

Astrophysique / *Astrophysics*
Communications et Conférences invitées
Communications and Invited Talks

Références

- [1] P. Léna and A. Quirrenbach, editors. *Interferometry in optical astronomy*, volume 4006 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 2000.
- [2] P. Léna and O. Lai. in *Adaptive Optics in Astronomy*, chapter Astronomical results, page 371. Cambridge University Press, 1999. Roddier, F. (Ed.).
- [3] P. Léna and O. Lai. *Adaptive Optics in Astronomy*, chapter Observing with adaptive optics, page 351. Cambridge University Press, 1999. Roddier, F. (Ed.).
- [4] A.-M. Lagrange, D. Mourard, and P. Léna, editors. *High angular resolution in astrophysics*, volume 501. NATO ASIC, 1997.
- [5] H. Balsiger, M. C. E. Huber, and P. Léna, editors. *International lunar workshop : 'Towards a world strategy for the exploration and utilisation of our natural satellite'*, Beatenberg (Interlaken) Switzerland, 31 May-3 June 1994, volume 1170 of *ESA Special Publication*, 1994.
- [6] I. Appenzeller, H. J. Habing, and P. Lena, editors. *Evolution of Galaxies. Astronomical Observations*, volume 333 of *Lecture Notes in Physics*, Berlin Springer Verlag, 1989.
- [7] D. Alloin and P. Léna, editors. *Forum Optique adaptative et VLT*. Société française des spécialistes d'astronomie, Avril 1990.
- [8] D. Wilgenbus and P. Léna. Early science education and astronomy. In D. Valls-Gabaud and A. Boksenberg, editors, *IAU Symposium*, volume 260 of *IAU Symposium*, pages 629–641, June 2011.
- [9] P. Léna. The genesis of the vlti. In *Ten years of VLTI : from first fringes to Core science*. European Southern Observatory Conference, 2011. www.eso.org/sci/meetings/vltiws05/programme.html.

- [10] P. J. Léna. A Personal Insight on the Conference. In V. Coudé du Foresto, D. M. Gelino, and I. Ribas, editors, *Pathways Towards Habitable Planets*, volume 430 of *Astronomical Society of the Pacific Conference Series*, page 345, October 2010.
- [11] P. Léna. Optical interferometry in Antarctica : a future for European astronomy ? In L. Spinoglio and N. Epchtein, editors, *EAS Publications Series*, volume 40 of *EAS Publications Series*, pages 227–233, 2010.
- [12] P. Léna. Adaptive optics : a breakthrough in astronomy. In B. Brandl, R. Stuik, and J. Katgert-Merkelijn, editors, *400 years of astronomical telescopes. a review of history, science and technology*. Springer, 2010.
- [13] S. Gillessen, F. Eisenhauer, G. Perrin, W. Brandner, C. Straubmeier, K. Perriaut, A. Amorim, M. Schöller, C. Araujo-Hauck, H. Bartko, H. Baumeister, J.-P. Berger, P. Carvas, F. Cassaing, F. Chapron, E. Choquet, Y. Clenet, C. Collin, A. Eckart, P. Fedou, S. Fischer, E. Gendron, R. Genzel, P. Gitton, F. Gonte, A. Gräter, P. Haguenauer, M. Haug, X. Haubois, T. Henning, S. Hippeler, R. Hofmann, L. Jocou, S. Kellner, P. Kervella, R. Klein, N. Kudryavtseva, S. Lacour, V. Lapeyrere, W. Laun, P. Léna, R. Lenzen, J. Lima, D. Morat-schke, D. Moch, T. Moulin, V. Naranjo, U. Neumann, A. Nolot, T. Paumard, O. Pfuhl, S. Rabien, J. Ramos, J. M. Rees, R.-R. Rohloff, D. Rouan, G. Rousset, A. Sevin, M. Thiel, K. Wagner, M. Wiest, S. Yazici, and D. Ziegler. GRAVITY : a four-telescope beam combiner instrument for the VLTI. In *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 7734 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, July 2010.
- [14] F. Eisenhauer, G. Perrin, W. Brandner, C. Straubmeier, A. Böhm, H. Baumeister, F. Cassaing, Y. Clénet, K. Dodds-Eden, A. Eckart, E. Gendron, R. Genzel, S. Gillessen, A. Gräter, C. Gueriau, N. Hamaus, X. Haubois, M. Haug, T. Henning, S. Hippeler, R. Hofmann, F. Hormuth, K. Houairi, S. Kellner, P. Kervella, R. Klein, J. Kolmeder, W. Laun, P. Léna, R. Lenzen, M. Marteaud, V. Naranjo, U. Neumann, T. Paumard, S. Rabien, J. R. Ramos, J. M. Reess, R.-R. Rohloff, D. Rouan, G. Rousset, B. Ruyet, A. Sevin, M. Thiel, J. Ziegleder, and D. Ziegler. GRAVITY : Microarcsecond Astrometry and Deep Interferometric Imaging with the VLT. In A. Moorwood, editor, *Science with the VLT in the ELT Era*, page 361, 2009.
- [15] T. Paumard, G. Perrin, A. Eckart, R. Genzel, P. Léna, R. Schödel, F. Eisenhauer, T. Müller, and S. Gillessen. Scientific Prospects for VLTI in the Galactic Centre : Getting to the Schwarzschild Radius. In A. Richichi, F. Delplancke, F. Paresce, and A. Chelli, editors, *The Power of Optical/IR Interferometry : Recent Scientific Results and 2nd Generation*, page 313, 2008.
- [16] F. Eisenhauer, G. Perrin, C. Straubmeier, W. Brandner, A. Boehm, F. Cassaing, Y. Clenet, K. Dodds-Eden, A. Eckart, P. Fedou, E. Gendron, R. Genzel, S. Gillessen, A. Graeter, C. Gueriau, N. Hamaus, X. Haubois, M. Haug,

