

## In refereed journals

- Andersen, B.N., Barth, S., Hansteen, V., Leifsen, T., Lilje, P.B. and Vikanes, F.: “The Limb Effect of the KI Resonance Line, 769.9 nm”, *Solar Physics*, **99**, 17–20 (1985).
- Lilje, P.B., Yahil, A. and Jones, B.J.T.: “The Tidal Velocity Field in the Local Supercluster”, *Astrophys. J.*, **307**, 91–96 (1986).
- Lilje, P.B. and Efstathiou, G.: “The Cross-Correlation of Abell Clusters with the Lick Galaxy Counts”, *Mon. Not. R. astr. Soc.*, **231**, 635–655 (1988).
- Lilje, P.B. and Efstathiou, G.: “Gravitationally Induced Velocity Fields in the Universe. I: Correlation Functions”, *Mon. Not. R. astr. Soc.*, **236**, 851–864 (1989).
- Lilje, P.B.: “Evolution of Clusters in a Hybrid Hot Dark Matter Universe”, *Astrophys. J.*, **351**, 1–9 (1990).
- Lilje, P.B. and Lahav, O.: “Evolution of Velocity and Density Fields around Clusters of Galaxies”, *Astrophys. J.*, **374**, 29–43 (1991).
- Lahav, O., Lilje, P.B., Primack, J.R. and Rees, M.J.: “Dynamical Effects of the Cosmological Constant”, *Mon. Not. R. astr. Soc.*, **251**, 128–136 (1991).
- Lilje, P.B.: “Abundance of Rich Clusters of Galaxies: A Test for Cosmological Parameters”, *Astrophys. J. Lett.*, **386**, L33–L36 (1992).
- Dahle, H., Maddox, S.J. and Lilje, P.B.: “Deep Imaging of the Double Quasar QSO 0957+561: New constraints on  $H_0$ ”, *Astrophys. J. Lett.*, **435**, L79–L82 (1994).
- Serjeant, S., Rawlings, S., Maddox, S.J., Baker, J.C., Clements, D., Lacy, M. and Lilje, P.B.: “The Radio-Optical Correlation in Steep-Spectrum Quasars”, *Mon. Not. R. astr. Soc.*, **294**, 494–504 (1998).
- Hansen, F.K. and Lilje, P.B.: “The radiative transfer equations for Compton scattering of polarized low frequency radiation on a hot electron gas”, *Mon. Not. R. astr. Soc.*, **306**, 153–160 (1999).
- Lacy, M., Ridgway, S.E., Wold, M., Lilje, P.B. and Rawlings, S.: “Radio-optical alignments in a low radio luminosity sample”, *Mon. Not. R. astr. Soc.*, **307**, 420–432 (1999).
- Wold, M., Lacy, M., Lilje, P.B. and Serjeant, S.: “Clustering of galaxies around radio quasars at  $0.5 \leq z \leq 0.8$ ”, *Mon. Not. R. astr. Soc.*, **316**, 267–282 (2000).
- Wold, M., Lacy, M., Lilje, P.B. and Serjeant, S.: “Radio-quiet quasar environments at  $0.5 \leq z \leq 0.8$ ”, *Mon. Not. R. astr. Soc.*, **323**, 231–247 (2001).
- Dahle, H., Kaiser, N., Irgens, R., Lilje, P.B., and Maddox, S.J.: “Weak Gravitational Lensing by a Sample of X-Ray Luminous Clusters of Galaxies. I. The Data Set”, *Astrophys. J. Suppl.*, **139**, 313–368 (2002).
- Wold, M., Lacy, M., Dahle, H., Lilje, P. B., and Ridgway, S.E.: “AGN-selected clusters as revealed by weak lensing”, *Mon. Not. R. astr. Soc.*, **335**, 1017–1036 (2002).

