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Date and Place of Birth

August 20, 1948; Hanoi, Vietnam

Education

Bachelor of Sciences in Physics (with Honors), California Institute of Technology ,
June 1970
Ph.D. in Astrophysics, Princeton University, May 1974;
Thesis Advisor: Lyman Spitzer, Jr.

Professional Membership

American Astronomical Society; International Astronomical Union

Academic Experience

1990-present: Professor of Astronomy, University of Virginia
1982-1990: Associate Professor of Astronomy, University of Virginia
1976-82: Assistant Professor of Astronomy, University of Virginia
1975-76: Research Fellow in Astrophysics at California Institute of Technology and
Hale Observatories

Visiting Positions

Visiting Professor, Centre d'Etudes de Saclay, France, January-June 2006
Visiting Professor, Institut d'Astrophysique de Paris, September - December 2005
Visiting Professor, University of Paris VII, France, February - April 2000
CNRS Visiting Professor, Institut d'Astrophysique de Paris, October - December 1999
CNRS Visiting Professor at Observatoire de Paris-Meudon, July - September 1999
CNRS Visiting Professor at Observatoire de Paris-Meudon, June - August 1998
Visiting Professor, University of Paris VII, France, October 1993 to January 1994; August
1995; July 1997
Visiting Astronomer, Observatoire de Meudon, France, June 1989; June 1993 to
January 1994; August 1995
Visiting Professor, Centre d'Etudes de Saclay, France, September
1981 - August 1982, February 1994 - August 1994, summers 1983-1996
Visiting Fellow at Institut d'Astrophysique, Paris, France - July-December 1978,
summers 1979-80

Visiting Fellow, Niels Bohr Institute, Copenhagen, Denmark, summer 1977
Visiting Fellow, Institute of Astronomy, Cambridge, England - summers 1974-1977

Advisory Committees

- Vice-President of the Advisory Board, Université Interdisciplinaire de Paris, 1995-
- UNESCO Council on the Future, 1999-
- Board of Advisors, John Templeton Foundation, 2002–2004, 2008–2010
- Executive committee, International Society for Science and Religion, 2003–2007

Awards

- Fulbright Scholar, September 1987 - August 1988 (Institut d’Astrophysique, Paris, France and Service d’Astrophysique, Centre d’Etudes Nucleaires de Saclay, France)
- Henri Chrétien award, American Astronomical Society, 1992
- Asia Literary Prize from the French Language Writers Association for the book ‘L’infini dans la paume de la main’ (Nil-Fayard) (The Infinite in the palm of the hand) (2000)
- ”Glory of Vietnam” award from VietnamNet newspaper, 1 of 19 awards to honor outstanding Vietnamese-born persons living abroad (2004)
- Grand Prize Moron 2007 from the French Academy (Academie Francaise) for my book ”The Ways of light: Physics and Metaphysics of light and darkness” (Fayard, Paris, 2007). The prize is awarded to ”an author writing in French for a work that favors a new ethics”.

PUBLICATIONS

I. Publications in Refereed Journals

- 1) Random Gravitational Encounters and the Evolution of Spherical Systems: IV. Isolated Systems of Identical Stars (L. Spitzer, Jr. and T. X. Thuan), *Ap. J.*, 175, 31-61 (1972).
- 2) Velocity Dispersions in Galaxies: III. The Nucleus of M31 (D. C. Morton and T. X. Thuan), *Ap. J.*, 180, 705-714 (1973).
- 3) On the Numbers, Birth Rates and Final States of Moderate and High Mass Stars (J. P. Ostriker, D. O. Richstone, and T. X. Thuan), *Ap. J. (Letters)*, 188, L87-89 (1974).
- 4) Gravitational Radiation from Stellar Collapse (T. X. Thuan and J. P. Ostriker), *Ap. J. (Letters)*, 191, L105-107 (1974).
- 5) The Interpretation of the Interferometric Maps of H₂O Masers Near HII Regions (J. Kwan and T. X. Thuan), *Ap. J.*, 194, 293-300 (1974).
- 6) On the Ionization of the Intercloud Medium by Runaway O-B Stars, *Ap. J.*, 198, 307-329 (1975).
- 7) Further Observations of BL Lacertae (T. X. Thuan, J. B. Oke and J. E. Gunn), *Ap. J.*, 201, 45-49 (1975).
- 8) Why Elliptical Galaxies are no Flatter than E7 (T. X. Thuan and J. R. Gott), *Nature*, 257, 774-776 (1975).
- 9) Galactic Evolution: I. Single Zone Models (T. X. Thuan, M. H. Hart and J. P. Ostriker), *Ap. J.*, 201, 756-772 (1975).
- 10) Galactic Evolution: II. Disc Galaxies with Massive Halos (J. P. Ostriker and T. X. Thuan), *Ap. J.*, 202, 353-364 (1975).
- 11) On the Formation of Spiral and Elliptical Galaxies (J. R. Gott and T. X. Thuan), *Ap. J.*, 204, 649-667 (1976).
- 12) Color Gradients in the Nuclear Region of M31 (T. X. Thuan and J. B. Oke), *Ap. J.*, 205, 360-362 (1976).
- 13) A New Four-Color Intermediate-Band Photometric System (T. X. Thuan and J. E. Gunn), *P. A. S. P.*, 88, 543-547 (1976).
- 14) A Photometric Study of the SO Galaxy NGC 3115 (K. M. Strom, S. E. Strom, E. B. Jensen, J. Moller, L. A. Thompson and T. X. Thuan), *Ap. J.*, 212, 335-346 (1977).
- 15) Young Massive Galactic Halos at Large Redshifts (M. Kaufman and T. X. Thuan), *Ap. J.*, 215, 11-19 (1977).
- 16) The Angular Momentum of Galaxies (T. X. Thuan and J. R. Gott), *Ap. J.*, 216, 194-205 (1977).

- 17) Isolated Galaxies (J. P. Huchra and T. X. Thuan), *Ap. J.*, 216, 694-697 (1977).
- 18) Photographic Measurements of the Diffuse Light in the Coma Cluster (T. X. Thuan and J. Kormendy), *P.A.S.P.*, 89, 466-473 (1977).
- 19) Angular Momentum in the Local Group (J. R. Gott and T. X. Thuan), *Ap. J.*, 233, 426-436 (1978).
- 20) Star Formation in IIZw70 (R. W. O'Connell, T. X. Thuan and S. J. Goldstein), *Ap. J. (Letters)*, 226, L11-15 (1978).
- 21) The Emission-Line Spectrum of 3C48 (T. X. Thuan, J. B. Oke and J. Bergeron) *Ap. J.*, 230, 340-347 (1979).
- 22) A HI Survey of Nilson Dwarf Galaxies. I. Observations (T. X. Thuan and P. O. Seitzer), *Ap. J.*, 231, 327-353 (1979).
- 23) A HI Survey of Nilson Dwarf Galaxies. II. Statistical Properties (T. X. Thuan and P. O. Seitzer), *Ap. J.*, 231, 680-687 (1979).
- 24) A New Dwarf Galaxy in the Local Group (T. X. Thuan and G. E. Martin), *Ap. J. (Letters)*, 232, L11-16 (1979).
- 25) The Photometric Properties of Brightest Cluster Galaxies. I. Absolute Magnitudes in 116 Nearby Abell Clusters (J. G. Hoessel, J. E. Gunn and T. X. Thuan), *Ap. J.*, 241, 486-492 (1980).
- 26) Blue Compact Dwarf Galaxies. I. Neutral Hydrogen Observations of 115 Galaxies (T. X. Thuan and G. E. Martin), *Ap. J.*, 247, 823-848 (1981).
- 27) The Structure of Giant Elliptical Galaxies in Poor Clusters of Galaxies (T. X. Thuan and W. Romanishin), *Ap. J.*, 248, 439-459 (1981).
- 28) Neutral Hydrogen Emission and Absorption in Three Active Irr II Galaxies (T. X. Thuan and E. J. Wadiak), *Ap. J.*, 252, 125-132 (1982).
- 29) Stellar Populations in the Edge-On Spiral Galaxy NGC 4565: I. Surface Brightness and Color Distributions (E. B. Jensen and T. X. Thuan), *Ap. J. Suppl.*, 50, 421-450 (1982).
- 30) Blue Compact Dwarf Galaxies: II. Near-Infrared Studies and Stellar Populations (T. X. Thuan), *Ap. J.*, 268, 677-682 (1983).
- 31) A Multifrequency Study of Star Formation in the Blue Compact Dwarf Galaxy I Zw 36 (F. Viallefond and T. X. Thuan), *Ap. J.*, 269, 444-465 (1983).
- 32) The QSO 1156 + 295 = A Multifrequency Study of Recent Activity (B. J. Wills, et al.), *Ap. J.*, 274, 62-85 (1983).
- 33) Einstein X-Ray Observations of Optical-Radio Selected Areas (P. Katgert, T. X. Thuan and R. A. Windhorst), *Ap. J.*, 275, 1-7 (1983).
- 34) Ultraviolet Observations of Starburst and Mini-Seyfert Nuclei (T. X. Thuan), *Ap. J.*,