- T. Henning, S. Hippler, R. Hofmann, F. Hormuth, K. Houairi, S. Kellner, P. Kervella, R. Klein, J. Kolmeder, W. Laun, P. Lena, R. Lenzen, M. Marteaud, D. Meschke, V. Naranjo, U. Neumann, T. Paumard, M. Perger, D. Perret, S. Rabien, J. R. Ramos, J. M. Reess, R. R. Rohloff, D. Rouan, G. Rousset, B. Ruyet, M. Schropp, B. Talueau, M. Thiel, J. Ziegleder, and D. Ziegler. GRAVITY : microarcsecond astrometry and deep interferometric imaging with the VLTI. In W. J. Jin, I. Platais, and M. A. C. Perryman, editors, *IAU Symposium*, volume 248 of *IAU Symposium*, pages 100–101, July 2008.
- [17] F. Eisenhauer, G. Perrin, S. Rabien, A. Eckart, P. Léna, R. Genzel, R. Abuter, T. Paumard, and W. Brandner. GRAVITY : The AO-Assisted, Two-Object Beam-Combiner Instrument for the VLTI. In A. Richichi, F. Delplancke, F. Paresce, and A. Chelli, editors, *The Power of Optical/IR Interferometry : Recent Scientific Results and 2nd Generation*, page 431, 2008.
 - [18] P. Léna. The early days of the very large telescope interferometer. In A. Richichi, F. Delplancke, F. Paresce, and A. Chelli, editors, *The Power of Optical/IR Interferometry : Recent Scientific Results and 2nd Generation Instrumentation*. Proceedings of the ESO Workshop held in Garching, 4-8 April 2005, Springer, 2007.
 - [19] X. Haubois, F. Eisenhauer, G. Perrin, S. Rabien, A. Eckart, P. Léna, R. Genzel, R. Abuter, T. Paumard, and W. Brandner. GRAVITY : Probing Space-Time and Faint Objects in the Infrared. In V. Coudé du Foresto, D. Rouan, and G. Rousset, editors, *Visions for Infrared Astronomy, Instrumentation, Mesure, Métrologie*, pages 351–354, 2006.
 - [20] S. Gillessen, G. Perrin, W. Brandner, C. Straubmeier, F. Eisenhauer, S. Rabien, A. Eckart, P. Léna, R. Genzel, T. Paumard, and S. Hippler. GRAVITY : the adaptive-optics-assisted two-object beam combiner instrument for the VLTI. In *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 6268 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, July 2006.
 - [21] E. di Folco and P. Léna. La main à la pâte : the French endeavour to renovate science education in primary schools. In Y. Nazé, M. Stavinschi, and M. Vanherck, editors, *Astrophysics, and How to Attract Young People into Physics*, pages 16–19, November 2005.
 - [22] G. S. Perrin, O. Lai, J. M. Woillez, J. Guerin, T. Kotani, S. Vergnole, A. J. Adamson, C. Ftacclas, O. Guyon, P. J. Léna, J. Nishikawa, F. Reynaud, K. C. Roth, S. T. Ridgway, A. T. Tokunaga, and P. L. Wizinowich. 'Ohana. In W. A. Traub, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 5491 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, page 391, October 2004.
 - [23] P. Léna. Astronomie et optique : un couple heureux. *Journal de Physique*, 119 :51–56, 2004.

- [24] M. Glanc, D. Lafaille, F. Lacombe, E. Gendron, and P. Léna. High spatial resolution imagery and tomography of in vivo human retinas. In F. Combes, D. Barret, T. Contini, F. Meynadier, and L. Pagani, editors, *SF2A-2004 : Semaine de l'Astrophysique Francaise*, page 159, December 2004.
- [25] M. Glanc, E. Gendron, D. Lafaille, J.-F. Le Gargasson, and P. Léna. Towards wide-field retinal imaging with adaptive optics. *Optics Communications*, pages 225–238, 2004.
- [26] Y. Clénet, D. Rouan, F. Lacombe, D. Gratadour, E. Gendron, and P. Léna. Three years of thermal infrared observations of the Galactic Center with NACO at VLT. In F. Combes, D. Barret, T. Contini, F. Meynadier, and L. Pagani, editors, *SF2A-2004 : Semaine de l'Astrophysique Francaise*, page 145, December 2004.
- [27] G. S. Perrin, O. Lai, J. Woillez, J. Guerin, F. Reynaud, S. T. Ridgway, P. J. Léna, P. L. Wizinowich, A. T. Tokunaga, J. Nishikawa, F. J. Rigaut, A. J. Adamson, and O. Guyon. OHANA phase II : a prototype demonstrator of fiber linked interferometry between very large telescopes. In W. A. Traub, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 4838 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 1290–1295, February 2003.
- [28] P. J. Léna. Tribute to Jean-Marie Mariotti. In W. A. Traub, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 4838 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 835–845, February 2003.
- [29] O. Lai, S. T. Ridgway, P. J. Léna, G. S. Perrin, G. Fahlman, A. J. Adamson, A. T. Tokunaga, J. Nishikawa, P. L. Wizinowich, and F. J. Rigaut. OHANA Phase III : scientific operation of an 800 meter Mauna Kea interferometer. In W. A. Traub, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 4838 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 1296–1303, February 2003.
- [30] V. Coudé du Foresto, J. L. Schneider, G. S. Perrin, P. J. Léna, and A. Dutrey. Mid-infrared interferometry on the Chajnantor plateau : the ALIRA project. In W. A. Traub, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 4838 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 1028–1030, February 2003.
- [31] M. Glanc, E. Gendron, and P. Léna. Retinal imagining with adaptive optics. In F. Combes and D. Barret, editors, *SF2A-2002 : Semaine de l'Astrophysique Francaise*, page 189, June 2002.
- [32] J. Woillez, G. Perrin, O. Lai, V. Coudé du Foresto, and P. Léna. 'OHANA : an optical Hawaiian array for nanoradian astronomy. In J. Surdej, J. P. Swings,