- Irgens, R.J., Lilje, P.B., Dahle, H. and Maddox, S.J.: “Weak Gravitational Lensing by a Sample of X-Ray Luminous Clusters of Galaxies. II. Comparison with Virial Masses”, *Astrophys. J.*, **579**, 227–235 (2002).
- Dahle, H., Pedersen, K., Lilje, P. B., Maddox, S. J., and Kaiser, N.: “Weak Gravitational Lensing by a Sample of X-Ray Luminous Clusters of Galaxies. III. Serendipitous Weak Lensing Detections of Dark and Luminous Mass Concentrations”, *Astrophys. J.*, **591**, 662–676 (2003).
- Eriksen, H. K., Hansen, F. K., Banday, A. J., Górski, K. M., and Lilje, P. B.: “Asymmetries in the Cosmic Microwave Background Anisotropy Field”, *Astrophys. J.*, **605**, 14–20 (2004).
- Eriksen, H. K., Lilje, P. B., Banday, A.J., and Górski, K. M.: “Estimating N-Point Correlation Functions from Pixelized Sky Maps”, *Astrophys. J. Suppl.*, **151**, 1–11 (2004).
- Eriksen, H. K., Novikov, D. I., Lilje, P. B., Banday, A. J., and Górski, K. M.: “Testing for Non-Gaussianity in the Wilkinson Microwave Anisotropy Probe Data: Minkowski Functionals and the Length of the Skeleton”, *Astrophys. J.*, **612**, 64–80 (2004).
- Eriksen, H. K., Banday, K. M., Górski, K. M., and Lilje, P. B.: “On Foreground Removal from the Wilkinson Microwave Anisotropy Probe Data by an Internal Linear Combination Method: Limitations and Implications”, *Astrophys. J.*, **612**, 633–646 (2004).
- Smith, R. E., Dahle, H., Maddox, S. J., and Lilje, P. B.: “Spectro-Photometric and Weak Lensing Survey of a Supercluster and Typical Field Region. I. Spectroscopic Redshift Measurements”, *Astrophys. J.*, **617**, 811–828 (2004).
- Eriksen, H. K., O’Dwyer, I. J., Jewell, J. B., Wandelt, B. D., Larson, D. L., Górski, K. M., Levin, S., Banday, A. J., and Lilje, P. B.: “Power Spectrum Estimation from High-Resolution Maps by Gibbs Sampling”, *Astrophys. J. Suppl.*, **155**, 227–241 (2004).
- O’Dwyer, I. J., Eriksen, H. K., Wandelt, B. D., Jewell, J. B., Larson, D. L., Górski, K. M., Banday, A. J., Levin, S., and Lilje, P. B.: “Bayesian Power Spectrum Analysis of the First-Year WMAP Data”, *Astrophys. J. Lett.*, **617**, L99–L102 (2004).
- Eriksen, H. K., Banday, A. J., Górski, K. M., and Lilje, P. B.: “The N-Point Correlation Functions of the First-Year Wilkinson Microwave Anisotropy Probe Sky Maps”, *Astrophys. J.*, **622**, 58–71 (2005).
- Bielewicz, P., Eriksen, H. K., Banday, A. J., Górski, K. M., and Lilje, P. B.: “Multipole Vector Anomalies in the First-Year WMAP Data: A Cut-Sky Analysis”, *Astrophys. J.*, **635**, 750–760 (2005).
- Eriksen, H. K., Dickinson, C., Lawrence, C. R., Baccigalupi, C., Banday, A. J., Górski, K. M., Hansen, F. K., Lilje, P. B., Pierpaoli, E., Seiffert, M. D., Smith, K. M., and Vanderlinde, K.: “Cosmic Microwave Background Component Separation by Parameter Estimation”, *Astrophys. J.*, **641**, 665–682 (2006).
- Hansen, F. K., Banday, A. J., Eriksen, H. K., Górski, K. M., and Lilje, P. B.: “Foreground Subtraction of Cosmic Microwave Background Maps using WI-FIT (Wavelet based High Resolution Fitting of Internal Templates)”, *Astrophys. J.*, **648**, 784–796 (2006).
- Eriksen, H. K., Banday, A. J., Górski, K. M., Hansen, F. K., and Lilje, P. B.: “Hemispherical power asymmetry in the three-year Wilkinson Microwave Anisotropy Probe sky maps”, *Astrophys. J. Lett.*, **660**, L81–L84 (2007).
- Hoftuft, J., Eriksen, H. K., Banday, A. J., Górski, K. M., Hansen, F. K., and Lilje, P.B.: “Increasing Evidence for Hemispherical Power Asymmetry in the Five-Year WMAP Data”, *Astrophys. J.*, **699**, 985–989 (2009).

- Hansen, F. K., Banday, A. J., Górski, K. M., Eriksen, H. K., and Lilje, P. B.: “Power Asymmetry in Cosmic Microwave Background Fluctuations from Full Sky to Sub-Degree Scales: Is the Universe Isotropic?”, *Astrophys. J.*, **704**, 1448–1458 (2009).
- Gjerløw, E., Eriksen, H. K., Banday, A. J., Górski, K. M., and Lilje, P. B.: “The Two- and Three-Point Correlation Functions of the Polarized Five-Year WMAP Sky Maps”, *Astrophys. J.*, **710**, 689–697 (2010).
- Tauber, J. A., ..., Lilje, P. B., et al.: “Planck pre-launch status: The *Planck* mission”, *Astron. & Astrophys.*, **520**, A1 (2010).
- Mandolesi, N., ..., Lilje, P. B., et al.: “Planck pre-launch status: The *Planck-LFI* programme”, *Astron. & Astrophys.*, **520**, A3 (2010).
- Bersanelli, M., ..., Lilje, P. B., et al.: “Planck pre-launch status: Design and description of the Low Frequency Instrument”, *Astron. & Astrophys.*, **520**, A4 (2010).
- Mennella, A., ..., Lilje, P. B., et al.: “Planck pre-launch status: Low Frequency Instrument calibration and expected scientific performance”, *Astron. & Astrophys.*, **520**, A5 (2010).
- Planck Collaboration: “Planck early results. I. The *Planck* mission”, *Astron. & Astrophys.*, **536**, A1 (2011).
- Planck Collaboration: “Planck early results. II. The thermal performance of *Planck*”, *Astron. & Astrophys.*, **536**, A2 (2011).
- Mennella, A., ..., Lilje, P. B. et al.: “Planck early results. III. First assessment of the Low Frequency Instrument in-flight performance”, *Astron. & Astrophys.*, **536**, A3 (2011).
- Zacchei, A., ..., Lilje, P. B. et al.: “Planck early results. V. The Low Frequency Instrument data processing”, *Astron. & Astrophys.*, **536**, A5 (2011).
- Planck Collaboration: “Planck early results. VII. The Early Release Compact Source Catalogue”, *Astron. & Astrophys.*, **536**, A7 (2011).
- Planck Collaboration: “Planck early results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample”, *Astron. & Astrophys.*, **536**, A8 (2011).
- Planck Collaboration: “Planck early results. XI. Calibration of the local galaxy cluster Sunyaev-Zeldovich scaling relations”, *Astron. & Astrophys.*, **536**, A11 (2011).
- Planck Collaboration: “Planck early results. XIII. Statistical properties of extragalactic radio sources in the Planck Early Release Compact Source Catalogue”, *Astron. & Astrophys.*, **536**, A13 (2011).
- Planck Collaboration: “Planck early results. XVIII. The power spectrum of cosmic infrared background anisotropies”, *Astron. & Astrophys.*, **536**, A18 (2011).
- Planck Collaboration: “Planck early results. XIX. All-sky temperature and dust optical depth from Planck and IRAS. Constraints on the “dark gas” in our Galaxy”, *Astron. & Astrophys.*, **536**, A19 (2011).
- Planck Collaboration: “Planck early results. XX. New light on anomalous microwave emission from spinning dust grains”, *Astron. & Astrophys.*, **536**, A20 (2011).
- Planck Collaboration: “Planck early results. XXI. Properties of the interstellar medium in the Galactic plane”, *Astron. & Astrophys.*, **536**, A21 (2011).

