

Prof. Nicola Vittorio

List of Publications

1. Planck Early Results IX: XMM-Newton follow-up for validation of Planck cluster candidates

Planck Collaboration: ... ,Vittorio N., ... 2011
Astronomy and Astrophysics, in press

2. Planck Early Results VII: The Early Release Compact Source Catalogue

Planck Collaboration: ... ,Vittorio N., ... 2011
Astronomy and Astrophysics, in press

3. Planck Early Results VIII: The all-sky early Sunyaev-Zeldovich cluster sample

Planck Collaboration: ... ,Vittorio N., ... 2011
Astronomy and Astrophysics, in press

4. Planck Early Results: I. The Planck Mission

Planck Collaboration: ... ,Vittorio N., ... 2011
Astronomy and Astrophysics, in press

5. Planck Early Results XIV: ERCSC validation and extreme radio sources

Planck Collaboration: ... ,Vittorio N., ... 2011
Astronomy and Astrophysics, in press

6. Planck Early Results 03: First assesment of the Low Frequency Instrument in-flight performance

Planck Collaboration: ... ,Vittorio N., ... 2011
Astronomy and Astrophysics, in press

7. Planck Early Results: Dust in the diffuse interstellar medium and Galactic Halo

Planck Collaboration: ... ,Vittorio N., ... 2011
Astronomy and Astrophysics, in press

8. Planck Early Results: The thermal performance of Planck

Planck Collaboration: ... ,Vittorio N., ... 2011
Astronomy and Astrophysics, in press

9. "BOOMERanG constraints on primordial non-Gaussianity from analytical Minkowski functionals"

Natoli P., de Troia G., Hikage C., Komatsu E., Migliaccio M., Ade P.A. R., Bock J. J., Bond J. R., Borrill J., Boscaleri A., Vittorio N., et al. 2010
Monthly Notices of the Royal Astronomical Society, Volume 408, Issue 3, pp. 1658-1665.

10. "Planck pre-launch status: Design and description of the Low Frequency Instrument"

Bersanelli M., Mandolesi N., Butler R. C., Mennella A., Villa F., Aja B., Artal E., Artina E., Baccigalupi C., Balasini M., Vittorio N., et al. 2010
Astronomy and Astrophysics, Volume 520, id.A4

11. "Planck pre-launch status: The Planck-LFI programme"

Mandolesi N., Bersanelli M., Butler R. C., Artal E., Baccigalupi C., Balbi A., Banday A. J., Barreiro R. B., Bartelmann M., Bennett K., Vittorio N., et al. 2010

Astronomy and Astrophysics, Volume 520, id.A3

12. "Planck pre-launch status: The Planck mission"

Tauber J. A., Mandolesi N., Puget J.-L., Banos T., Bersanelli M., Bouchet F. R., Butler R. C., Charra J., Crone G., Dodsworth J., Vittorio N., et al. 2010

Astronomy and Astrophysics, Volume 520, id.A1

13. "Foreground influence on primordial non-Gaussianity estimates: needlet analysis of WMAP 5-year data"

Cabella P., Pietrobon D., Veneziani M., Balbi A., Crittenden R., de Gasperis G., Quercellini C., Vittorio N. 2010

Monthly Notices of the Royal Astronomical Society, Volume 405, Issue 2, pp. 961-968.

14. "Needlet bispectrum asymmetries in the WMAP 5-year data"

Pietrobon D., Cabella P., Balbi A., Crittenden R., de Gasperis G., Vittorio N. 2010

Monthly Notices of the Royal Astronomical Society: Letters, Volume 402, Issue 1, pp. L34-L38.

15. "Probing primordial non Gaussianity in the BOOMERanG CMB maps: an analysis based on analytical Minkowski functionals"

Migliaccio M., Natali P., de Troia G., Hikage C., Komatsu E., Ade P. A. R., Bock J. J., Bond J. R., Borrill J., Boscaleri A., Vittorio N., et al. 2009

Nuclear Physics B Proceedings Supplements, Volume 194, p. 278-286.