- D. Caro, and A. Detal, editors, *Liege International Astrophysical Colloquia*, volume 36 of *Liege International Astrophysical Colloquia*, pages 139–144, 2001.
- [33] G. Perrin, O. Lai, J. Woillez, J. Guerin, P. Léna, and V. Coudé du Foresto. OHANA, the Optical Hawaiian Array for Nanoradian Astronomy. In F. Combes, D. Barret, and F. Thévenin, editors, *SF2A-2001 : Semaine de l'Astrophysique Francaise*, page 573, May 2001.
 - [34] P. Léna. The Future of Ground-Based Optical Interferometry. In G. Setti and J.-P. Swings, editors, *Quasars, AGNs and Related Research Across 2000. Conference on the occasion of L. Woltjer's 70th birthday*, page 171, 2001.
 - [35] P. Léna. Formation doctorale et insertion professionnelle. In F. Combes, D. Barret, and F. Thévenin, editors, *SF2A-2001 : Semaine de l'Astrophysique Francaise*, page 23, May 2001.
 - [36] P. Léna. An introduction to the Colloquium (From optical to millimetric interferometry). In J. Surdej, J. P. Swings, D. Caro, and A. Detal, editors, *Liege International Astrophysical Colloquia*, volume 36 of *Liege International Astrophysical Colloquia*, pages 1–2, 2001.
 - [37] J.-F. Garagasson, M. Glanc, and P. Léna. Retinal imaging with adaptive optics. *Comptes-rendus Académie des sciences IV*, pages 1131–1138, 2001.
 - [38] V. Coudé du Foresto, J. Schneider, P. Léna, and G. Perrin. Mid-infrared interferometry at the ALMA site. In J. Surdej, J. P. Swings, D. Caro, and A. Detal, editors, *Liege International Astrophysical Colloquia*, volume 36 of *Liege International Astrophysical Colloquia*, pages 233–235, 2001.
 - [39] D. Tiphène, B. Bézard, M. Bouye, J.-M. Combes, P. Drossart, T. Encrenaz, G. Epstein, Y. Hello, D. Kouach, F. Lacombe, P. J. Léna, P. Puget, P. Rabou, A. Roussel, D. Rouan, O. Saint-Pé, and A. Semery. French SWIR technology used for astronomy. In B. F. Andresen, G. F. Fulop, and M. Strojnik, editors, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 4130 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 515–526, December 2000.
 - [40] G. Perrin, O. Lai, P. J. Léna, and V. Coudé du Foresto. Fibered large interferometer on top of Mauna Kea : OHANA, the optical Hawaiian array for nanoradian astronomy. In P. Léna and A. Quirrenbach, editors, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 4006 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 708–714, July 2000.
 - [41] C. Leinert, U. Graser, L. B. Waters, G. Perrin, B. Lopez, V. Coudé du Foresto, A. W. Glazeborg-Kluttig, J. C. de Haas, T. M. Herbst, W. Jaffe, P. J. Léna, R. Lenzen, R. S. le Poole, S. Ligori, R. Mundt, J.-W. Pel, I. L. Porro, and O. von der Luehe. 10-um interferometry on the VLTI with the MIDI instrument : a preview. In P. Léna and A. Quirrenbach, editors, *Society of*

Photo-Optical Instrumentation Engineers (SPIE) Conference Series, volume 4006 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 43–53, July 2000.