Planck Collaboration: “Planck early results. XXVI. Detection with *Planck* and confirmation by XMM-Newton of PLCK G266.6-27.3, an exceptionally X-ray luminous and massive galaxy cluster at  $z \sim 1$ ”, *Astron. & Astrophys.*, **536**, A26 (2011).

Planck Collaboration: “Planck intermediate results. I. Further validation of new *Planck* clusters with XMM-Newton”, *Astron. & Astrophys.*, **543**, A102 (2012).

Planck and AMI Collaborations: “Planck intermediate results. II. Comparison of Sunyaev-Zeldovich measurements from *Planck* and from the Arcminute Microkelvin Imager for 11 galaxy clusters”, *Astron. & Astrophys.*, **550**, A128 (2013).

Planck Collaboration: “Planck intermediate results. III. The relation between galaxy cluster mass and Sunyaev-Zeldovich signal”, *Astron. & Astrophys.*, **550**, A129 (2013).

Planck Collaboration: “Planck intermediate results. IV. The XMM-Newton validation programme for new *Planck* galaxy clusters”, *Astron. & Astrophys.*, **550**, A130 (2013).

Planck Collaboration: “Planck intermediate results. V. Pressure profiles of galaxy clusters from the Sunyaev-Zeldovich effect”, *Astron. & Astrophys.*, **550**, A131 (2013).

Planck Collaboration: “Planck intermediate results. VI. The dynamical structure of PLCKG214.6+37.0, a *Planck* discovered triple system of galaxy clusters”, *Astron. & Astrophys.*, **550**, A132 (2013).

Planck Collaboration: “Planck intermediate results. VII. Statistical properties of infrared and radio extragalactic sources from the *Planck* Early Release Compact Source Catalogue at frequencies between 100 and 857 GHz”, *Astron. & Astrophys.*, **550**, A133 (2013).

Planck Collaboration: “Planck intermediate results. VIII. Filaments between interacting clusters”, *Astron. & Astrophys.*, **550**, A134 (2013).

Planck Collaboration: “Planck intermediate results. IX. Detection of the Galactic haze with *Planck*”, *Astron. & Astrophys.*, **554**, A139 (2013).

Planck Collaboration: “Planck intermediate results. X. Physics of the hot gas in the Coma cluster”, *Astron. & Astrophys.*, **554**, A140 (2013).

Planck Collaboration: “Planck intermediate results. XI. The gas content of dark matter halos: the Sunyaev-Zeldovich-stellar mass relation for locally brightest galaxies”, *Astron. & Astrophys.*, **557**, A52 (2013).

Planck Collaboration: “Planck intermediate results. XII. Diffuse Galactic components in the Gould Belt System”, *Astron. & Astrophys.*, **557**, A53 (2013).

Planck Collaboration: “Planck intermediate results. XIII. Constraints on peculiar velocities”, *Astron. & Astrophys.*, **561**, A97 (2014).

Planck Collaboration: “Planck intermediate results. XIV. Dust emission at millimetre wavelengths in the Galactic plane”, *Astron. & Astrophys.*, **564**, A45 (2014).

Planck Collaboration: “Planck intermediate results. XV. A study of anomalous microwave emission in Galactic clouds”, *Astron. & Astrophys.*, **565**, A103 (2014).

Planck Collaboration: “Planck intermediate results. XVI. Profile likelihoods for cosmological parameters”, *Astron. & Astrophys.*, **566**, A54 (2014).

Planck Collaboration: “Planck intermediate results. XVII. Emission of dust in the diffuse interstellar medium from the far-infrared to microwave frequencies”, *Astron. & Astrophys.*, **566**, A55 (2014).

Maciaszek, T., ... Lilje, P.B. et al.: “*Euclid* near infrared spectrophotometer instrument concept and first test results at the end of phase B”, *Proceedings of the SPIE*, **9143**, 91430K (2014).

Planck Collaboration: “Planck 2013 results. I. Overview of products and scientific results”, *Astron. & Astrophys.*, **571**, A1 (2014).

Planck Collaboration: “Planck 2013 results. II. Low Frequency Instrument data processing”, *Astron. & Astrophys.*, **571**, A2 (2014).

Planck Collaboration: “Planck 2013 results. III. LFI systematic uncertainties”, *Astron. & Astrophys.*, **571**, A3 (2014).

Planck Collaboration: “Planck 2013 results. IV. Low Frequency Instrument beams and window functions”, *Astron. & Astrophys.*, **571**, A4 (2014).

Planck Collaboration: “Planck 2013 results. V. LFI calibration”, *Astron. & Astrophys.*, **571**, A5 (2014).

Planck Collaboration: “Planck 2013 results. VI. High Frequency Instrument data processing”, *Astron. & Astrophys.*, **571**, A6 (2014).

Planck Collaboration: “Planck 2013 results. VII. HFI time response and beams”, *Astron. & Astrophys.*, **571**, A7 (2014).

Planck Collaboration: “Planck 2013 results. VIII. HFI photometric calibration and mapmaking”, *Astron. & Astrophys.*, **571**, A8 (2014).

Planck Collaboration.: “Planck 2013 results. IX. HFI spectral response”, *Astron. & Astrophys.*, **571**, A9 (2014).

Planck Collaboration.: “Planck 2013 results. X. HFI energetic particle effects: characterization, removal, and simulation”, *Astron. & Astrophys.*, **571**, A10 (2014).

Planck Collaboration.: “Planck 2013 results. XI. All-sky model of thermal dust emission”, *Astron. & Astrophys.*, **571**, A11 (2014).

Planck Collaboration: “Planck 2013 results. XII. Diffuse component separation”, *Astron. & Astrophys.*, **571**, A12 (2014).

Planck Collaboration: “Planck 2013 results. XIII. Galactic CO emission”, *Astron. & Astrophys.*, **571**, A13 (2014).

Planck Collaboration: “Planck 2013 results. XIV. Zodiacal emission”, *Astron. & Astrophys.*, **571**, A14 (2014).

