

## List of publications

- [1] CURTO A, MACIAS-PEREZ J.F, MARTINEZ-GONZALEZ E, BARREIRO R.B, SANTOS D, HANSEN F.K, LIGUORI M., and MATARRESE S. Constraints on the non-linear coupling parameter  $f_{nl}$  with the archeops data. *ASTRONOMY & ASTROPHYSICS*, 486:383–391, 2008.
- [2] CURTO A, MARTINEZ-GONZALEZ, MUKHERJEE P, BARREIRO R.B, HANSEN F.K, LIGUORI M., and MATARRESE S. Wilkinson microwave anisotropy probe 5-year constraints on  $f_{nl}$  with wavelets. *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*, 393:615–622, 2009.
- [3] YADAV A, KOMATSU E, WANDELT B, LIGUORI M., HANSEN F.K, and MATARRESE S. Fast estimator of primordial non-gaussianity from temperature and polarization anisotropies in the cosmic microwave background ii: Partial sky coverage and inhomogeneous noise. *THE ASTROPHYSICAL JOURNAL*, 678:578–582, 2008.
- [4] HIKAGE C, MATSUBARA T, COLES P, LIGUORI M., HANSEN F.K, and MATARRESE S. Primordial non-gaussianity from minkowski functionals of the wmap temperature anisotropies. *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*, 389:1439–1446, 2008.
- [5] P. CABELLA, F.K. HANSEN, LIGUORI M., D. MARINUCCI, S. MATARRESE, L. MOSCARDINI, and N. VITTORIO. The integrated bispectrum as a test of cmb non-gaussianity: detection power and limits on  $f_{nl}$  with wmap data. *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*, ??: Submitted to MNRAS.
- [6] P. CABELLA, LIGUORI M., F.K. HANSEN, D. MARINUCCI, S. MATARRESE, L. MOSCARDINI, and N. VITTORIO. Primordial non-gaussianity: local curvature method and statistical significance of constraints on  $f_{nl}$  from wmap data. *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*, 358:684–692, 2005.
- [7] Scott Dodelson and LIGUORI M. Can cosmic structure form without dark matter? *PHYSICAL REVIEW LETTERS*, 97:–, 2006.
- [8] Simona Donzelli, Frode K. Hansen, LIGUORI M., and Davide Maino. Impact of the  $1/f_{noise}$  and the asymmetric beam on non-gaussianity searches with planck. *THE ASTROPHYSICAL JOURNAL*, 706:1226–1240, 2009.
- [9] Simona Donzelli, Frode K. Hansen, LIGUORI M., Domenico Marinucci, and Sabino Matarrese. On the linear term correction for needlet/wavelet non-gaussianity estimators. *THE ASTROPHYSICAL JOURNAL*, 755:19–1–19–10, 2012.
- [10] J. Fergusson, LIGUORI M., and E. Shellard. General cmb and primordial bispectrum estimation: Mode expansion, map making, and measures of  $f_{NL}$ . *PHYSICAL REVIEW D, PARTICLES, FIELDS, GRAVITATION, AND COSMOLOGY*, 82:1–30, 2010.