- [42] M. Glanc, H. Gardette, K. Naoun, J.-F. Le Gargasson, and P. Léna. Measurements of eye's aberrations in vivo. In G.D. Love, editor, *Adaptive optics for industry and medicine*. World Scientific, 2000.
- [43] J.-M. Mariotti, V. Coudé du Foresto, G. Perrin, and P. J. Léna. Interferometric connection of large telescopes at Mauna Kea. In R. D. Reasenberg, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 3350 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 785–792, July 1998.
- [44] P. Léna. Perspectives de l'optique astronomique. *Académie des sciences Paris, Comptes Rendus Série B Sciences Physiques*, 325 :33–33, 1997.
- [45] P. Léna. An introduction to atmospheric turbulence. In A.-M. Lagrange, D. Mourard, and P. Léna, editors, *NATO ASIC Proc. 501 : High angular resolution in astrophysics*, page 3, 1997.
- [46] O. Lai, J.-P. Veran, F. J. Rigaut, D. Rouan, P. Gigan, F. Lacombe, P. J. Léna, R. Arsenault, D. A. Salmon, J. Thomas, D. Crampton, J. M. Fletcher, J. R. Stilburn, C. Boyer, and P. Jagourel. CFHT adaptive optics : first results at the telescope. In A. L. Ardeberg, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 2871 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 859–870, March 1997.
- [47] P. Léna. Astronomy with adaptive optics. In M. Cullum, editor, *European Southern Observatory Conference and Workshop Proceedings*, volume 54 of *European Southern Observatory Conference and Workshop Proceedings*, page 317, 1996.
- [48] P. Q. Zhao, V. Coudé du Foresto, J. M. Mariotti, P. Léna, and B. F. Zhou. Stellar Diameter Measurements with Fiber Optics Double Fourier Interferometry - Experimental Study. In E. Hog and P. K. Seidelmann, editors, *Astronomical and Astrophysical Objectives of Sub-Millarcsecond Optical Astrometry*, volume 166 of *IAU Symposium*, page 362, 1995.
- [49] P. Zhao, J.-M. Mariotti, V. Coudé du Foresto, P. J. Léna, and G. Perrin. Multistage fiber optic delay line for astronomical interferometry. In S. C. Barden, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 2476 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 108–119, June 1995.
- [50] P. Léna. From Planets to Galaxies : Adaptive Optics Revolution and VLT Interferometry. In J. R. Walsh and I. J. Danziger, editors, *Science with the VLT*, page 425. European Southern Observatory, 1995.

- [51] G. Rousset, J.-L. Beuzit, N. Hubin, E. Gendron, P.-Y. Madec, C. Boyer, J.-P. Gaffard, J.-C. Richard, M. Vittot, P. Gigan, and P. J. Léna. Performance and results of the COME-ON+ adaptive optics system at the ESO 3.6-m telescope. In M. A. Ealey and F. Merkle, editors, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 2201 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 1088–1098, May 1994.
- [52] G. Rousset, J. L. Beuzit, N. Hubin, E. Gendron, C. Boyer, P. Y. Madec, P. Gigan, J. C. Richard, M. Vittot, J. P. Gaffard, F. Rigaut, and P. Léna. The Come-On-Plus Adaptive Optics System : Results and Performance. In F. Merkle, editor, *European Southern Observatory Conference and Workshop Proceedings*, volume 48 of *European Southern Observatory Conference and Workshop Proceedings*, page 65, January 1994.
- [53] P. J. Léna. Astrophysical results with the COME-ON+ adaptive optics system. In M. A. Ealey and F. Merkle, editors, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 2201 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 1099–1109, May 1994.
- [54] P. Léna. Astrophysics with Adaptive Optics : Results and Challenges. In D. M. Alloin and J. M. Mariotti, editors, *NATO ASIC Proc. 423 : Adaptive Optics for Astronomy*, page 321, 1994.
- [55] N. Hubin, J.-L. Beuzit, P. Gigan, P. J. Léna, P.-Y. Madec, G. Rousset, C. Boyer, J.-P. Gaffard, J.-C. Richard, M. Vittot, F. J. Rigaut, E. Gendron, and F. Merkle. New adaptive optics prototype system for the ESO 3.6-m telescope : Come-on-Plus. In H. Zuegge, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 1780 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 850–861, April 1993.
- [56] C. Dougados, D. Rouan, and P. Léna. Measure of the Mass-Loss Velocity Structure in the Circumstellar Envelope "Frosty Leo". In L. Errico and A. A. Vittone, editors, *Stellar Jets and Bipolar Outflows*, volume 186 of *Astrophysics and Space Science Library*, page 71, 1993.
- [57] C. Dougados, S. Ridgway, P. Léna, J. Christou, and R. Probst. Sub-Arcsec Near-Infrared Imaging of the BN-IRc2 Region in Orion. In L. Errico and A. A. Vittone, editors, *Stellar Jets and Bipolar Outflows*, volume 186 of *Astrophysics and Space Science Library*, page 67, 1993.
- [58] P.-Q. Zhao, J.-M. Mariotti, P. Léna, and V. Coudé du Foresto. IR single-mode fiber optics for double Fourier interferometry. In C. Mattok, editor, *Targets for Space-Based Interferometry*, volume 354 of *ESA Special Publication*, pages 225–230, December 1992.