Planck Collaboration: “Planck 2013 results. XV. CMB power spectra and likelihood”, *Astron. & Astrophys.*, **571**, A15 (2014).

Planck Collaboration: “Planck 2013 results. XVI. Cosmological parameters”, *Astron. & Astrophys.*, **571**, A16 (2014).

Planck Collaboration: “Planck 2013 results. XVII. Gravitational lensing by large-scale structure”, *Astron. & Astrophys.*, **571**, A17 (2014).

Planck Collaboration: “Planck 2013 results. XVIII. The gravitational lensing-infrared background correlation”, *Astron. & Astrophys.*, **571**, A18 (2014).

Planck Collaboration: “Planck 2013 results. XIX. The integrated Sachs-Wolfe effect”, *Astron. & Astrophys.*, **571**, A19 (2014).

Planck Collaboration: “Planck 2013 results. XX. Cosmology from Sunyaev-Zeldovich cluster counts”, *Astron. & Astrophys.*, **571**, A20 (2014).

Planck Collaboration: “Planck 2013 results. XXI. Power spectrum and high-order statistics of the *Planck* all-sky Compton parameter map”, *Astron. & Astrophys.*, **571**, A21 (2014).

Planck Collaboration: “Planck 2013 results. XXII. Constraints on inflation”, *Astron. & Astrophys.*, **571**, A22 (2014).

Planck Collaboration: “Planck 2013 results. XXIII. Isotropy and statistics of the CMB”, *Astron. & Astrophys.*, **571**, A23 (2014).

Planck Collaboration: “Planck 2013 results. XXIV. Constraints on primordial non-Gaussianity”, *Astron. & Astrophys.*, **571**, A24 (2014).

Planck Collaboration: “Planck 2013 results. XXV. Searches for cosmic strings and other topological defects”, *Astron. & Astrophys.*, **571**, A25 (2014).

Planck Collaboration: “Planck 2013 results. XXVI. Background geometry and topology of the Universe”, *Astron. & Astrophys.*, **571**, A26 (2014).

Planck Collaboration: “Planck 2013 results. XXVII. Doppler boosting of the CMB: Eppur si muove”, *Astron. & Astrophys.*, **571**, A27 (2014).

Planck Collaboration: “Planck 2013 results. XXVIII. The *Planck* Catalogue of Compact Sources”, *Astron. & Astrophys.*, **571**, A28 (2014).

Planck Collaboration: “Planck 2013 results. XXIX. The *Planck* catalogue of Sunyaev-Zeldovich sources”, *Astron. & Astrophys.*, **571**, A29 (2014).

Planck Collaboration: “Planck 2013 results. XXX. Cosmic infrared background measurements and implications for star formation”, *Astron. & Astrophys.*, **571**, A30 (2014).

Planck Collaboration: “Planck 2013 results. XXXI. Consistency of the *Planck* data”, *Astron. & Astrophys.*, **571**, A31 (2014).

Planck Collaboration: “Planck intermediate results. XVIII. The millimetre and sub-millimetre emission from planetary nebulae”, *Astron. & Astrophys.*, **573**, A6 (2015).

BICEP2/Keck and Planck Collaborations: “Joint Analysis of BICEP2/Keck Array and *Planck* Data”, *Phys. Rev. Letters*, **114**, 101301 (2015).

Planck Collaboration: “Planck intermediate results. XIX. An overview of the polarized thermal emission from Galactic dust”, *Astron. & Astrophys.*, **576**, A104 (2015).

Planck Collaboration: “Planck intermediate results. XX. Comparison of polarized thermal emission from Galactic dust with simulations of MHD turbulence”, *Astron. & Astrophys.*, **576**, A105 (2015).

Planck Collaboration: “Planck intermediate results. XXI. Comparison of polarized thermal emission from Galactic dust at 353 GHz with interstellar polarization in the visible”, *Astron. & Astrophys.*, **576**, A106 (2015).

Planck Collaboration: “Planck intermediate results. XXII. Frequency dependence of thermal emission from Galactic dust in intensity and polarization”, *Astron. & Astrophys.*, **576**, A107 (2015).

Planck Collaboration: “Planck intermediate results. XXIII. Galactic plane emission components derived from *Planck* with auxiliary data”, *Astron. & Astrophys.*, **580**, A13 (2015).

Planck Collaboration: “Planck intermediate results. XXIV. Constraints on variations in fundamental constants”, *Astron. & Astrophys.*, **580**, A22 (2015).

Planck Collaboration: “Planck 2013 results. XXXII. The updated *Planck* catalogue of Sunyaev-Zeldovich sources”, *Astron. & Astrophys.*, **581**, A14 (2015).

Planck Collaboration: “Planck intermediate results. XXV. The Andromeda galaxy as seen by *Planck*”, *Astron. & Astrophys.*, **582**, A28 (2015).

Planck Collaboration: “Planck intermediate results. XXVI. Optical identification and redshifts of *Planck* clusters with the RTT150 telescope”, *Astron. & Astrophys.*, **582**, A29 (2015).

Planck Collaboration: “Planck intermediate results. XXVII. High-redshift infrared galaxy overdensity candidates and lensed sources discovered by *Planck* and confirmed by *Herschel-SPIRE*”, *Astron. & Astrophys.*, **582**, A30 (2015).

Planck Collaboration: “Planck intermediate results. XXVIII. Interstellar gas and dust in the Chamaeleon clouds as seen by *Fermi* LAT and *Planck*”, *Astron. & Astrophys.*, **582**, A31 (2015).

Planck Collaboration: “Planck intermediate results. XXIX. All-sky dust modelling with *Planck*, IRAS and WISE observations”, *Astron. & Astrophys.*, **586**, A132 (2016).

Planck Collaboration: “Planck intermediate results. XXX. The angular power spectrum of polarized dust emission at intermediate and high Galactic latitudes”, *Astron. & Astrophys.*, **586**, A133 (2016).

Planck Collaboration: “Planck intermediate results. XXXI. Microwave survey of Galactic supernova remnants”, *Astron. & Astrophys.*, **586**, A134 (2016).