281, 126-134 (1984).

35) Near-Infrared Photometry of mJy Radio Galaxies in Selected Areas (T. X. Thuan, R. A. Windhorst, J. J. Puschell, R. B. Isaacman and F. N. Owen), *Ap. J.*, 285, 515-526 (1984).

36) Radio Continuum Observations of Blue Compact Dwarf Galaxies (U. Klein, R. Wielebinski and T. X. Thuan), *Astr. Ap.*, 141, 241-247 (1984).

37) Thermodynamics and Galaxy Clustering: The Distribution of Moderately Distant Galaxies (A. J. S. Hamilton, W. C. Saslaw and T. X. Thuan), *Ap. J.*, 297, 37-48 (1985).

38) Near-Infrared Photometry and Stellar Populations in Dwarf Elliptical and Irregular Galaxies (T. X. Thuan), *Ap. J.*, 299, 881-895 (1985).

39) IC 3475: A Stripped Dwarf Galaxy in the Virgo Cluster (L. Vigroux, T. X. Thuan, J. P. Vader and M. Lachieze-Rey), *A. J.*, 91, 70-75 (1986).

40) The Strong UV Source in the Active E Galaxy NGC 4552 (R. W. O'Connell, T. X. Thuan and J. J. Puschell), *Ap. J. (Letters)*, 303, L37-L40 (1986).

41) Surface Brightness and Color Distributions in Blue Compact Dwarf Galaxies. I. Haro 2 (H. H. Loose and T. X. Thuan), *Ap. J.*, 309, 59-69 (1986).

42) The Spatial Distribution of Dwarf Galaxies in the CFA Slice of the Universe (T. X. Thuan, J. R. Gott and S. E. Schneider), *Ap. J. (Letters)*, 315, L93-L97 (1987).

43) Spectral Synthesis in the Ultraviolet. I. Stellar Library (M. N. Fanelli, R. W. O'Connell, and T. X. Thuan), *Ap. J.*, 321, 768-779 (1987).

44) Near-Infrared Observations of Sub-mJy Radio Sources: Evidence for a Population of Starburst Galaxies at Intermediate Redshifts (T. X. Thuan and J. J. Condon), *Ap. J. (Letters)*, 322, L9-L13 (1987).

45) Spectral Synthesis in the Ultraviolet. II. Stellar Populations and Star Formation in Blue Compact Galaxies (M. N. Fanelli, R. W. O'Connell and T. X. Thuan), *Ap. J.*, 334, 665-687 (1988).

46) Topology of Large Scale Structure in the Universe: Observations (J. R. Gott, J. Miller, T. X. Thuan, S. E. Schneider, D. H. Weinberg, C. Gammie, K. Polk, M. Vogeley, S. Jeffrey, S. P. Bhavsar, A. L. Melott, R. Giovanelli, M. P. Haynes, R. B. Tully and A. J. S. Hamilton), *Ap. J.*, 340, 625-646 (1989).

47) Near-Infrared Photometry and Stellar Populations of First-Ranked Galaxies in a Complete Sample of Nearby Abell Clusters, (T. X. Thuan and J. J. Puschell), *Ap. J.*, 346, 34-58 (1989).

48) Northern Dwarf and Low-Surface-Brightness Galaxies: I. The Arecibo Neutral Hydrogen Survey (S. E. Schneider, T. X. Thuan, C. Magri and E. J. Wadiak), *Ap. J. Suppl.*, 72, 245-289 (1990).

49) The Effects of Stellar Age and Metallicity on the Infrared Emission in the Magellanic

Clouds (M. Sauvage, T. X. Thuan and L. Vigroux), *Astr. Ap.*, 237, 296-318 (1990).

50) Northern Dwarf and Low-Surface-Brightness Galaxies: IV. The Large-Scale Space Distribution (T. X. Thuan, J. M. Alimi, J. R. Gott and S. E. Schneider), *Ap. J.*, 370, 25-48 (1991).

51) Compact Starbursts in Ultraluminous Infrared Galaxies (J. J. Condon, Z. P. Huang, Q. F. Yin and T. X. Thuan), *Ap. J.*, 378, 65-76 (1991).

52) The Far-Infrared Properties of the CfA Galaxy Sample. I. The Catalog (T. X. Thuan and M. Sauvage), *Astr. Ap. Suppl.*, 92, 749-839 (1992).

53) Northern Dwarf and Low-Surface-Brightness Galaxies. II. The Green Bank Survey (S. E. Schneider, T. X. Thuan, J. G. Mangum and J. Miller), *Ap. J. Suppl.*, 81, 5-33 (1992).

54) On the Use of L(FIR) as a Star Formation Indicator in Galaxies (M. Sauvage and T. X. Thuan), *Ap. J. (Letters)*, 396, 69-73 (1992).

55) Blue Galaxies Identified with Submillijansky Radio Sources in the 1300 + 3034 Field (T. X. Thuan, R. J. Patterson, J. J. Condon and K. J. Mitchell), *A. J.*, 104, 1331-1338 (1992).

56) UGC 7636 and NGC 4472: Tidal Interaction Between a Stripped Dwarf Irregular and a Giant Elliptical Galaxy (R. J. Patterson and T. X. Thuan), *Ap. J. (Letters)*, 400, 55-58 (1992).

57) Compact radio sources in the starburst galaxy M82 and the Sigma-D relation for supernova remnants (Z. P. Huang, T. X. Thuan, R. A. Chevalier, J. J. Condon and Q. F. Yin), *Ap. J.*, 424, 114-125 (1994).

58) The Far-Infrared Properties of the CfA Galaxy Sample. II. Gas, Dust and Star Formation Along the Hubble Sequence (M. Sauvage and T. X. Thuan), *Ap. J.*, 429, 153-171 (1994).

59) The Primordial Helium Abundance from a New Sample of Metal-Deficient Blue Compact Galaxies (Yu. I. Izotov, T. X. Thuan and V. A. Lipovetsky), *Ap. J.*, 435, 647-667 (1994).

60) Hot Gas Outflow in the Blue Compact Dwarf Galaxy VII Zw403 (P. Papaderos, K. J. Fricke, T. X. Thuan, and H. H. Loose), *Astr. Ap. Letters*, 291, L13-16 (1994).

61) The Spatial Distribution of Blue Compact Galaxies in the Second Byurakan Survey (S. A. Pustilnik, A. V. Ugryumov, V. A. Lipovestky, T. X. Thuan and N. G. Guseva), *Ap. J.*, 443, 499-513 (1995).

62) Heavy Element Abundances in a New Sample of Metal-Deficient Blue Compact Galaxies (T. X. Thuan, Yu. I. Izotov, and V. A. Lipovetsky), *Ap. J.*, 445, 108-123 (1995).