- [59] G. Rousset, P.-Y. Madec, J.-L. Beuzit, J.-G. Cuby, P. Gigan, P. Léna, F. Rigaut, C. Boyer, J.-P. Gaffard, J.-C. Richard, M. Vittot, E. Gendron, N. Hubin, and F. Merkle. The COME-ON-PLUS Project : An Adaptive Optics System for a 4 meter Class Telescope. In M.-H. Ulrich, editor, *European Southern Observatory Conference and Workshop Proceedings*, volume 42 of *European Southern Observatory Conference and Workshop Proceedings*, page 403, June 1992.
- [60] G. Rousset, P.-Y. Madec, J.-L. Beuzit, J.-G. Cuby, P. Gigan, P. Léna, F. Rigaut, C. Boyer, J.-P. Gaffard, J.-C. Richard, M. Vittot, E. Gendron, N. Hubin, and F. Merkle. The Come-On-Plus project. In *Adaptive Optics for Large Telescopes Topical Meeting*, pages 106–108, 1992.
- [61] F. Rigaut, P. Léna, P. Y. Madec, G. Rousset, E. Gendron, and F. Merkle. Results of the Come-On experiment. In *Adaptive Optics for Large Telescopes Topical Meeting*, pages 109–112, 1992.
- [62] F. Rigaut, P. Léna, P. Y. Madec, G. Rousset, E. Gendron, and F. Merkle. Latest Results of the COME-ON Experiment. In M.-H. Ulrich, editor, *European Southern Observatory Conference and Workshop Proceedings*, volume 42 of *European Southern Observatory Conference and Workshop Proceedings*, page 399, June 1992.
- [63] F. Rigaut, E. Gendron, P. Léna, P. Y. Madec, P. Couvee, and G. Rousset. Partial Correction with the Adaptive Optics Prototype Come-On. In J. M. Beckers and F. Merkle, editors, *European Southern Observatory Conference and Workshop Proceedings*, volume 39 of *European Southern Observatory Conference and Workshop Proceedings*, page 1105, March 1992.
- [64] F. Rigaut, M. Combes, C. Dougados, P. Léna, J.-M. Mariotti, O. Saint-Pé, D. Alloin, F. Malbet, C. Bertout, P. Gallais, and G. Gehring. Astrophysical Results with COME-ON. In M.-H. Ulrich, editor, *European Southern Observatory Conference and Workshop Proceedings*, volume 42 of *European Southern Observatory Conference and Workshop Proceedings*, page 479, 1992.
- [65] C. Dougados, P. Léna, S. R. J. Christou, and R. Probst. Subarcsecond Near Infrared Imaging of the BN-IRC2 Region in Orion / Becklin-Neugebauer. In J. M. Beckers and F. Merkle, editors, *European Southern Observatory Conference and Workshop Proceedings*, volume 39 of *European Southern Observatory Conference and Workshop Proceedings*, page 115, March 1992.
- [66] A. Claret, J. M. Mariotti, and P. Léna. Multispectral Diffraction-Limited Imaging with the Double-Fourier Method - Simulations for the VLTI. In J. M. Beckers and F. Merkle, editors, *ESO Conference on High Resolution Imaging by Interferometry II*, volume 39 of *European Southern Observatory Conference and Workshop Proceedings*, page 835, March 1992.
- [67] E. Tessier, C. Perrier, P. Léna, G. Michel, and A. Langlet. Diffraction-limited imaging of the Red Rectangle and R Aquarii in the L band. In R. Elston,

- editor, *Astronomical Society of the Pacific Conference Series*, volume 14 of *Astronomical Society of the Pacific Conference Series*, pages 145–148, 1991.
- [68] F. Merkle, G. Gehring, F. Rigaut, P. Léna, G. Rousset, J. C. Fontanella, and J. P. Gaffard. Adaptive optics system tests at the ESO 3.6-m telescope. In M. A. Ealey, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 1542 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 308–318, 1991.
 - [69] P. Léna. The Very Large European Telescope. In A. Blanchard, L. Celnikier, M. Lachieze-Rey, and J. Tran Thanh Van, editors, *Physical Cosmology*, page 379, 1991.
 - [70] E. Gendron, J. G. Cuby, F. Rigaut, P. Léna, J. C. Fontanella, G. Rousset, J. P. Gaffard, C. Boyer, J. C. Richard, and M. Vittot. The Come-On-Plus project - an upgrade of the Come-On adaptive optics prototype system. In M. A. Ealey, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 1542 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 298–307, December 1991.
 - [71] E. Gendron, J. Cuby, F. Rigaut, P. J. Léna, J. Fontanella, G. Rousset, J. Gaffard, C. Boyer, J. Richard, M. Vittot, F. Merkle, and N. Hubin. Come-On Project - an Upgrade of the Come-On Adaptive Optics Prototype System. In M. A. Ealey, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 1542 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, page 297, December 1991.
 - [72] C. Dougados, P. Léna, S. Ridgway, J. Christou, and R. Probst. Sub-arcsecond imaging of the Orion IRc2 region. In R. Elston, editor, *Astronomical Society of the Pacific Conference Series*, volume 14 of *Astronomical Society of the Pacific Conference Series*, pages 258–260, 1991.
 - [73] C. Dougados, P. Léna, S. Ridgway, J. Christou, and R. Probst. Near infrared high resolution polaro-imaging of OH 231.8+4.2. In R. Elston, editor, *Astronomical Society of the Pacific Conference Series*, volume 14 of *Astronomical Society of the Pacific Conference Series*, pages 152–154, 1991.
 - [74] G. Rousset, J.-C. Fontanella, P. Y. Kern, P. J. Léna, P. Gigan, F. J. Rigaut, J.-P. Gaffard, C. Boyer, P. Jagourel, and F. Merkle. Adaptive optics prototype system for infrared astronomy : I. System description. In J. B. Breckinridge, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 1237 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 336–344, August 1990.
 - [75] F. Merkle, P. Y. Kern, F. J. Rigaut, P. J. Léna, and G. Rousset. Adaptive optics prototype system for IR astronomy II : first observing results. In R. K. Tyson and J. Schulte In den Baeumen, editors, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 1271 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 232–241, August 1990.