Planck Collaboration: “Planck intermediate results. XXXII. The relative orientation between the magnetic field and structures traced by interstellar dust”, *Astron. & Astrophys.*, **586**, A135 (2016).

Planck Collaboration: “Planck intermediate results. XXXIII. Signature of the magnetic field geometry of interstellar filaments in dust polarization maps”, *Astron. & Astrophys.*, **586**, A136 (2016).

Planck Collaboration: “Planck intermediate results. XXXIV. The magnetic field structure in the Rosette Nebula”, *Astron. & Astrophys.*, **586**, A137 (2016).

Planck Collaboration: “Planck intermediate results. XXXV. Probing the role of the magnetic field in the formation of structure in molecular clouds”, *Astron. & Astrophys.*, **586**, A138 (2016).

Planck Collaboration: “Planck intermediate results. XXXVI. Optical identification and redshifts of *Planck* SZ sources with telescopes at the Canary Islands observatories”, *Astron. & Astrophys.*, **586**, A139 (2016).

Planck Collaboration: “Planck intermediate results. XXXVII. Evidence of unbound gas from the kinetic Sunyaev-Zeldovich effect”, *Astron. & Astrophys.*, **586**, A140 (2016).

Planck Collaboration: “Planck intermediate results. XXXVIII. *E*- and *B*-modes of dust polarization from the magnetized filamentary structure of the interstellar medium”, *Astron. & Astrophys.*, **586**, A141 (2016).

Maciaszek, T., ... Lilje, P.B. et al.: “*Euclid* Near Infrared Spectrometer and Photometer instrument concept and first test results obtained for different breadboard models at the end of phase C”, *Proceedings of the SPIE*, **9904**, 99040T (2016).

Planck Collaboration: “Planck 2015 results. I. Overview of products and scientific results”, *Astron. & Astrophys.*, **594**, A1 (2016).

Planck Collaboration: “Planck 2015 results. II. Low Frequency Instrument data processing”, *Astron. & Astrophys.*, **594**, A2 (2016).

Planck Collaboration: “Planck 2015 results. III. LFI systematic uncertainties”, *Astron. & Astrophys.*, **594**, A3 (2016).

Planck Collaboration: “Planck 2015 results. IV. Low Frequency Instrument beams and window functions”, *Astron. & Astrophys.*, **594**, A4 (2016).

Planck Collaboration: “Planck 2015 results. V. LFI calibration”, *Astron. & Astrophys.*, **594**, A5 (2016).

Planck Collaboration: “Planck 2015 results. VI. LFI mapmaking”, *Astron. & Astrophys.*, **594**, A6 (2016).

Planck Collaboration: “Planck 2015 results. VII. High Frequency Instrument data processing: Time-ordered information and beams”, *Astron. & Astrophys.*, **594**, A7 (2016).

Planck Collaboration: “Planck 2015 results. VIII. High Frequency Instrument data processing: Calibration and maps”, *Astron. & Astrophys.*, **594**, A8 (2016).

Planck Collaboration.: “Planck 2015 results. IX. Diffuse component separation: CMB maps”, *Astron. & Astrophys.*, **594**, A9 (2016).

Planck Collaboration.: “Planck 2015 results. X. Diffuse component separation: Foreground maps”, *Astron. & Astrophys.*, **594**, A11 (2016)

Planck Collaboration.: “Planck 2015 results. XI. CMB power spectra, likelihoods and robustness of parameters”, *Astron. & Astrophys.*, **594**, A10 (2016).

.Planck Collaboration: “Planck 2015 results. XII. Full focal plane simulations”, *Astron. & Astrophys.*, **594**, A12 (2016).

Planck Collaboration: “Planck 2015 results. XIII. Cosmological parameters”, *Astron. & Astrophys.*, **594**, A13 (2016).

Planck Collaboration: “Planck 2015 results. XIV. Dark energy and modified gravity”, *Astron. & Astrophys.*, **594**, A14 (2016).

Planck Collaboration: “Planck 2015 results. XV. Gravitational lensing”, *Astron. & Astrophys.*, **594**, A15 (2016).

Planck Collaboration: “Planck 2015 results. XVI. Isotropy and statistics of the CMB”, *Astron. & Astrophys.*, **594**, A16 (2016).

Planck Collaboration: “Planck 2015 results. XVII. Constraints on primordial non-Gaussianity”, *Astron. & Astrophys.*, **594**, A17 (2016).

Planck Collaboration: “Planck 2015 results. XVIII. Background geometry and topology of the Universe”, *Astron. & Astrophys.*, **594**, A18 (2016).

Planck Collaboration: “Planck 2015 results. XIX. Constraints on primordial magnetic fields”, *Astron. & Astrophys.*, **594**, A19 (2016).

Planck Collaboration: “Planck 2015 results. XX. Constraints on inflation”, *Astron. & Astrophys.*, **594**, A20 (2016).

Planck Collaboration: “Planck 2015 results. XXI. The integrated Sachs-Wolfe effect”, *Astron. & Astrophys.*, **594**, A21 (2016).



Planck Collaboration: “Planck 2015 results. XXII. A map of the thermal Sunyaev-Zeldovich effect”, *Astron. & Astrophys.*, **594**, A22 (2016).

Planck Collaboration: “Planck 2015 results. XXIII. The thermal Sunyaev-Zeldovich effect-cosmic infrared background correlation”, *Astron. & Astrophys.*, **594**, A23 (2016).

Planck Collaboration: “Planck 2015 results. XXIV. Cosmology from Sunyaev-Zeldovich cluster counts”, *Astron. & Astrophys.*, **594**, A24 (2016).

Planck Collaboration: “Planck 2015 results. XXV. Diffuse low-frequency Galactic foregrounds”, *Astron. & Astrophys.*, **594**, A25 (2016).

Planck Collaboration: “Planck 2015 results. XXVI. The second *Planck* Catalogue of Compact Sources”, *Astron. & Astrophys.*, **594**, A26 (2016).