16. "Subdegree Sunyaev-Zel'dovich Signal from Multifrequency BOOMERANG Observations"

Veneziani M., Amblard A., Cooray A., Piacentini F., Pietrobon D., Serra P., Ade P. A. R., Bock J. J., Bond J. R., Borrill J., Vittorio N., et al. 2009

The Astrophysical Journal Letters, Volume 702, Issue 1, pp. L61-L65 (2009).

17. "Constraints on primordial non-Gaussianity from a needlet analysis of the WMAP-5 data"

Pietrobon D., Cabella P., Balbi A., de Gasperis G., Vittorio N. 2009

Monthly Notices of the Royal Astronomical Society, Volume 396, Issue 3, pp. 1682-1688.

18. "Spherical needlets for cosmic microwave background data analysis"

Marinucci D., Pietrobon D., Balbi A., Baldi P., Cabella P., Kerkycharian G., Natali P., Picard D., Vittorio N. 2008

Monthly Notices of the Royal Astronomical Society, Volume 383, Issue 2, pp. 539-545.

19. "Searching for Non-Gaussian Signals in the BOOMERANG 2003 CMB Maps"

De Troia G., Ade P. A. R., Bock J. J., Bond J. R., Borrill J., Boscaleri A., Cabella P., Contaldi C. R., Crill B. P., de Bernardis P., Vittorio N., et al. 2007

The Astrophysical Journal, Volume 670, Issue 2, pp. L73-L76.

20. "Searching for non-Gaussian signals in the BOOMERanG 2003 CMB map: Preliminary results"

de Troia G., Ade P. A. R., Bock J. J., Bond J. R., Borrill J., Boscaleri A., Cabella P., Contaldi C. R., Crill B. P., de Bernardis P., Vittorio N., et al. 2007

New Astronomy Reviews, Volume 51, Issue 3-4, p. 250-255.

21. "CMB polarization with BOOMERANG 2003"

Piacentini F., Ade P. A. R., Bock J. J., Bond J. R., Borrill J., Boscaleri A., Cabella P., Contaldi C. R., Crill B. P., de Bernardis P., Vittorio N., et al. 2007

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22. "The millimeter sky as seen with BOOMERanG"

Masi S., Ade P. A. R., Bock J. J., Bond J. R., Borrill J., Boscaleri A., Cabella P., Contaldi C. R., Crill B. P., de Bernardis P., Vittorio N., et al. 2007

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23. "Observations of the temperature and polarization anisotropies with BOOMERANG 2003"

Jones W. C., Ade P. A. R., Bock J. J., Bond J. R., Borrill J., Boscaleri A., Cabella P., Contaldi C. R., Crill B. P., de Bernardis P., Vittorio N., et al. 2006

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24. "Instrument, method, brightness, and polarization maps from the 2003 flight of BOOMERanG"

Masi S., Ade P. A. R., Bock J. J., Bond J. R., Borrill J., Boscaleri A., Cabella P., Contaldi C. R., Crill B. P., de Bernardis P., Vittorio N., et al. 2006
Astronomy and Astrophysics, Volume 458, Issue 3, November 11 2006, pp.687-716

25. "A Measurement of the Polarization-Temperature Angular Cross-Power Spectrum of the Cosmic Microwave Background from the 2003 Flight of BOOMERANG"

Piacentini F., Ade P. A. R., Bock J. J., Bond J. R., Borrill J., Boscaleri A., Cabella P., Contaldi C. R., Crill B. P., de Bernardis P., Vittorio N., et al. 2006
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27. "A Measurement of the CMB ℓ - ℓ Spectrum from the 2003 Flight of BOOMERANG"

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28. "Cosmological Parameters from the 2003 Flight of BOOMERANG"