- [76] P. Léna. Interferometry with large optical telescopes. In F. Sanchez and M. Vazquez, editors, *New Windows to the Universe*, page 507. International Astronomical Union, XIth European Meeting, Cambridge University Press, 1990.
- [77] F. Lacombe, M. Combes, P. Léna, F. Rigaut, D. Rouan, E. Tessier, and D. Tiphène. Advances in IR technology at Paris Observatory. In I. J. Spiro, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 1341 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 187–192, November 1990.
- [78] P. Y. Kern, P. J. Léna, P. Gigan, F. J. Rigaut, G. Rousset, J.-C. Fontanella, J.-P. Gaffard, C. Boyer, P. Jagourel, and F. Merkle. Adaptive optics prototype system for infrared astronomy, I : system description. In R. K. Tyson and J. Schulte In den Baeumen, editors, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 1271 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 243–251, August 1990.
- [79] P. Kern, F. Rigaut, P. Léna, F. Merkle, and G. Rousset. Adaptive optics prototype system for IR astronomy. II - First observing results. In J. B. Breckinridge, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 1237 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 345–355, August 1990.
- [80] P. Léna. Perspectives in Optical Interferometry. In D. M. Alloin and J.-M. Mariotti, editors, *NATO ASIC Proc. 274 : Diffraction-Limited Imaging with Very Large Telescopes*, page 341, 1989.
- [81] P. Léna. Images in astronomy : An overview. In I. Appenzeller, H. J. Habing, and P. Léna, editors, *Evolution of Galaxies : Astronomical Observations*, volume 333 of *Lecture Notes in Physics, Berlin Springer Verlag*, page 243, 1989.
- [82] P. Kern, P. Léna, G. Rousset, J. C. Fontanella, F. Merkle, J. C. de Miscault, J. P. Gaffard, and E. Hannonge. Prototype of an adaptive optical system for IR astronomy. In D. M. Alloin and J.-M. Mariotti, editors, *NATO ASIC Proc. 274 : Diffraction-Limited Imaging with Very Large Telescopes*, page 429, 1989.
- [83] P. Kern, P. Léna, P. Gigan, J.-C. Fontanella, G. Rousset, F. Merkle, and J.-P. Gaffard. Come-on : an adaptive optics prototype dedicated to infrared astronomy. In J.-P. Swings, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 1130 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 17–28, September 1989.
- [84] P. Kern, P. Léna, P. Gigan, J.-C. Fontanella, and G. Rousset. COME-ON - an adaptive optics prototype dedicated to infrared astronomy. In F. J. Roddier, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE)*

Conference Series, volume 1114 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 54–64, September 1989.

- [85] P. Léna, S. T. Ridgway, and J. M. Mariotti. Interferometric beam combination at infrared wavelengths. In F. Merkle, editor, *European Southern Observatory Conference and Workshop Proceedings*, volume 29 of *European Southern Observatory Conference and Workshop Proceedings*, pages 1039–1055, 1988.
- [86] P. Léna. The interferometric mode of the European Very Large Telescope. In F. Merkle, editor, *European Southern Observatory Conference and Workshop Proceedings*, volume 29 of *European Southern Observatory Conference and Workshop Proceedings*, pages 899–908, 1988.
- [87] P. Léna. Perspectives in Optical Interferometry. In D. M. Alloin and J.-M. Mariotti, editors, *Diffraction-Limited Imaging with Very Large Telescopes*, page 341, 1988.
- [88] P. Kern, F. Merkle, J. P. Gaffard, G. Rousset, J. C. Fontanella, and P. Léna. Prototype of an adaptive optical system for astronomical observation. In *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 860 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 9–15, 1988.
- [89] P. Kern, P. Lena, G. Rousset, J. C. Fontanella, F. Merkle, and J. P. Gaffard. Prototype of an adaptive optical system for infrared astronomy. In *Very Large Telescopes and their Instrumentation, Vol. 2*, volume 2, pages 657–665, October 1988.
- [90] P. Kern, P. Léna, G. Rousset, J. C. Fontanella, F. Merkle, and J. P. Gaffard. Prototype of an Adaptive Optical System for Infrared Astronomy. In M.-H. Ulrich, editor, *European Southern Observatory Conference and Workshop Proceedings*, volume 30 of *European Southern Observatory Conference and Workshop Proceedings*, page 657, 1988.
- [91] R. Foy, P. Bourlon, P. Léna, J. M. Mariotti, and D. Plathner. The VISIR interferometer project. In F. Merkle, editor, *European Southern Observatory Conference and Workshop Proceedings*, volume 29 of *European Southern Observatory Conference and Workshop Proceedings*, pages 781–786, 1988.
- [92] P. Bourlon and P. Léna. Vibration testing of telescopes and interferometers. In F. Merkle, editor, *European Southern Observatory Conference and Workshop Proceedings*, volume 29 of *European Southern Observatory Conference and Workshop Proceedings*, pages 787–796, 1988.
- [93] P. Léna and F. Merkle. Interferometry with the European Very Large Telescope. In J. W. Goad, editor, *Interferometric Imaging in Astronomy*, page 169, 1987.