63) H & K spectroscopy of luminous infrared galaxies (A. Lancon, B. Rocca-Volmerange, and T. X. Thuan), *Astr. Ap. Suppl.*, 115, 253-265 (1996).

64) HST observations of the unusual blue compact dwarf galaxy Markarian 996 (T. X. Thuan, Yu. I. Izotov, and V. A. Lipovetsky), *Ap. J.*, 463, 120-133 (1996).

- 65) CCD and HI observations of LSB dwarf galaxies in the general field (V. E. Karachentseva, Ph. Prugniel, J. Vennik, G. M. Richter, T. X. Thuan and J. -M Martin), *Astr. Ap. Suppl.*, 117, 343-368 (1996).
- 66) Northern dwarf and low-surface-brightness galaxies. V. The scaling analysis (R. Dominguez-Tenreiro, J.-M Alimi, A. Serna and T. X. Thuan), *Ap. J.*, 469, 53-65 (1996).
- 67) Optical structure and star formation in blue compact dwarf galaxies. I. Observations and profile decomposition (P. Papaderos, H.-H. Loose, T. X. Thuan and K. J. Fricke), *Astr. Ap. Suppl.*, 120, 207-228 (1996).
- 68) Optical structure and star formation in blue compact dwarf galaxies. II. Relations between photometric components and evolutionary implications (P. Papaderos, H.-H. Loose, K. J. Fricke and T. X. Thuan), *Astr. Ap.*, 314, 59-72 (1996).
- 69) Surface photometry of low-surface-brightness dwarf irregular galaxies (R. J. Patterson and T. X. Thuan), *Ap. J. Suppl.*, 107, 103-141 (1996). Erratum, *ApJS*, 117, 633-634, (1998)
- 70) The primordial helium abundance: systematic effects and a new determination (Yu. I. Izotov, T. X. Thuan and V. A. Lipovetsky), *Ap. J. Suppl.*, 108, 1-39 (1997).
- 71) HST Observations of the Blue Compact Dwarf SBS 0335-052: a Probable Young Galaxy (T. X. Thuan, Yu. I. Izotov and V. A. Lipovetsky), *Ap. J.*, 477, 661-672 (1997).
- 72) Discovery of a second optical component in the HI cloud of the young dwarf galaxy SBS0335-052: new data with the 6-m telescope (S. A. Pustilnik, V. A. Lipovetsky, Yu. I. Izotov, E. Brinks, T. X. Thuan, A. Yu. Kniazev, S. I. Neizvestny and A. V. Ugryumov), *Astronomy Letters*, 23, 308-311 (1997).
- 73) 10 Microns and HI Observations of the Blue Compact Dwarf Galaxy He 2-10 (M. Sauvage, T. X. Thuan & P. O. Lagage), *Astr. Ap.*, 325, 98-108 (1997).
- 74) IZw18: A New Wolf-Rayet Galaxy (Yu. I. Izotov, C. B. Foltz, R. F. Green, N. G. Guseva & T. X. Thuan), *Ap.J. (Letters)*, 487, 37-40 (1997).
- 75) Nearby Young Dwarf Galaxies: Primordial Gas and Lyman-alpha Emission (T. X. Thuan & Yu. I. Izotov), *Ap.J.*, 489, 623-635 (1997).
- 76) Reexamining the Helium Abundance of IZw18 (Yu. I. Izotov & T. X. Thuan), *Ap.J.*, 497, 227-237 (1998).
- 77) The Primordial Abundance of ^4He Revisited (Yu. I. Izotov & T. X. Thuan), *Ap.J.*, 500, 188-216 (1998)
- 78) The primordial Helium-4 abundance from observations of a large sample of blue compact dwarf galaxies (T. X. Thuan & Izotov, Yu. I.), *Space science Reviews*, 84, 83-94 (1998)
- 79) Molecular Gas in Mrk 109: Constraining the O_2/CO ratio in Chemically Young Galaxies (D. T. Frayer, E. R. Seaquist, T. X. Thuan & A. Sievers), *Ap.J.*, 503, 231-238 (1998)
- 80) On the Age of the Nearby Dwarf Galaxy SBS 0335-052 (P. Papaderos, Y. I. Izotov, K.

J. Fricke, T.X. Thuan & N. G. Guseva), *Astr. Ap.*, 338, 43-55 (1998)

81) The ROSAT/IRAS Galaxy Sample Revisited (J. J. Condon, Q. F. Yin, T. X. Thuan & Th. Boller), *A.J.*, 116, 2682-2716 (1998)

82) Heavy element abundances in Blue Compact Galaxies (Y.I. Izotov & T.X. Thuan), *Ap.J.*, 511, 639-659 (1999)

83) Deep Survey at 7 microns with the ISO Satellite (H. Flores, F. Hammer, F. X. Desert, C. Cesarsky, T. X. Thuan, D. Crampton, S. Eales, O. Le Fevre, S. Lilly, A. Omont & D. Elbaz), *Astr. Ap.*, 343, 389-398 (1999)

84) HI-rich dwarf galaxies in the Hydra cluster (P.-A. Duc, P. Papaderos, C. Balkowski, V. Cayatte, T.X. Thuan & W. van Driel), *Astr. Ap. Suppl.*, 136, 539-569 (1999)

85) Dust in an extremely metal-poor galaxy: mid-infrared observations of SBS 0335-052 (T.X. Thuan, M. Sauvage & S. Madden), *Ap.J.*, 516, 783-787 (1999)

86) 15 microns ISO observations of the 1415+51 CFRS Field : the cosmic star formation rate as derived from deep UV, optical, mid-IR and radio photometry (H. Flores, F. Hammer, T. X. Thuan, C. Cesarsky, F. X. Desert, A. Omont, S. J. Lilly, S. Eales, D.Crampton & O. Le Fevre, *Ap.J.*, 517, 148-167 (1999)

87) HI observations of blue compact galaxies from the First and Second Byurakan Surveys (T.X. Thuan, V.A. Lipovetsky, J.-M. Martin & S.A. Pustilnik), *Astr. Ap. Suppl.*, 139, 1-24 (1999)

88) The young age of the extremely metal-deficient blue compact dwarf galaxy SBS 1415+437 (T.X. Thuan, Y.I. Izotov & C.B. Foltz), *Ap.J.*, 525, 105-126 (1999)

89) Optical studies of the blue compact dwarf galaxy Tol 65 with the VLT (P. Papaderos, K.J. Fricke, T.X. Thuan & Y.I. Izotov), *Astr. Ap.*, 352, L57-L62 (1999)

90) Helium abundance in the most metal-deficient Blue Compact Galaxies: I Zw 18 and SBS 0335-052 (Y.I. Izotov, F.H. Chaffee, C.B. Foltz, R.F. Green, N.G. Guseva & T.X. Thuan), *Ap.J.*, 527, 757-777 (1999)

91) A spectroscopic study of a large sample of Wolf-Rayet galaxies (N.G. Guseva, Y.I. Izotov & T.X. Thuan), *Ap.J.*, 531, 776-803 (2000)

92) The KPNO International Spectroscopic Survey. I. Description of the survey (J.J. Salzer, C. Gronwall, V.A. Lipovetsky, A. Kniazev, J.W. Moody, T.A. Boroson, T.X. Thuan, Y.I. Izotov, J. Herrero & L. Frattare), *A.J.*, 120, 80-94 (2000)

93) Chemical enrichment by massive stars (Y.I. Izotov & Thuan, T.X.), *New Astr. Reviews*, 44, 329-334 (2000)

94) The cometary blue compact dwarf galaxies Mrk 59 and Mrk 71: a clue to dwarf galaxy evolution ? (K. Noeske, N.G. Guseva, K.J. Fricke, Y.I. Izotov, P. Papaderos & T.X. Thuan), *Astr. Ap.*, 361, 33-52 (2000)