Planck Collaboration: “Planck 2015 results. XXVII. The second *Planck* Catalogue of Sunyaev-Zeldovich sources”, *Astron. & Astrophys.*, **594**, A27 (2016).

Planck Collaboration: “Planck 2015 results. XXVIII. The *Planck* Catalogue of Galactic cold clumps”, *Astron. & Astrophys.*, **594**, A28 (2016).

Planck Collaboration: “Planck intermediate results. XXXIX. The *Planck* list of high-redshift source candidates”, *Astron. & Astrophys.*, **596**, A100 (2016).

Planck Collaboration: “Planck intermediate results. XL. The Sunyaev-Zeldovich signal from the Virgo cluster”, *Astron. & Astrophys.*, **596**, A101 (2016).

Planck Collaboration: “Planck intermediate results. XLI. A map of lensing-induced *B*-modes”, *Astron. & Astrophys.*, **596**, A102 (2016).

Planck Collaboration: “Planck intermediate results. XLII. Large-scale Galactic magnetic fields”, *Astron. & Astrophys.*, **596**, A103 (2016).

Planck Collaboration: “Planck intermediate results. XLIII. Spectral energy distribution of dust in clusters of galaxies”, *Astron. & Astrophys.*, **596**, A104 (2016).

Planck Collaboration: “Planck intermediate results. XLIV. Structure of the Galactic magnetic field from dust polarization maps of the southern Galactic cap”, *Astron. & Astrophys.*, **596**, A105 (2016).

Planck Collaboration: “Planck intermediate results. XLV. Radio spectra of northern extragalactic radio sources”, *Astron. & Astrophys.*, **596**, A106 (2016).

Planck Collaboration: “Planck intermediate results. XLVI. Reduction of large-scale systematic effects in HFI polarization maps and estimation of the reionization optical depth”, *Astron. & Astrophys.*, **596**, A107 (2016).

Planck Collaboration: “Planck intermediate results. XLVII. *Planck* constraints on reionization history”, *Astron. & Astrophys.*, **596**, A108 (2016).

Planck Collaboration: “Planck intermediate results. XLVIII. Disentangling Galactic dust emission and cosmic infrared background anisotropies”, *Astron. & Astrophys.*, **596**, A109 (2016).

Planck Collaboration: “Planck intermediate results. XLIX. Parity-violation constraints from polarization data”, *Astron. & Astrophys.*, **596**, A110 (2016).

Planck Collaboration: “Planck intermediate results. L. Evidence of spatial variation of the polarized thermal dust spectral energy distribution and implications for CMB *B*-mode analysis”, *Astron. & Astrophys.*, **599**, A51 (2017).

Planck Collaboration: “Planck intermediate results. LI. Features in the cosmic microwave background temperature power spectrum and shifts in cosmological parameters”, *Astron. & Astrophys.*, **607**, A95 (2017).

Planck Collaboration: “Planck intermediate results. LII. Planet flux densities”, *Astron. & Astrophys.*, **607**, A122 (2017).

Planck Collaboration: “Planck intermediate results. LIII. Detection of velocity dispersion from the kinetic Sunyaev-Zeldovich effect”, *Astron. & Astrophys.*, **617**, A48 (2018).

Planck Collaboration: “Planck intermediate results. LIV. The *Planck* multi-frequency catalogue of non-thermal sources”, *Astron. & Astrophys.*, **619**, A94 (2018).

Euclid Collaboration: “*Euclid* preparation. III. Galaxy cluster detection in the wide photometric survey, performance and algorithm selection”, *Astron. & Astrophys.*, **627**, A23 (2019).

Euclid Collaboration: “*Euclid* preparation. IV. Impact of undetected galaxies on weak-lensing shear measurements”, *Astron. & Astrophys.*, **627**, A59 (2019).

Euclid Collaboration: “*Euclid* preparation. V. Predicted yield of redshift  $7 < z < 9$  quasars from the wide survey”, *Astron. & Astrophys.*, **631**, A85 (2019).

Euclid Collaboration: “*Euclid* preparation. VI. Verifying the performance of cosmic shear experiments”, *Astron. & Astrophys.*, **635**, A139 (2020).

Schmitz, M.A., ... Lilje, P.B. et al.: “*Euclid*: Nonparametric point spread function field recovery through interpolation on a graph Laplacian”, *Astron. & Astrophys.*, **636**, A78 (2020).

Deshpande, A.C., ... Lilje, P.B. et al.: “*Euclid*: The reduced shear approximation and magnification bias for Stage IV cosmic shear experiments”, *Astron. & Astrophys.*, **636**, A95 (2020).

Bisigello, L., ... Lilje, P.B. et al.: “*Euclid*: the selection of quiescent and star-forming galaxies using observed colours”, *Mon. Not. R. astr. Soc.*, **494**, 2337–2354 (2020).

Pires, S., ... Lilje, P.B. et al.: “*Euclid*: Reconstruction of weak-lensing mass maps for non-Gaussianity studies”, *Astron. & Astrophys.*, **638**, A141 (2020).

Planck Collaboration: “Planck 2018 results. I. Overview and the cosmological legacy of *Planck*”, *Astron. & Astrophys.*, **641**, A1 (2020).

Planck Collaboration: “Planck 2018 results. II. Low Frequency Instrument data processing”, *Astron. & Astrophys.*, **641**, A2 (2020).

Planck Collaboration: “Planck 2018 results. III. High Frequency Instrument data processing and frequency maps”, *Astron. & Astrophys.*, **641**, A3 (2020).

Planck Collaboration: “Planck 2018 results. IV. Diffuse component separation”, *Astron. & Astrophys.*, **641**, A4 (2020).

Planck Collaboration: “Planck 2018 results. V. CMB power spectra and likelihoods”, *Astron. & Astrophys.*, **641**, A5 (2020).

Planck Collaboration: “Planck 2018 results. VI. Cosmological parameters”, *Astron. & Astrophys.*, **641**, A6 (2020).