- [94] P. Léna. Array imaging at high angular resolution (Invited). In C. G. Wynn-Williams and E. E. Becklin, editors, *Infrared astronomy with arrays*, page 455, 1987.
- [95] F. Lacombe, P. Léna, and D. Rouan. Sub-arcsec imaging of the Galactic Centre in the near infrared (Contributed). In C. G. Wynn-Williams and E. E. Becklin, editors, *Infrared astronomy with arrays*, page 316, 1987.
- [96] P. Kern, F. Merkle, J. P. Gaffard, G. Rousset, J. C. Fontanella, and P. Léna. Prototype of an adaptive optical system for astronomical observation. In J. Besson, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 860 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, page 9, January 1987.
- [97] F. Merkle and P. Léna. Spatial interferometry with the European VLT. In L. D. Barr, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 628 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 261–272, January 1986.
- [98] P. Léna. Interferometric imaging with the Very Large Telescope. In S. D’Odorico and J.-P. Swings, editors, *European Southern Observatory Conference and Workshop Proceedings*, volume 24 of *European Southern Observatory Conference and Workshop Proceedings*, pages 179–201, 1986.
- [99] P. Léna. Active optics for the far infrared submillimeter wave space telescope (FIRST) : A high angular resolution mode. In N. Longdon, editor, *ESA Special Publication*, volume 260 of *ESA Special Publication*, pages 239–242, August 1986.
- [100] P. Léna. High angular resolution in the infrared : Prospects for space observations. In N. Longdon and O. Melita, editors, *Kilometric Optical Arrays in Space*, volume 226 of *ESA Special Publication*, pages 17–21, April 1985.
- [101] P. Léna. Site requirements for infrared high resolution imaging. In A. Ardeberg and L. Woltjer, editors, *European Southern Observatory Conference and Workshop Proceedings*, volume 18 of *European Southern Observatory Conference and Workshop Proceedings*, pages 203–204, 1984.
- [102] P. Léna. Interferometry with large telescopes. In M.-H. Ulrich and K. Kjaer, editors, *IAU Colloq. 79 : Very Large Telescopes, their Instrumentation and Programs*, pages 245–255, 1984.
- [103] B. G. Anandaraao, J. Wijnbergen, and P. Léna. A scanning metallic-mesh Fabry-Perot interferometer for airborne far infrared astronomy. In A. Boksenberg and D. L. Crawford, editors, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 445 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 42–46, January 1984.

- [104] F. Sibille and P. Léna. Two-dimensional imaging in infrared astronomy. In J. Besson, editor, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 395 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, pages 110–113, January 1983.
- [105] P. Léna. High angular resolution in the infrared with a single Very Large Telescope (VLT). In J.-P. Swings and K. Kjaer, editors, *Workshop on ESO's Very Large Telescope*, volume 17 of *Conference and Workshop Proceedings*, pages 163–169. Workshop at Cargese, 16-19 Mai, European Southern Observatory, May 1983.
- [106] P. Lena. Aperture Synthesis in the Infrared - Prospects for a Very Large Telescope. In J.-P. Swings and K. Kjaer, editors, *European Southern Observatory Conference and Workshop Proceedings*, volume 17 of *European Southern Observatory Conference and Workshop Proceedings*, page 129, May 1983.
- [107] F. Sibille, A. Chelli, P. Léna, and D. Stefanovitch. Two-dimensional infrared speckle interferometry with a 32 X 32 InSb charge-injection device (CID) array. In *Instrumentation in Astronomy IV*, volume 331 of *SPIE Conference Series*, pages 26–28. Society of Photo-Optical Instrumentation Engineers, October 1982.
- [108] P. Léna. The ESO Scientific and Technical Committee. *The Messenger*, 27 :1–2, March 1982.
- [109] P. Léna. Astroplane - The Airbus proposal. In A. F. M. Moorwood and K. Kjaer, editors, *Second ESO Infrared Workshop*, pages 307–314. European Southern Observatory, 1982.
- [110] P. Léna. Astroplane - a Working Group of the European Science Foundation. In A. F. M. Moorwood and K. Kjaer, editors, *Second ESO Infrared Workshop*, page 315. European Southern Observatory, 1982.
- [111] P. Léna. Aperture synthesis in the infrared. In A. F. M. Moorwood and K. Kjaer, editors, *Second Infrared Workshop*, pages 259–268. European Southern Observatory, 1982.
- [112] P. Léna. Speckle interferometry in the infrared. In M. H. Ulrich and K. Kjaer, editors, *Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths*, pages 123–138. European Southern Observatory, 1981.
- [113] P. Léna. Les sources infrarouges compactes. In Y. Viala, editor, *Rôle des Nuages Moléculaires Dans la Formation des Étoiles*, Ecole de Goutelas 5-9 Mai 1980. Société française des spécialistes d'astronomie, 1981.
- [114] D. Rouan, F. Viallefond, S. Drapatz, P. Léna, and J. L. Puget. Flugzeugbeobachtungen von Galaxien im fernen IR-Bereich. *Mitteilungen der Astronomischen Gesellschaft Hamburg*, 50 :13, 1980.