95) RBSC-NVSS sample. I. Radio and optical identifications of a complete sample of 1556 bright X-ray sources (F. Bauer, J.J. Condon, T.X. Thuan & J.J. Broderick), *Ap.J. Suppl.*, 129, 547-562 (2000)

96) Massive star populations and the IMF in metal-rich starbursts (D. Schaerer, N.G. Guseva, Y.I. Izotov & T.X. Thuan), *Astr. Ap.*, 362, 53-68 (2000)

97) The near-infrared view of SBS 0335–052 (L. Vanzi, L. Hunt, T.X. Thuan & Y.I. Izotov), *Astr. Ap.*, 363, 493-506 (2000)

98) The KPNO International Spectroscopic Survey. II. $H\alpha$ -selected Survey list 1 (J.J. Salzer, C. Gronwall, V.A. Lipovetsky, A. Kniazev, J.W. Moody, T.A. Boroson, T.X. Thuan, Y.I. Izotov, J. Herrero & L. Frattare), *A.J.*, 121, 66-79 (2001)

99) An imaging and spectroscopic study of the very metal-deficient blue compact dwarf galaxy Tol 1214–277 (K.J. Fricke, Y.I. Izotov, P. Papaderos, N.G. Guseva & T.X. Thuan), *A.J.*, 121, 169-181 (2001)

100) VLA HI line observations of the extremely metal-poor blue compact galaxy SBS 0335–052 (S.A. Pustilnik, E. Brinks, T.X. Thuan, V.A. Lipovetsky & Y.I. Izotov), *A.J.*, 121, 1413-1424 (2001)

101) HI-rich dwarf galaxies in the Hydra I cluster. II. Spectroscopic data (P.-A. Duc, V. Cayatte, C. Balkowski, T.X. Thuan, P. Papaderos, & W. van Driel), *Astr. Ap. Suppl.*, 369, 763-777 (2001)

102) Luminous compact galaxies at intermediate redshifts: progenitors of bulges of massive spirals ? (F. Hammer, N. Gruel, T.X. Thuan, H. Flores & L. Infante), *Ap.J.*, 550, 570-584 (2001)

103) The deeply embedded starburst in SBS 0335-052 (L.K. Hunt, L. Vanzi & T.X. Thuan), *Astr. Ap.*, 377, 66-72 (2001)

104) A spectroscopic study of the C component and the extended emission around I Zw 18 (Y.I. Izotov, F.H. Chaffee, C.B. Foltz, T.X. Thuan, R. F. Green, P. Papaderos, K.J. Fricke & N.G. Guseva), *Ap.J.*, 560, 222-235 (2001)

105) The evolutionary status of the low-metallicity blue compact dwarf galaxy SBS 0940+544 (N.G. Guseva, Y.I. Izotov, P. Papaderos, F.H. Chaffee, C.B. Foltz, R. F. Green, T.X. Thuan, K.J. Fricke & K.G. Noeske), *Astr. Ap.*, 378, 756-776 (2001)

106) FUSE observations of the blue compact dwarf galaxy Markarian 59 (T.X. Thuan, A. Lecavelier & Y.I. Izotov), *Ap.J.*, 565, 941-951 (2002)

107) HST observations of the cometary blue compact dwarf galaxy UGC 4483: a probable young galaxy ? (Y.I. Izotov & Thuan, T.X.), *Ap.J.*, 567, 875-891 (2002)

108) The KPNO International Spectroscopic Survey. III. [O III]-selected Survey list (J.J. Salzer, C. Gronwall, V.L. Sarajedini, V.A. Lipovetsky, A. Kniazev, J.W. Moody, T.A. Boroson, T.X. Thuan, Y.I. Izotov, J.L. Herrero & L.M. Frattare), *A.J.*, 123, 1292-1306 (2002)

109) The primordial Helium-4 abundance determination: systematic effects (T.X. Thuan & Y.I. Izotov), *Space Science Reviews*, 100, 263-276 (2002)

110) Near-Infrared properties of Blue Compact Dwarf Galaxies: the link between near-solar and low metallicities (L. Vanzi, L.K. Hunt & T.X. Thuan), *Astr. Ap.*, 390, 481-489 (2002)

111) A comparative study of the stellar low-surface-brightness component of I Zw 18 and other BCDs (P. Papaderos, Y.I. Izotov, K.G. Noeske, T.X. Thuan, N.G. Guseva, K.J. Fricke & R.F. Green), *Astr. Ap.*, 393, 461-483 (2002)

112) HI properties of low luminosity star-forming galaxies in the KPNO International Spectroscopic Survey (J.C. Lee, J.J. Salzer, C. Impey, T.X. Thuan & C. Gronwall), *A.J.*, 124, 3088-3117 (2002)

113) On the origin of Nitrogen (L.S. Pilyugin, T.X. Thuan & J.M. Vilchez), *Astr. Ap.*, 397, 487-501 (2003)

114) Non-confirmation of reported HI clouds without optical counterparts in the Hercules Cluster (W. van Driel, K. O'Neil, V. Cayatte, P.-A. Duc, J.M. Dickey, C. Balkowski, H. Hernandez, J. Iglesias-Paramo, P. Papaderos, J.M. Vilchez, T.X. Thuan), *Astr.Ap.*, 399, 433-439 (2003)

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Key to Journal Abbreviations

Ap.J. : Astrophysical Journal

Ap.J. Suppl. : Astrophysical Journal Supplements

Ap.J. (Letters) : Astrophysical Journal Letters

A.J. : Astronomical Journal

Astr. Ap. : Astronomy and Astrophysics

Astr. Ap. Suppl. : Astronomy and Astrophysics Supplements

Astr. Ap. (Letters) : Astronomy and Astrophysics Letters

MNRAS: Monthly Notices of the Royal Astronomical Society

P.A.S.P. : Publications of the Astronomical Society of the Pacific

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- 12) Le Faux Candide, Supplement 'Merci Bernard Pivot', *Journal du Dimanche*, Paris, France, 18 Mars 2001
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- 14) Une solidarité universelle, *Nouvel Observateur* (2002)
- 15) Preface for " Matière noire et autres cachotteries de l'Univers", Alain Bouquet and Emmanuel Monier, Dunod, Paris (2003)
- 16) Preface for "Isaac Newton", James Gleick. Dunod, Paris (2005)
- 17) Preface for "Voyage au coeur du systeme solaire", Jonathan Tavel, ViaMedias Editions (2005)
- 18) Preface for "Nout, Le Cosmos des Pharaons", Ruth Schumann Antelme and Stephane Rossini, Champollion, Editions du Rocher (2007)
- 19) Preface for "Notre vie a-t-elle un sens? Une enquete scientifique et philosophique", Jean Staune, Presses de la Renaissance (2007)
- 20) Lorsque Bouddha dit que "tout est impermanent", je l'observe, moi, de facon constante, *Le Figaro magazine*, 24 February 2007, p. 32 (2007)
- 21) La lumiere (Light), in *Abecedaire scientifique pour les curieux*, (The ABC book for curious minds) *Les tetes au carre*, Saison 2, ed. Mathieu Vidard, Paris (2009)

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IV. Books

1) Star Forming Dwarf Galaxies and Related Objects (1986), Proceedings of a Workshop held in Paris July 1-3, 1985, ed. D. Kunth, T. X. Thuan and T. T. Van, Editions Frontieres (Paris).

2) Starbursts and Galaxy Evolution, Proceedings of the March 8-15, 1987 Moriond Astrophysics Meeting, eds. T. X. Thuan, T. Montmerle, and T. T. Van, (Editions Frontieres: Paris) (1987).

3) La mélodie secrète: et l'homme créa l'univers, (T. X. Thuan). Collection Le temps des Sciences, (Fayard: Paris) (1988).