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29. "The integrated bispectrum as a test of cosmic microwave background non-Gaussianity: detection power and limits on f_{NL} with WMAP data"

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30. "Unbiased estimation of an angular power spectrum"

Polenta G., Marinucci D., Balbi A., de Bernardis P., Hivon E., Masi S., Natoli P., Vittorio N. 2005
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31. "ROMA: A map-making algorithm for polarised CMB data sets"

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32. "Primordial non-Gaussianity: local curvature method and statistical significance of constraints on f_{NL} from WMAP data"

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- 35. "Search for non-Gaussianity in pixel, harmonic, and wavelet space: Compared and combined"**
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- 36. "Measuring CMB polarization with Boomerang"**
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- 37. "The empirical process approach for detection of non-Gaussianity in the CMB"**
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- 39. "Scalar field dark energy and cosmic microwave background"**
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- 40. "Extended empirical process test for non-Gaussianity in the CMB, with an application to non-Gaussian inflationary models"**
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- 41. "Probing Dark Energy with the Cosmic Microwave Background: Projected Constraints from the Wilkinson Microwave Anisotropy Probe and Planck"**
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- 42. "CMB power spectrum estimation for the Planck Surveyor"**
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- 43. "Testing for non-Gaussianity of the cosmic microwave background in harmonic space: An empirical process approach"**
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- 44. "What's behind acoustic peaks in the cosmic microwave background anisotropies"**
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- 45. "The new images of the microwave sky: a concordance cosmology ?"**
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- 46. "Search for Non-Gaussian Signals in the BOOMERANG Maps: Pixel-Space Analysis"**
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- 47. "On the Primordial Helium Content: Cosmic Microwave Background and Stellar Constraints"**
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- 48. "Constraints on flat cosmologies with tracking quintessence from cosmic microwave background observations"**
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- 49. "Non-iterative methods to estimate the in-flight noise properties of CMB detectors"**
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- 50. "A Map-Making algorithm for the Planck Surveyor."**
Natoli P., de Gasperis G., Gheller C., Vittorio N. 2001
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- 51. "Implications for Quintessence Models from MAXIMA-I and BOOMERANG-98"**
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- 52. "A Measurement of Ω_m from the North American Test Flight of Boomerang"**
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- 53. "Measurement of a Peak in the Cosmic Microwave Background Power Spectrum from the North American Test Flight of Boomerang"**
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- 56. "The Gravitational Wave Contribution to the Cosmic Microwave Background Anisotropies"**
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- 58. "Evolution of distant X-ray clusters of galaxies: the BeppoSAX data"**
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- 59. "Ionization balance for optically thin plasmas: Rate coefficients for all atoms and ions of the elements H to Ni"**
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- 61. "Is the Cluster Temperature Function a Reliable Test for Ω_0 ?"**
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- 62. "Cosmic Microwave Background Anisotropy at Degree Angular Scales and the Thermal History of the Universe"**
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- 64. "Sub-degree CMB anisotropy from space. II. In-flight calibration"**
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- 68. "Tilted hybrid dark matter models and cosmic microwave background anisotropies"**
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- 69. "COBRAS: Goal and Experimental Approach"**
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- 70. "COBRAS: A Space Mission for Mapping the CMB Structure at 0.5deg Resolution"**
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- 71. "Foreground Contributions to 0.2-2deg; CMB Anisotropies"**
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- 72. "Preface"**
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- 73. "Cosmic microwave background anisotropy induced by gas in clusters of galaxies"**
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- 75. "Cosmic microwave background anisotropies and the large scale structure of the universe"**
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- 76. "X-ray clusters and gravitational instability theories"**
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- 78. "COBE DMR data and the primordial index of density fluctuations"**
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- 80. "Tilted cold dark matter models confront the cosmic microwave background and the galaxy peculiar velocity field"**
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- 83. "Cold dark matter confronts the cosmic microwave background - Large-angular-scale anisotropies in $\Omega_0 + \Lambda$ models"**
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