- [11] 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, DE GASPERIS G, DE OLIVEIRA-COSTA A, DI STEFANO G, FERREIRA P.G, HIVON E, JAFFE A.J, KISNER T.S, KUNZ M, JONES W.C, LANGE A.E, LIGUORI M., MASI S, MATARRESE S., MAUSKOPF P.D, MACTAVISH C.J, MELCHIORRI A, MONTROY T.E, NATOLI P, NETTERFIELD C.B, PASCALE E, PIACENTINI F, POGOSYAN D, POLENTA G, PRUNET S, RICCIARDI S, ROMEO G, RUHL J.E, SANTINI P, TEGMARK M, VENEZIANI M, and VITTORIO N. Searching for non gaussian signals in the boomerang 2003 cmb maps. *THE ASTROPHYSICAL JOURNAL*, 670:L73–L76, 2007.
- [12] Cristiano Germani and LIGUORI M. Matching wmap 3-year results with the cosmological slingshot primordial spectrum. *GENERAL RELATIVITY AND GRAVITATION*, 41:191–201, 2008.
- [13] Duncan Hanson, Kendrick Smith, Anthony Challinor, and LIGUORI M. Cmb lensing and primordial non-gaussianity. *PHYSICAL REVIEW D, PARTICLES, FIELDS, GRAVITATION, AND COSMOLOGY*, 80:1–9, 2009.
- [14] LESGOURGUES J., LIGUORI M., MATARRESE S., and RIOTTO A. Cmb lensing extraction and primordial non-gaussianity. *PHYSICAL REVIEW D*, 71:103514–1–103514–6, 2005.
- [15] JULIEN LESGOURGUES, LIGUORI M., SABINO MATARRESE, and ANTONIO RIOTTO. Cmb lensing extraction and primordial non-gaussianity. *PHYSICAL REVIEW D*, 71:103514–1–103514–6, 2005.
- [16] LIGUORI M., YADAV A, HANSEN F.K, KOMATSU E, MATARRESE S., and WANDELT B. Temperature and polarization cmb maps from primordial non-gaussianities of the local type. *PHYSICAL REVIEW D, PARTICLES, FIELDS, GRAVITATION, AND COSMOLOGY*, 76:105016–1–105016–10, 2007.
- [17] LIGUORI M., HANSEN F.K., KOMATSU E., MATARRESE S., and RIOTTO A. Testing primordial non-gaussianity in cmb anisotropies. *PHYSICAL REVIEW D*, 73:043505–1–043505–12, 2006.
- [18] LIGUORI M., F. K. HANSEN, E. KOMATSU, S. MATARRESE, and A. RIOTTO. Testing primordial non-gaussianity in cmb anisotropies. *PHYSICAL REVIEW D*, 73:043505–1–043505–12, 2006.
- [19] LIGUORI M. and Antonio Riotto. Impact of uncertainties in the cosmological parameters on the measurement of primordial non-gaussianity. *PHYSICAL REVIEW D, PARTICLES, FIELDS, GRAVITATION, AND COSMOLOGY*, 78:–, 2008.
- [20] LIGUORI M., MATARRESE S., MUSSO M.A., and RIOTTO A. Stochastic inflation and the lower multipoles in the cmb anisotropies. *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*, 0408 (011):1–15, 2004.

- [21] LIGUORI M., Emiliano Sefusatti, James R. Fergusson, and E. P. S. Shellard. Primordial non-gaussianity and bispectrum measurements in the cosmic microwave background and large-scale structure. *ADVANCES IN ASTRONOMY*, 2010:1–64, 2010.
- [22] BAROLO N, DIMASTROGIOVANNI E, LIGUORI M., S. MATARRESE, and RIOTTO A. An estimator for statistical anisotropy from the cmb bispectrum. *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*, 1201:029–0–029–28, 2012.
- [23] RUDJORD O, HANSEN F.K, LAN X, LIGUORI M., MARINUCCI D, and MATARRESE S. An estimate of the primordial non-gaussianity parameter  $f_{nl}$  using the needlet bispectrum from wmap. *THE ASTROPHYSICAL JOURNAL*, 701:369–376, 2009.
- [24] RUDJORD O, HANSEN F.K, LAN X, LIGUORI M., MARINUCCI D, and MATARRESE S. Directional variations of the non-gaussianity parameter  $f_{nl}$ . *THE ASTROPHYSICAL JOURNAL*, 708:1321–1325, 2010.
- [25] CABELLA P, HANSEN F.K, LIGUORI M., MARINUCCI D, MATARRESE S., MOSCARDINI L, and VITTORIO N. The integrated bispectrum as a test of cosmic microwave background non-gaussianity: detection power and limits on  $f_{nl}$  with wmap data. *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*, 369:819–824, 2006.
- [26] CABELLA P., LIGUORI M., HANSEN F.K., MARINUCCI D., MATARRESE S., MOSCARDINI L., and VITTORIO N. Primordial non-gaussianity: local curvature method and statistical significance of constraints on  $f_{nl}$  from wmap data. *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*, 358:684–692, 2005.
- [27] Fabian Schmidt, LIGUORI M., and Scott Dodelson. Galaxy-cmb cross-correlation as a probe of alternative models of gravity. *PHYSICAL REVIEW D, PARTICLES, FIELDS, GRAVITATION, AND COSMOLOGY*, 76:–, 2007.
- [28] Emiliano Sefusatti, LIGUORI M., Amit P.S Yadav, Mark G Jackson, and Enrico Pajer. Constraining running non-gaussianity. *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*, 2009:022–045, 2009.
- [29] Pengjie Zhang, LIGUORI M., Rachel Bean, and Scott Dodelson. Probing gravity at cosmological scales by measurements which test the relationship between gravitational lensing and matter overdensity. *PHYSICAL REVIEW LETTERS*, 99:–, 2007.