– French paperback edition, Collection Folio Essais (Gallimard: Paris) (1991)

– German edition: Die Verborgene Melodie: Und der Mensch schuf sich sein Universum (Franckh-Kosmos: Stuttgart) (1993)

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– American paperback edition, The Secret Melody: and Man Created the Universe, Templeton Foundation Press (2005)

– Polish edition (1998)

– Vietnamese edition, Editions Science et Technique, Hanoi, Vietnam (2000)

– Romanian edition, Astronomical Institute of Romanian Academy, Bucarest, Romania (2005)

– Spanish edition, Intervention Cultural, Barcelona (2007)

4) Un astrophysicien [An Astrophysicist] (T. X. Thuan). (Beauchesne-Fayard: Paris) (1992)

– Paperback edition, Collection Champs, Flammarion, 1995

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5) Le destin de l'Univers: le Big Bang et après [The Fate of the Universe: the Big Bang and After] Collection Decouvertes (Gallimard: Paris) (1992) (T. X Thuan)

– American edition: The Birth of the Universe: the Big Bang and After, Discoveries Collection (Harry N. Abrams, Inc: New York) (1993)

– German edition: Die Geburt des Universums: abenteuer geschichte (Ravensburger, Munich) (1993)

– English edition: The Changing Universe: Big Bang and After, New Horizons Collection (Thames and Hudson, London) (1993)

– Chinese edition, China Times Publishing Company (1993)

– Swedish edition: *Universums historia: Big Bang och efterat* (En Varld av Vetande, Berghs) (1994)

– Italian edition (1994)

– Japanese edition (1995)

– Korean edition (1995)

– Dutch edition: *De geschiedenis van het universum* (Fibula Pharos) (1995)

– Slovenian edition (1996)

– Russian edition, Editions AST (2002)

– Chinese Edition, Century Publishing of Shanghai (2003)

– Portugese Edition, Quimera Editores (2004)

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– Edition by Club France-Loisirs (1998)

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– Portugese edition: *O CAOS e a Harmonia: A fabricacao do real*, Terramar, Lisboa, Portugal (2000)

– Italian edition: *Il Caos E l'Armonia: Bellezza e Asimmetrie del Mondo Fisico*, Editioni Dedalo, Bari, Italy (2000)

– Greek edition: P. Travlos Publishers, Athens (2002)

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9) Extragalactic Astronomy in the Infrared, Proceedings of the March 15-22, 1997 Moriond Astrophysics Meeting, eds. G. A. Mamon, T. X. Thuan, and J. Tran Thanh Van (Paris: Editions Frontieres) (1998).

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12) Building galaxies: from the primordial era to the present, Proceedings of the March 13-20, 1999 Moriond Meeting, eds. F. Hammer, T.X. Thuan, V. Cayatte, B.Guiderdoni and J. Tran Thanh Van (Editions Frontieres: Paris) (2000)

13) L'infini dans la paume de la main: du Big Bang à l'Éveil, M. Ricard and T.X. Thuan, Nil/Fayard (2000)

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- Edition by Club France-Loisirs (2001)
- Paperback Edition, Press Pocket (2002)
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- Portugese edition, O Infinito na palma da mao, Editorial Noticias (November 2001)
- Korean edition, Samtoh Publishing Company (2001)
- Spanish edition, Editciones Urano (2001)
- Finnish edition, Basam Books Oy (2001)
- Dutch edition, Asoka Publishing (2001)
- German edition, Quantum und Lotus, Arkana, Goldmann Verlag (2001)
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- Polish edition, Kos Publishing House, Poland (2004)
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15) Origines: la nostalgie des commencements, T.X. Thuan, Fayard, Paris (2003)

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–French Paperback edition, Collection Folio-Essais, Editions Gallimard (2006)

–Vietnamese edition, Editions Tre (2006)

16) Les Voies de la Lumière: Physique et Métaphysique du Clair-Obscur, T.X. Thuan, Fayard, Paris (2007)

– Grand Prix Moron of French Academy (Academie Francaise) (2007)

–French Paperback edition, Collection Folio-Essais, Editions Gallimard (2008)

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18) Voyage au coeur de la lumière (A Journey into the heart of light) T.X. Thuan, Découvertes Gallimard, Paris (2008)

19) Essays in honor of Max Planck, eds. P.X. Yem, N.X. Xanh, **T.X.Thuan**, C. Hao, & D.V. Duc, Tri Thuc Editions, Ho Chi Minh City (2009)

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- 1) Book Review of "L'infini dans la Paume de la Main", Vien Giac Magazine, (Germany), No. 126, 59–66, December 2001
- 2) Book review of "The Quantum and the Lotus": Faith gets physical, Washington Post Book World, February 10 2002 February
- 3) Book review of Origines, "Un homme et mille confins", l'Express, Paris, 30 October 2003, p.66
- 4) Book review of Origines, le Monde, Paris, 6 December 2003, "Trinh Xuan Thuan, un zeste de zen dans la synthse cosmique"
- 5) Book review of Origines, le Devoir, Book Section, Montreal, "Le voyage intergalactique de Trinh Xuan Thuan", 13 December 2003
- 6) Book review of Origines, Ciel et Espace, "Si l'univers m'était conté", Ciel et Espace, p. 94, December 2003
- 7) Book reviews of "Les Voies de la Lumière" (February 2007)
 - "Voyage au bout de la lumière" (Travels with light) by Francoise Monier, Lire, February 2007
 - Idees (Ideas), by Patrice de Meritens, Le Figaro-Magazine, p. 32, 24 February 2007
 - Culture, by Jocelyn Morisson, Le Monde des Religions, March-April 2007
 - L'univers eclaire (The illuminated Universe), by Jerome Fenoglio, Le Monde, 20 April 2007
 - La lumiere des physiciens (The light of physicists), by Paul Mazliak, L'Humanite, 11 April 2007
 - Le cosmos en habit de lumiere (The cosmos in light) by Sylvie Rouat, Science et Avenir, Mai 2007

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2) 'A quoi pensez-vous?', Libération, 31 December 1999, Supplement, p. 100

3) Radio Interview, France Inter (Alter Ego), 10 May 2000

4) French TV interview, Bouillon de Culture (Bernard Pivot), " God, the Big Bang and Extraterrestrials", 12 May 2000

5) Belgian TV interview, Noms de Dieux (Edmond Blattchen). 13 June 2000, Broadcast on RTBF, 10 and 15 September 2000, and TV 5 International, 28 September

6) Press conference on "Infinity in the Palm of the hand", Geneva, Switzerland, 27 June 2000

7) French TV interview, France 2, "The Ultimate equation", 10 August 2000

8) Science and Spirituality, Interview in Swiss periodical L'Hebdo, 21 December 2000, Switzerland

9) Chance and Necessity, Interview in daily newspaper France-Antilles, 3 January 2001, Guadeloupe

10) Scientist affirms creative principle, interview by UPI Religion Correspondent, Washington, June 8 2001, UPI

11) Astronomy according to a scholar, Canberra Times, Sep 27, 2001

12) What does it mean to be Human? Webcast and Telecast interview from the Memorial Church at Harvard University, 22 October 2001

13) There is room for both science and religion in seeking to understand the universe, Inside UVa, Dec. 7, 2001

14) University's Astrophysicist's Book explores relationship between science and religion, UVa Top News Daily, Dec. 11, 2001

15) Live Webcast and radio interview on "Spirit of the times: Explorations in contemporary cultures", a program produced by New Dimensions Radio for broadcast on Wisdom Radio, January 28, 2002, 8 – 9 PM.