Planck Collaboration: “Planck 2018 results. VII. Isotropy and statistics of the CMB”, *Astron. & Astrophys.*, **641**, A7 (2020).

Planck Collaboration: “Planck 2018 results. VIII. Gravitational lensing”, *Astron. & Astrophys.*, **641**, A8 (2020).

Planck Collaboration: “Planck 2018 results. IX. Constraints on primordial non-Gaussianity”, *Astron. & Astrophys.*, **641**, A9 (2020).

Planck Collaboration: “Planck 2018 results. X. Constraints on inflation”, *Astron. & Astrophys.*, **641**, A10 (2020).

Planck Collaboration: “Planck 2018 results. XI. Polarized dust foregrounds”, *Astron. & Astrophys.*, **641**, A11 (2020).

Planck Collaboration: “Planck 2018 results. XII. Galactic astrophysics using polarized dust emission”, *Astron. & Astrophys.*, **641**, A12 (2020).

Euclid Collaboration: “Euclid preparation. VII. Forecast validation for Euclid cosmological probes”, *Astron. & Astrophys.*, **642**, A191 (2020).

Euclid Collaboration: “Euclid preparation. VIII. The Complete Calibration of the Colour–Redshift Relation survey: VLT/KMOS observations and data release”, *Astron. & Astrophys.*, **642**, A192 (2020).

Planck Collaboration: “Planck intermediate results. LVII. Joint Planck LFI and HFI data processing”, *Astron. & Astrophys.*, **643**, A42 (2020).

Tutusaus, I., ... Lilje, P.B. et al.: “Euclid: The importance of galaxy clustering and weak lensing cross-correlations within the photometric Euclid survey”, *Astron. & Astrophys.*, **643**, A70 (2020).

Euclid Collaboration: “Euclid preparation. X. The Euclid photometric-redshift challenge”, *Astron. & Astrophys.*, **644**, A31 (2020).

Pöntinen, M., ... Lilje, P.B. et al.: “Euclid: Identification of asteroid streaks in simulated images using StreakDet software”, *Astron. & Astrophys.*, **644**, A35 (2020).

Martinelli, M., ... Lilje, P.B. et al.: “Euclid: Forecast constraints on the cosmic distance duality relation with complementary external probes”, *Astron. & Astrophys.*, **644**, A80 (2020).

Planck Collaboration: “Planck intermediate results. LV. Reliability and thermal properties of high-frequency sources in the Second Planck Catalogue of Compact Sources”, *Astron. & Astrophys.*, **644**, A99 (2020).

Planck Collaboration: “Planck intermediate results. LVI. Detection of the CMB dipole through modulation of the thermal Sunyaev-Zeldovich effect: Eppur si muove II”, *Astron. & Astrophys.*, **644**, A100 (2020).

Euclid Collaboration: “Euclid preparation. XI. Mean redshift determination from galaxy redshift probabilities for cosmic shear tomography”, *Astron. & Astrophys.*, **647**, A117 (2021).

Martinelli, M., ... Lilje, P.B. et al.: “Euclid: Impact of non-linear and baryonic feedback prescriptions on cosmological parameter estimation from weak lensing cosmic shear”, *Astron. & Astrophys.*, **649**, A100 (2021).

Euclid Collaboration: “Euclid preparation: IX. EuclidEmulator2 – power spectrum emulation with massive neutrinos and self-consistent dark energy perturbations”, *Mon. Not. R. astr. Soc.*, **505**, 2840–2869 (2021).

## Editor of symposium proceedings

Lilje, P.B. and Maltby, P. (ed.): “Frontiers of Astrophysics, Proceedings of the Rosseland Centenary Symposium, Oslo, 16–17 June, 1994”, Institute of Theoretical Astrophysics, Oslo, ISBN 82-7121-014-9 (1995).

## In symposium proceedings etc.

Maltby, P., Barth, S.B., Lilje, P.B. and Vikanes, F.W.: “Solar Cycle Variations of Sunspot Temperatures”, in *The Hydromagnetics of the Sun*, eds. T.D. Guyenne and J.J. Hunt, ESA, 233–234 (1984).

Lilje, P.B.: “The Local Group, the Local Supercluster, and Tidal Forces”, M.Sc. thesis, University of Oslo (in Norwegian) (1985).

Lilje, P.B., Yahil, A. and Jones, B.J.T.: “A Quadrupolar Component in the Velocity Field of the Local Supercluster”, in *Galaxy Distances and Deviations from Universal Expansion*, eds. B.F. Madore and R.B. Tully, Reidel, Dordrecht, 139–142 (1986).

Lilje, P.B. and Efstathiou, G.: “The Cross-Correlation of Abell Clusters with the Lick Galaxy Counts”, in *Large Scale Structures of the Universe*, IAU Symp. 130, eds. J. Audouze, M.-C. Pelletan and A. Szalay, Kluwer, Dordrecht, 550 (1988).

Lilje, P.B. and Efstathiou, G.: “Cluster-Galaxy Cross-Correlations”, in *The Post-Recombination Universe*, eds. N. Kaiser and A. N. Lasenby, Kluwer, Dordrecht, 277–279 (1988).

Lilje, P.B.: “Large-Scale Density and Velocity Fields in the Universe”, Ph.D. thesis, University of Cambridge (1988).

Lilje, P.B. and Efstathiou, G.: “Correlation Functions in Redshift Space”, in *Large Scale Structure and Motions in the Universe*, eds. M. Mezzetti, G. Giuricin, F. Mardirossian, and M. Ramella, Kluwer, Dordrecht, 393–394 (1989).

Lilje, P.B. and Lahav, O.: “Velocity Fields Near High Peaks in a Density Field”, *B.A.A.S.*, 21, 798 (1989).

Lilje, P.B. and Lahav, O.: “Density and Velocity Fields around Clusters of Galaxies”, in *Nordic-Baltic Astronomy Meeting*, eds. C.-I. Lagerkvist, D. Kiselman and M. Lindgren, Reprocentralen HSC, Uppsala, 177–180 (1990).

