe Ringeval. Constraints on Kinetically Modified Inflation from WMAP5. *Phys.Rev.*, D78:063543, 2008. [arXiv:0807.2414](https://arxiv.org/abs/0807.2414), doi:10.1103/PhysRevD.78.063543.
32. Larissa Lorenz, Jerome Martin, and Christophe Ringeval. Brane inflation and the WMAP data: A Bayesian analysis. *JCAP*, 0804:001, 2008. [arXiv:0709.3758](https://arxiv.org/abs/0709.3758), doi:10.1088/1475-7516/2008/04/001.
33. Aurelien A. Fraisse, Christophe Ringeval, David N. Spergel, and Francois R. Bouchet. Small-Angle CMB Temperature Anisotropies Induced by Cosmic Strings. *Phys.Rev.*, D78:043535, 2008. [arXiv:0708.1162](https://arxiv.org/abs/0708.1162), doi:10.1103/PhysRevD.78.043535.
34. Christophe Ringeval. The exact numerical treatment of inflationary models. *Lect.Notes Phys.*, 738:243–273, 2008. [arXiv:astro-ph/0703486](https://arxiv.org/abs/astro-ph/0703486), doi:10.1007/978-3-540-74353-8_7.
35. Jerome Martin and Christophe Ringeval. Inflation after WMAP3: Confronting the Slow-Roll and Exact Power Spectra to CMB Data. *JCAP*, 0608:009, 2006. [arXiv:astro-ph/0605367](https://arxiv.org/abs/astro-ph/0605367), doi:10.1088/1475-7516/2006/08/009.
36. Christophe Ringeval, Mairi Sakellariadou, and Francois Bouchet. Cosmological evolution of cosmic string loops. *JCAP*, 0702:023, 2007. [arXiv:astro-ph/0511646](https://arxiv.org/abs/astro-ph/0511646), doi:10.1088/1475-7516/2007/02/023.
37. Christophe Ringeval, Philippe Brax, Carsten van de Bruck, and Anne-Christine Davis. Boundary inflation and the wmap data. *Phys.Rev.*, D73:064035, 2006. [arXiv:astro-ph/0509727](https://arxiv.org/abs/astro-ph/0509727), doi:10.1103/PhysRevD.73.064035.
38. Christophe Ringeval and Jan-Willem Rombouts. Metastable gravity on classical defects. *Phys.Rev.*, D71:044001, 2005. [arXiv:hep-th/0411282](https://arxiv.org/abs/hep-th/0411282), doi:10.1103/PhysRevD.71.044001.
39. Jerome Martin and Christophe Ringeval. Exploring the superimposed oscillations parameter space. *JCAP*, 0501:007, 2005. [arXiv:hep-ph/0405249](https://arxiv.org/abs/hep-ph/0405249), doi:10.1088/1475-7516/2005/01/007.
40. Jerome Martin and Christophe Ringeval. Addendum to ‘Superimposed oscillations in the WMAP data?’. *Phys.Rev.*, D69:127303, 2004. [arXiv:astro-ph/0402609](https://arxiv.org/abs/astro-ph/0402609), doi:10.1103/PhysRevD.69.127303.
41. Jerome Martin and Christophe Ringeval. Superimposed oscillations in the WMAP data? *Phys.Rev.*, D69:083515, 2004. [arXiv:astro-ph/0310382](https://arxiv.org/abs/astro-ph/0310382), doi:10.1103/PhysRevD.69.083515.
42. Patrick Peter, Christophe Ringeval, and Jean-Philippe Uzan. Stability of six-dimensional hyperstring brane worlds. *Phys.Rev.*, D71:104018, 2005. [arXiv:hep-th/0301172](https://arxiv.org/abs/hep-th/0301172), doi:10.1103/PhysRevD.71.104018.
43. Christophe Ringeval, Patrick Peter, and Jean-Philippe Uzan. Localization of massive fermions on the brane. *Phys.Rev.*, D65:044016, 2002. [arXiv:hep-th/0109194](https://arxiv.org/abs/hep-th/0109194), doi:10.1103/PhysRevD.65.044016.
44. Christophe Ringeval. Fermionic massive modes along cosmic strings. *Phys.Rev.*, D64:123505, 2001. [arXiv:hep-ph/0106179](https://arxiv.org/abs/hep-ph/0106179), doi:10.1103/PhysRevD.64.123505.
45. Christophe Ringeval. Equation of state of cosmic strings with fermionic current carriers. *Phys.Rev.*, D63:063508, 2001. [arXiv:hep-ph/0007015](https://arxiv.org/abs/hep-ph/0007015), doi:10.1103/PhysRevD.63.063508.
46. C. Ringeval and S. Bouquet. Dynamical stability for the gravitational evolution of a homogeneous polytrope. *Astron. Astrophys.*, 355:564–572, March 2000. URL: <http://adsabs.harvard.edu/abs/2000A%26A...355..564R>.

Conference proceedings

1. Christophe Ringeval, Teruaki Suyama, Tomo Takahashi, Masahide Yamaguchi, and Shuichiro Yokoyama. Dark energy from inflation. *J.Phys.Conf.Ser.*, 485:012023, 2014. [doi:10.1088/1742-6596/485/1/012023](https://doi.org/10.1088/1742-6596/485/1/012023).
2. Christophe Ringeval. Dirac-Born-Infeld and k-inflation: the CMB anisotropies from string theory. *J.Phys.Conf.Ser.*, 203:012056, 2010. [arXiv:0910.2167](https://arxiv.org/abs/0910.2167), [doi:10.1088/1742-6596/203/1/012056](https://doi.org/10.1088/1742-6596/203/1/012056).
3. P. Peter, J.P. Uzan, and Christophe Ringeval. Fine-tuning for the six dimensional hyperstring. In *Proceedings of the MG10 Meeting held at Brazilian Center for Research in Physics (CBPF)*, pages 1707–1712, 2003.
4. R. Durrer, Christophe Ringeval, and T. Boehm. Cosmological instabilities from vector perturbations in braneworlds. In *Proceedings of the MG10 Meeting held at Brazilian Center for Research in Physics (CBPF)*, pages 186–205, 2003.
5. Christophe Ringeval, Timon Boehm, and Ruth Durrer. CMB anisotropies from vector perturbations in the bulk. 2003. [arXiv:hep-th/0307100](https://arxiv.org/abs/hep-th/0307100).
6. P. Peter and Christophe Ringeval. Fermionic current carrying cosmic strings: Zero temperature limit and equation of state. In *Proceedings of Journees Relativistes, Dublin 2001*, 2000. [arXiv:hep-ph/0011308](https://arxiv.org/abs/hep-ph/0011308).

Others

1. Christophe Ringeval. *Fermionic currents flowing along extended objects*. PhD thesis, University Paris 6, 2002. [arXiv:hep-ph/0211126](https://arxiv.org/abs/hep-ph/0211126).
2. Christophe Ringeval. Quelle est l'origine de l'univers ? *Ciel & Espace*, 470:59, 2009.