16) Live radio interview on Science and Buddhism by Bob Keeton (Living Successfully), Richmond, VA, 15 February 2002, 7 PM

17) Global Perspectives: Mysterious Universe, Interview, Science & Spirit Magazine, January-February 2002, p.48

18) Interview in Bao Nguoi Lao Dong (The Workman's Daily), Ho Chi Minh City (Vietnam), February 2002

- 19) Interview in Research News and Opportunities in Science and Theology, March 2002
- 20) Radio interview on The Quantum and the Lotus, With Good Reason, March 2002
- 21) Filming of documentary on "The nature of Knowledge" with Office National du Film (Quebec, Canada), at Kitt Peak (20 May 2002) and Paris (2 July 2002)
- 22) Arts & Sciences, UVa, July 2002, "Thuan balances the quantum and the lotus", Vol.20, No.2, p. 22
- 23) Interview in Infos Yoga, Paris, "Science and Buddhism: a meeting of minds", No. 42, p. 19, April-May 2003
- 24) Interview in Sciences & Avenir, Paris, "The decoding of the cosmic message", April 2003
- 25) Interview in Tibet und Buddhismus, Hamburg, Germany, p. 20-22, "Wissenschaft und Buddhismus: zwei Fenster zur Wirklichkeit", July-August-September 2003
- 25) Interviews with Mauritius newspapers, radio and TV, 10-17 August 2003: le Mauricien, 15 August; 16 August; Week-end: 7 September; Expresso: 14 September.
- 26) Interview in Le Soir, "Le nez dans les etoiles", Belgium, 12 September 2003 27) Interview in Science & Conscience, "Determinisme et Chaos, un subtil equilibre", Luxembourg, No. 10, p. 29-32, Autumn 2003
- 28) Cover Story interview in Sciences & Avenir, Paris, "The violent events in the Universe", October 2003
- 29) Participation in "This is not Einstein", scientific documentary produced by Canadian Office of Film, November 2003, Montreal, Quebec. Broadcast on ARTE (French TV) September 27 2003
- 30) Many interviews on French radios (Europe 1, France Inter, France-Info, Radio-France Internationale, etc) at the occasion of the publishing of my book "Origines" November 24-29 November 2003
- 31) Interview on Radio Canada, Montreal, Quebec, on my book "Origines", 26 November 2003
- 32) Interview on French TV (ITV) on my book "Origines", 28 November 2003
- 33) Book signing, Mairie de Paris, 30 November 2003
- 34) Daily Le Monde, Paris, Interview, "Trinh Xuan Thuan, un zeste de zen dans la synthese cosmique", December 6, 2003
- 35) Many interviews with Vietnamese newspapers in Ho Chi Minh City and Hanoi, Vietnam during the period July 12 - August 12 2004.
- 36) Interview on Radio France-Inter, "Tout s'explique", 16 August 2004

37) Interview on Radio Australia (Vietnamese edition), 22 September 2004

38) Stories on the discovery that IZw18 is a young galaxy (Astrophysical December 1 2004 issue):

BBC News/ <http://news.bbc.co.uk/1/hi/sci/tech/4073791.stm/> Hubble spots "youngest galaxy" / 11:08 GMT, Dec. 7, 2004

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Environmental News Network/ <http://www.enn.com/today.html?id=568/> "Peter Pan " galaxy avoided growing up/ Dec. 10, 2004

39) Interview on Canadian Broadcasting Company on "The Youngest galaxy found in the universe", December 13, 2004

40) Interview, Au plus pres des etoiles (Near the stars), Reforme Magazine, France, 24 February 2005

41) Interview, "Le messenger de Saint Antoine" Magazine, France, March 2005

42) Interview, "15 years of Astronomy with Hubble", Le Monde, Paris, France, 22 April 2005

43) Guest on French TV program "Cultures et dependances" of Franz-Olivier Gisbert, on "Will the 21st century be hostage of religions?", France 3, June 15 2005

44) Main guest on French TV program "Question Science" of Stephane Khemis, on "Is there life beyond the solar system?", France 5, June 22 2005

45) Invited Guest on French TV France 2, Présence Protestante, The Big Bang and Genesis in the Bible, 24 January 2006

46) Interview in Le Monde des Religions, L'univers a-t-il un sens ? (Does the Universe has a meaning?) September-October 2006, p.6-11.

47) Interview in Science Magazine

48) Interview by Cirque du Soleil, Las Vegas, Nevada, for the documentary film on the show "Mystere" by Franco Dragone, 18 November 2006

49) Interview on NPR, WMRA, by Tom Graham on "Science and Buddhism", 4 May 2007

50) Interview on Radio France Internationale (RFI), Program: Vietnamese edition, Subject: The Mystery of Light, 29 May 2007

51) Interview on Radio Suisse Romande, Program: Le meilleur des mondes Subject: The

Mystery of Light, 30 May 2007

52) Radio interview on France-Culture, Program: Les Chemins de la connaissance, Subject: The Mystery of Light, 7 June 2007

53) Radio interview on Radio France International, Program: Les visiteurs du jour (Caroline Lachowski), Subject: The mystery of Light, 26 June 2007

54) TV interview on France 2 Television on "Kepler and the Harmony of the world" (Virginia Crespeau), 27 June 2007

55) Radio interview on France-Inter, Program: Tout s'explique (Fabienne Chauviere), Subject: The mystery of light, 30 July 2007

56) TV interview on France TV 24 on "The Mystery of light", 31 July 2007

57) Radio interview on Canal-Academie (Elodie Courtejoie) on "The ways of light", 31 July 2007

Available on Internet: <http://www.canalacademie.com/Les-voies-de-la-lumiere-par-Trinh.html>

58) Radio interview on Vietnamese American Broadcasting Radio (Dallas-Houston), Program "Around the USA" (Phuong-Thao Ton-Nu), 29 September 2007

58) Interview in magazine "Croire Aujourd'hui", "We are the children of stars", p. 6-7, 1-15 February 2008 issue, Paris, France.

59) Press article on my achievements in the Vietnamese magazine "Investment" (Nhiep Cau dau tu), by Le Tan (pp. 14-15, 24 March 2008).

60) Press Interview article on "Stars and Galaxies" in the Vietnamese newspaper "The Vietnamese student", (Sinh Vien VietNam) by Le Ngoc Son, (p.4 , 16 April 2008)

61) Video Interview at Vietnamese Book fair, 15 March 2008, Ho Chi Minh City, at the occasion of the publication of the Vietnamese translation of my book **The Ways of Light**.

62) Radio Interview on Les Voies de la lumiere, France Inter, Osmose (Fabienne Chauviere), 21 May 2008

63) TV appearance, "Chez FOG", interview by Franz-Olivier Gisbert, on the book "L'univers s'est-il cree tout seul?", 31 May 2008

64) Interview on "Science and Spirituality" by Marc de Smedt, posted on his Web site, 11 June 2008

65) Interview by the magazine "La Vie", 23 June 2008

66) Interview in Asia Magazine, Paris, August 2008 issue

67) Interview by Radio Chretienne Francaise, September 1 2008

68) Interview by BBC World Radio Service on "Extraterrestrial intelligence and Buddhism", 17 September 2008

69) Interview (9 April 2009) by David Grubin in "The life of Buddha" to be broadcasted on PBS in March 2010

70) Interview by La Vie (Life), French magazine, on the topic of "Happiness" (23 April 2009)

Talks and seminars (from 2000 on)

- 1) The Big Bang and the anthropic principle, Université Interdisciplinaire de Paris, 24 January 2000
- 2) Man and the Universe, Book Fair, Lyon, France, 30 January 2000
- 3) Time and the Universe, Observatoire de Meudon, France, 2 February 2000
- 4) The Big Bang and after, Alliance Francaise of Bale, Switzerland, 29 February 2000
- 5) Science and Meaning, Institut des Arts et Métiers, Paris, 15 March 2000
- 6) Blue compact galaxies and the primordial Helium abundance, Institut d'Astrophysique de Paris, 17 March 2000
- 7) Metal-deficient dwarf galaxies, Giraffe workshop. Marseille, France, 28-30 March 2000
- 8) Science and Buddhism, UNESCO, Paris, April 13 2000
- 9) Man and the Universe, Université de Pau, France, April 14 2000
- 10) Blue compact dwarf galaxies and the primordial Helium abundance, Université de Toulouse, France, April 17 2000
- 11) The future of the Universe, UNESCO, Paris, 5 May 2000
- 12) The place of Man in the Universe, Science and Management, Château des Mesnuls, France, 12 May 2000
- 13) Science and Buddhism, Ecole de Médecine, Paris, 13 May 2000
- 14) Man's place in the Universe, Andorra, 15 May 2000
- 15) The primordial Helium abundance, Arecibo Observatory, Puerto Rico, 25 May 2000
- 16) Blue Compact Galaxies and the Primordial Helium Abundance, Université de Grenoble, France, 22 June 2000
- 17) Blue Compact Galaxies and the Primordial Helium Abundance, Basel University, Switzerland, 26 June 2000
- 18) Science and Buddhism, Café des Sciences, CERN, Geneva, Switzerland, 27 June 2000
- 19) Science and Buddhism, Geneva, Switzerland, 27 June 2000
- 20) Blue Compact Galaxies and the Primordial Helium Abundance, Arcetri Observatory, Florence, Italy, 30 June 2000
- 21) The Anthropic Principle, French Academy of Sciences, Paris, 5 July 2000
- 22) Lectures on Astrophysics; from the solar system to the Universe, University of Hanoi, Vietnam, 13 – 20 July 2000