Lahav, O., Lilje, P.B., Primack, J.R. and Rees, M.J.: “The Invisible Cosmological Constant”, in *Observational Tests of Cosmological Inflation*, eds. T. Shanks, E.J. Banday, R.S. Ellis, C.S. Frenk and A.W. Wolfendale, Kluwer, Dordrecht, 375–378 (1991).

Lilje, P.B. and Lahav, O.: “Cosmological Parameters from Cluster Abundances”, in *Clusters & Superclusters of Galaxies*, eds. M.M. Colless, A. Babul, A.C. Edge, R.M. Johnstone and S. Raychaudhury, Institute of Astronomy, Cambridge, 53–54 (1991).

Lilje, P.B.: “Weighing Clusters of Galaxies”, in *Gravitational Lenses*, proceedings of a mini-workshop, Oslo, January 14–15, 1993, ed. R. Stabell, Institute of Theoretical Astrophysics, Oslo, (1993).

Lilje, P.B.: “Summary of the Workshop”, in *Gravitational Lenses*, proceedings of a mini-workshop, Oslo, January 14–15, 1993, ed. R. Stabell, Institute of Theoretical Astrophysics, Oslo, (1993).

- Dahle, H., Maddox, S.J. and Lilje, P.B.: “No Arc in the Double Quasar?”, in *Clusters of Galaxies*, Proceedings of “XXIXth Rencontres de Moriond, XIVth Moriond Astrophysics Meeting”, eds. F. Durret, A. Mazure and J. Tran Thanh Van, Edition Frontieres, Gif sur-Yvette Cedex, 383–384 (1994).
- Lilje, P.B.: “Large-Scale Structures in the Universe”, in *Frontiers of Astrophysics, Proceedings of the Rosseland Centenary Symposium*, Oslo, 16–17 June, 1994, eds. P.B. Lilje and P. Maltby, Institute of Theoretical Astrophysics, Oslo, 19–30 (1995), (invited review).
- Lacy, M., Rawlings, S., Wold, M., Bunker, A., Blundell, K.M., Eales, S.A. and Lilje, P.B.: “Radio source environments at redshifts  $> 0.5$ ”, in *Extragalactic Radio Sources*, Proceedings of the 175th Symposium of the IAU, ed. R. Ekers, C. Fanti and L. Padrielli, Kluwer, Dordrecht, 321 (1996).
- Dahle, H., Lilje, P.B., Maddox, S.J. and Kaiser, N.: “Mass Estimates of a Sample of X-ray Luminous Galaxy Clusters from Weak Gravitational Lensing”, *B.A.A.S.*, 189, 82 (1996).
- Dahle, H., Kaiser, N., Lilje, P.B., Irgens, R.J., Pedersen, K. and Maddox, S.J.: “Weak gravitational lensing by X-ray luminous clusters of galaxies”, in *Astrophysics with the NOT*, ed. H. Karttunen and V. Piirola, University of Turku, Turku, 97–100 (1999).
- Wold, M., Lacy, M., Lilje, P.B. and Serjeant, S.: “Cluster environments around quasars at  $0.5 \leq z \leq 0.8$ ”, in *Clustering at high redshift*, ASP Conference Series, Vol. 200, ed. A. Mazure, O. Le Fèvre and V. Le Brun, 464–465 (2000).
- Wold, M., Lacy, M., Lilje, P.B. and Serjeant, S.: “Quasar environments at  $0.5 \leq z \leq 0.8$ ”, in *The NOT in the 2000’s*, ed. N. Bergvall, L. O. Takalo and V. Piirola, University of Turku, Turku, 35–44 (2000).
- Lilje, P.B.: “NOT – A Norwegian View”, in *The NOT in the 2000’s*, ed. N. Bergvall, L. O. Takalo and V. Piirola, University of Turku, Turku, 205–207 (2000).
- Wold, M., Lacy, M., Lilje, P. B., and Serjeant, S.: “QSO Environments at Intermediate Redshifts”, in *QSO Hosts and their Environments*, ed. I. Márquez, J. Masegosa, A. del Olmo, L. Lara, E. García and J. Molina, Kluwer Academic/Plenum Publishers, New York, 33–38 (2001).
- Eriksen, H. K., Novikov, D. I., Lilje, P. B., Banday, A. J., and Górski, K. M.: “Non-Gaussianity in the WMAP data on intermediate scales”, poster at *2<sup>nd</sup> Planck Symposium and Consortium Meeting*; 26.01.2004–30.01.2004 (2004).
- Bersanelli, M., ..., Lilje, P. B., et al.: “Planck-LFI: Instrument Design and Ground Calibration Strategy”, *Proceedings of the European Microwave Association*, 1, 189–195 (2005).
- O’Dwyer, I. J., Eriksen, H. K., Wandelt, B. D., Jewell, J. B., Larson, D. L., Górski, K. M., Banday, A. J., Lavin, S., and Lilje, P.B.: “Bayesian Power Spectrum Analysis of the First-Year WMAP data”, poster at *3<sup>rd</sup> Planck Symposium and Consortium Meeting*; 26.01.2005–28.01.2005 (2005).
- Lilje, P. B.: “EGSE for Planck LFI: The Norwegian contribution”, lecture at *3<sup>rd</sup> Planck Symposium and Consortium Meeting*; 26.01.2005 - 28.01.2005, (2005).
- Hansen, F. K., Eriksen, H. K., Banday, A. J., Górski, K. M., and Lilje, P. B.: “Cosmic Microwave Background Challenges to the Standard Model”, in *Cosmic Frontiers*, ed. N. Metcalfe and T. Shanks, ASP Conference Series, 379, 16–23 (2007).
- Laureijs, R., ..., Lilje, P. B. et al.: “*Euclid Definition Study Report*”, ESA/SRE(2011)12, arXiv:1110.3193 (2011).
- Aatrakoski, J., ..., Lilje, P. B. et al.: “*Explanatory Supplement to the Planck Early Release Compact Source Catalogue*”, ESA (2012).