- [115] P. Léna, F. Sibille, and A. Chelli. Diffraction Limited Information on Large Telescopes with Infrared Speckle Interferometry. In A. Hewitt, editor, *Optical and Infrared Telescopes for the 1990's*, page 840. European Southern Observatory, 1980.
- [116] P. Léna. The high spatial resolution of interferometry in the near infrared. *NASA STI/Recon Technical Report*, 80 :15005, 1979.
- [117] P. Léna. Astrophysics and space projects of the 1980s. In *Spacelab : Utilization and Experimental Design*, Course on Space Technology, May 22-June 2, pages 483–492. Centre national d'études spatiales, 1979.
- [118] P. Léna and D. Rouan. Space Research with Airborne Platforms. In T. Halvorsen and B. Battrick, editors, *European Sounding Rocket, Balloon and Related Research, with Emphasis on Experiments at High Latitudes*, volume 135 of *ESA Special Publication*, page 461. European Space Agency, June 1978.
- [119] P. Léna. Observational techniques in infrared astronomy. In G. Setti and G. G. Fazio, editors, *Infrared Astronomy*, NATO/ASIC Proc.38, pages 231–269. Springer, 1978.
- [120] P. Léna. L'astrophysique et les projets spatiaux des années 1980. In *Spacelab. Utilisation et Conception d'Expériences (Use and Experiment Concept)*, pages 483–492. European Space Agency, 1978.
- [121] D. Rouan, P. Léna, J. L. Puget, K. de Boer, and J. Wijnbergen. Far Infrared Observations of Molecular Cloud S140 and the Galactic Plane. In P. Dyal, editor, *Recent Results in Infrared Astrophysics*, page 49. Symposium, Moffett Field, NASA Ames Research Center, January 1977.
- [122] P. J. Léna. Infrared Observations of the Sun. In G. G. Fazio, editor, *Infrared and submillimeter astronomy*, volume 63 of *Astrophysics and Space Science Library*, page 97. Reidel, 1977.
- [123] P. Turon, D. Rouan, P. Léna, J. Wijnbergen, and J. W. Aalders. An airborne infrared astronomy program : system description and preliminary results. In M. Rowan-Robinson, editor, *Far Infrared Astronomy*, Proc. of a Conference, Cumberland Lodge, Windsor, U.K. on July 11th-13th, 1975, pages 201–205, Oxford, 1976. Royal Society, Pergamon Press.
- [124] P. J. Léna. Infrared observations of the sun. In N. Z. Scoville and J. Kwan, editors, *Infrared and submillimeter astronomy*. XIX Plenary COSPAR Meeting, Philadelphia, June 8-9, Reidel, June 1976.
- [125] P. Léna, Y. Viala, D. Hall, and A. Soufflot. The Thermal Emission of the Dust Corona during the Eclipse of June 30, 1973. In H. Elsaesser and H. Fechtig, editors, *Interplanetary Dust and Zodiacal Light*, volume 48 of *Lecture Notes in Physics*, page 67. Springer Verlag, 1976.

- [126] P. Léna, D. Hall, A. Soufflot, and Y. Viala. The solar corona as observed during the 30 June 1973 solar eclipse on board Concorde 001. In M. J. Rycroft, editor, *Proc. XVII COSPAR Meeting, Sao Paulo*, Space Research XV, pages 579–583. Springer Verlag, 1975.
- [127] P. Léna. 80 minutes de totalité. *Bull. Assoc. Dév. Internat. Obs. Nice*, 10 :13–16, 1973.
- [128] P. J. Turon and P. J. Léna. High resolution solar infrared observations. In S. A. Bowhill, L. D. Jaffe, and M. J. Rycroft, editors, *Space Research Conference*, pages 1695–1700, 1972.
- [129] P. Léna, N. Coron, C. Darpentigny, K. Hammal, and G. Vanhabost. A 32-cm Airborne Infrared Observatory. In V. Manno and J. Ring, editors, *Infrared Detection Techniques for Space Research*, volume 30 of *Astrophysics and Space Science Library*, page 32. Proceedings of the 5th ESLAB/ESRIN Symposium, held in Noordwijk, June 8-11, 1971,, Reidel, 1972.
- [130] P. Léna. Recent progress in infrared and microwave techniques of astronomical interest. In *Les Spectres des Astres dans l'Infrarouge et les Micro-ondes*, XVIIe colloque international d'astrophysique, pages 61–81. Institut d'astrophysique de Liège, 1972.
- [131] P. Léna. Infrared Detectors. Survey of the Present State of the Art. In V. Manno and J. Ring, editors, *Infrared Detection Techniques for Space Research*, volume 30 of *Astrophysics and Space Science Library*, page 103. Proceedings of the 5th ESLAB/ESRIN Symposium, held in Noordwijk, June 8-11, 1971,, Reidel, 1972.
- [132] J. A. Eddy, P. J. Léna, and R. M. MacQueen. The Temperature Minimum from Far-Infrared Measurements. *Bulletin of the American Astronomical Society*, 1 :275, June 1969.
- [133] J. A. Eddy, P. J. Léna, and R. M. MacQueen. Solar Brightness Temperature and Spectra : 80-400 Microns Wavelength. In *Bulletin of the American Astronomical Society*, volume 1 of *Bulletin of the American Astronomical Society*, page 187, March 1969.
- [134] P. J. Léna, W. C. Livingston, and C. D. Slaughter. Wavelength Dependence of Solar Granulation- A Preliminary Report. *The Astronomical Journal Supplement*, 73 :66, 1968.