23) Big Bang nucleosynthesis and the baryonic content of the Universe, invited review talk at the Physics meeting on "The Universe at very high energies", Hanoi, Vietnam, 24 July 2000

24) The place of man in the Universe, Festival of Astronomy, Haute-Maurienne, France, 9 August 2000

25) Does the Universe has a meaning? Public Lecture at Pointe-a-Pitre, Guadeloupe, 29 December 2000

26) Science and Buddhism, invited talk at the meeting on 'Science and the Spritual Quest', UNESCO, Paris, France, 9–12 January 2001

27) Man's place in the Universe, invited public talk, UNESCO, Paris, France, 11 January 2001

28) Blue Compact Galaxies and the primordial Helium abundance, invited review talk at the meeting on 'Matter in the Universe', Bern, Switzerland, 19–23 March 2001

29) Astronomy and Metaphysics: does the Universe have a meaning?, invited talk at the meeting on 'Science and Religion: a Metaphysical Question?', University of Quebec at Montreal, Canada, 5–6 April 2001

30) The Big Bang and after: Does the Universe have Meaning? Invited public Talk at The General Theological Seminary, New York, June 6 2001

31) Science and Buddhism, invited talk at the "Science and Spiritual Quest" meeting at the General Theological Seminary, New York, 7-10 June 2001

32) The primordial Helium abundance, invited review at the meeting on "Frontiers of Astrophysics", Blois, France, 17-23 June 2001

33) Science and Buddhism, invited talk at the XXI International Congress of History of Science on "Science and Cultural Diversity", Mexico City, Mexico, 7-14 July 2001

34) Science and Buddhism: Gentle Bridges between the sciences of the world and the sciences of the mind, invited talk at the Science and Spiritual Quest Boston conference at Harvard University (Memorial Church) , 21–23 October 2001

35) The Quantum and the Lotus, Invited talk at Speculations Salon, The Writer's Center, Bethesda, MD, February 10 2002

36) Buddhism and Science: A meeting of the Minds, Invited public talk at The Smithsonian Associates, March 7 2002, 6 – 7:30 PM

37) Science and Buddhism: Gentle Bridges, University of Virginia Commonwealth 2020 Lecture in the "Engaging the Mind" series , Roanoke, March 22 2002, 7 – 9 PM

38) "The Quantum and the Lotus", Virginia Festival of the Book, Charlottesville, March 24 2002, 1:30 PM

39) Blue Compact Dwarf Galaxies: laboratories for galaxy evolution studies, colloquium in

Astronomy Department, Cornell University, 4 April 2002

40) Science and Buddhism: at the crossroads, invited talk at The Science and Spiritual Quest meeting at UNESCO, Paris, 19–20 April 2002

41) The primordial Helium abundance and Blue Compact dwarf Galaxies, colloquium at Yale University, May 2 2002.

42) Science and Buddhism: at the crossroads, invited talk at the Centre d'Etudes et de Recherche des Dirigeants, Casablanca, Morocco, 31 May 2002

43) Science and Buddhism: at the crossroads, invited talk at the University of Al Akhawayn, Ifrane, Morocco, 1 June 2002

44) Globalization with a soul, Invited talk at the Festival of Sacred Music, Fez, Morocco, 2 June 2002

45) Science and Buddhism: at the crossroads, invited talk at the Astrophysics summer school of the Vatican Observatory, Castel Gandolfo, Italy, 7-12 July 2002

46) Science and Buddhism: at the crossroads, talk at the East Asian Center, University of Virginia, 13 September 2002

47) Science and Buddhism: at the crossroads, Alliance Francaise, Charlottesville, 19 October 2002

48) Panel discussion on East Meet West: Buddhism and Eastern Philosophy meet America, Science and Modernism, Unified Field Summit on Art, Science and Spirituality, Aspen, Colorado, WESTAF meeting, 4-6 October 2002

49) Science and Buddhism: a meeting of the minds, invited talk at the conference on Unity in Duality, Munich, Germany, 9-13 October 2002

50) Templeton lecture, Lecture Series on Science and Religious Faith, Purdue University, LaFayette, Indiana, "Buddhism and Science: Gentle Bridges", February 6, 2003

51) The Primordial Helium abundance and the baryonic content of the Universe, Physics colloquium, Purdue University, LaFayette, Indiana, February 6, 2003

52) The Quantum and the Lotus, Administrative Office of the US Courts, Washington, D.C., 6 May 2003

53) The Primordial Helium abundance and the baryonic content of the Universe, Observatoire de Nice, France, 27 May 2003

54) The Big Bang and after, Public Lecture, Centre Universitaire Mediterranéen, Nice, France, 27 May 2003

55) Globalization and Education, Rencontres de Fez, Morocco, 11 June 2003

56) The Big Bang and after, Public Lecture, Hotel Corot, Ville d'Avray, France, 13 June 2003

57) Man's place in the Universe, Public Lecture, University of Mauritius, 12 and 13 August 2003

58) The evolution of the Universe, Public Lecture, Cultural Center of the French Embassy, Mauritius, 14 August 2003

59) Buddhism and Science, Public Lecture, Buddhist association of Mauritius, 15 August 2003

60) The Big Bang and after: the poetry of the Universe, Inaugural Address to the Biannual International meeting of Poets, Liège, Belgium, 12-14 September 2003

61) Science and Buddhism: a Meeting of the minds, Maryville College, Maryville, Tennessee, 6 November 2003

62) The Big Bang and after: does the universe have a meaning? TETRA association, Brussels, 24 May 2004

63) The Big Bang and after: does the universe have a meaning? Grande Loge Nationale de France, Paris, 17 June 2004

64) The Big Bang and After: Man's place in the Universe, Ho Chi Minh City University of Foreign Languages and Information Technology, Vietnam, 15 July 2004

65) The Big Bang and After: Man's place in the Universe, Hanoi University of Technology, Vietnam, 29 July 2004

66) The Universe, Thang Long Society (Cau Lac Bo Thang Long), Hanoi, Vietnam, 3 August 2004

67) Chaos and Harmony, Institute of Mechanics, Vietnamese Academy of Science and Technology, Hanoi, Vietnam, 3 August 2004

68) The anthropic principle, Institute of Social Studies, Hanoi, Vietnam, 9 August 2004

69) The evolution of the Universe, Vietnam Astronomical Society, Hanoi, Vietnam, 10 August 2004

70) IZw18: a young galaxy in the local universe, Invited talk at the 5th Rencontres du Vietnam, "Particle Physics and Astrophysics", 5-11 August, 2004

71) Young galaxies in the local universe, National Radio Astronomy Observatory, Charlottesville, VA, 16 November 2004

72) Astrophysics and Cosmology, Renaissance Week-end, Hilton Head Island, SC, 26 November 2004

73) Man's place in the Universe, Renaissance Week-end, Hilton Head Island, SC, 26 November 2004

74) The Big Bang and After, Alumni association of ENA, Polytechnique and HEC, Paris, France, 12 January 2005

- 75) Cosmic origins: Man, child of stars, Book Festival of Guadeloupe, Pointe-a-Pitre, Guadeloupe, French Antilles, 27 April 2005
- 76) The Big Bang and After, Talk to high school students, Book Festival of Guadeloupe, Pointe-a-Pitre, Guadeloupe, French Antilles, 28 April 2005
- 77) The History of the Universe, Public Talk at the Town Hall of Fort-de-France, Martinique, French Antilles, 28 April 2005
- 78) The History of the Universe, Radiant, Lyon, France, 24 May 2005
- 79) The great cosmic history and the education of children, at the meeting on " A soul for globalization: an education to diversity", Fez, Morocco, June 5 2005
- 80) Talk on Science and Buddhism at the "Global perspectives on Science and Religion" plenary meeting, Mont-Royal, France, 17 July 2005
- 81) Cosmological studies with blue compact dwarf galaxies, Talk at Main Astronomical Observatory, Kiev, Ukraine, 28 July 2005.
- 82) Man and the Universe, Talk at the Grande Loge feminine de France, Paris, France, 13 October 2005
- 83) Buddhism and Science: a meeting of the minds, invited talk at the meeting on "Science and Orthodox religion", Bucharest, Romania, 22-25 October 2005
- 84) The place of Man in the Universe, invited talk at Alcatel, Cannes, France, November 4 2005
- 85) The latest developments in Cosmology, Talk at French Senate, Palais du Luxembourg, January 7 2006
- 86) How I became an Astrophysicist, Talk at Ecole Nationale Superieure de Techniques Avancees, January 11 2006
- 87) The Big Bang and after, Talk at the Museum of Modern Art, Palais de Tokyo, Paris, France, at the occasion of the exhibition "Notre Histoire" (Our History), 22 January 2006
- 88) The history of the Universe, Talk at Eliane de Compiègne's home, 31 January 2006
- 89) Blue compact dwarf galaxies and Cosmology, Colloquium at Service d'Astrophysique, Centre d'Etudes de Saclay, France, 30 March 2006
- 90) Blue compact dwarf galaxies and Cosmology, Colloquium at Institut d'Astrophysique, Paris, France, 28 April 2006
- 91) The Big Bang and after, Public talk at Montelimar, France (organized by Marie-Therese Bahri), 18 May 2006
- 92) Invited talk on The big bang and after, at the UNESCO meeting on "Les Chemins de la Pensee a la frontiere des sciences et des humanites) " (Pathways of Thought on the Science-Humanities Border), Rio de Janeiro, Brazil, 1-2 June 2006

93) Blue compact dwarf galaxies and Cosmology, Colloquium at Geneva Observatory, Switzerland, 16 June 2006

94) Science and Buddhism, Invited talk at International Society for science and religion meeting at Cambridge University, Cambridge, England, 12 July 2006

95) The limits and complementarity of scientific and spiritual knowledge, invited talk at a conference on "The boundaries of knowledge, christianity and the natural sciences", Columbus, Ohio, 10 November 2006

96) Science and Buddhism; at the cross-roads, lecturer, Center for theology and the Natural sciences, Science and Transcendence Advanced Research Series (STARS), conference on Cosmology, Cancun, Mexico, 3-7 January 2007

97) Workshop on Science and Buddhism, Harvard Divinity School, Cambridge, MA, 20-21 April 2007

98) Man's place in the Universe, Toulouse, France, 21 May 2007

99) Man's place in the Universe, Lyon, France, 31 May 2007

100) Faith and reason in the modern world, invited talk at Rencontres de Fez, Fez, Morocco, 4 June 2007

101) Man's place in the Universe, Le Havre, France, 8 June 2007

102) Man and the Universe, Rennes, France, 12 June 2007

103) Man's place in the Universe, Paris, France, 20 June 2007

104) Man and the Universe, Lille, France, 20 June 2007

105) Man and the Universe, Metz, France, 3 July 2007

106) The Big Bang and after, Saint-Etienne, France, 10 January 2008

107) Man's place in the Universe, Nantes, France, 23 May 2008

108) Man's place in the Universe, Observatoire de Paris, France, 28 May 2008

109) Man's place in the Universe, Lille, France, 30 May 2008

110) The Anthropic Principle, Doha, Qatar, 1 June 2008

111) Man's place in the Universe, Toulouse, France, 5 June 2008

112) Introductory talk at Jazz Festival at Bouffes du Nord, Paris, "Nature plays jazz", 10 June 2008

113) Man's place in the Universe, Lyon, France, 12 June 2008

114) Man's place in the Universe, Montpellier, France, 13 June 2008

115) Keynote speaker at IAU Symposium 255, Rapallo, Italy, "Blue Compact dwarf galaxies:

Laboratories for probing the primordial universe”, 18 June 2008

116) Man and the Universe, Le Havre, France, 27 June 2008

117) Man’s place in the Universe, Pointe-a-Pitre, Guadeloupe, France, 10 and 12 December 2008

118) Blue Compact dwarf galaxies: laboratories for the primordial universe, Institut d’Astrophysique, Universite de Liege, Belgium, 4 March 2009

119) The Big Bang and After, Distinguished Speaker Series in Liege, Belgium, 5 March 2009

Meetings (from 2002 on)

- 1) Founding meeting of the International Society of Science and Religion, Granada, Spain, 19-23 August 2002
- 2) Board of Advisors meeting, John Templeton Foundation, Philadelphia, 7-8 October 2002
- 3) Board of Advisors meeting, John Templeton Foundation, Palo Alto, 24-25 March 2003
- 4) Workshop on Brain, Mind and Emergence, Stanford University, Palo Alto, 21-23 March 2003
- 5) Executive committee meeting of the International Society of Science and Religion, London, 23 August 2003
- 6) Board of Advisors meeting, John Templeton Foundation, Boston, 13 October 2003
- 7) Workshop on "Anthropic constraints in Biology", Harvard University, 10-12 October 2003
- 8) Workshop on "Laws of Nature", Ecole Normale Superieure, Paris, 30 April 2004
- 9) Board of Advisors meeting, John Templeton Foundation, Paris, 3 May 2004
- 10) 5th Rencontres du Vietnam, "Particle Physics and Astrophysics". August 5-11, 2004
- 11) Board of Advisors meeting, John Templeton Foundation, Nassau, Bahamas, 4 October 2004
- 12) Executive committee meeting of the International Society of Science and Religion, Cambridge University, Cambridge, England, 2 July 2005
- 13) Chair of session on "Spiral galaxies" in the meeting on "Mass profiles and shapes of cosmological structures", 21st IAP workshop, 4-9 July 2005
- 14) UNESCO meeting on "Pathways of Thought on the Science-Humanities Border", Rio de Janeiro, Brazil, June 1-2 2006
- 15) Executive committee meeting of the International Society for Science and Religion, Cambridge University, Cambridge, England, 8-12 July 2006
- 16) "The boundaries of knowledge in Buddhism, Christianity and the Natural Sciences", Theological Consortium of Greater Columbus, Columbus, Ohio, 10-11 November 2006
- 17) STARS conference on Cosmology, Cancun, Mexico, 3-7 January 2007
- 18) Keynote speaker, International Astronomical Union Symposium 255, "Low-metallicity Star Formation: from the first stars to dwarf galaxies", Rapallo(genova), Italy, 16-20 June 2008
- 19) Board of Advisors meeting, John Templeton Foundation, Beijing, China, 13-15 October 2008

Observing runs

From 2002 on

1) 4m telescope, Kitt Peak National Observatory, "The dY/dZ slope", 30 Dec 2002 – 1 January 2003

2) 6.5m telescope, MMT Observatory, "WR stellar populations in metal-deficient blue compact dwarf galaxies", March 4–5, 2003

3) 6.5m telescope, MMT Observatory, "High-ionization radiation in metal-deficient blue compact dwarf galaxies", February 18-19, 2004

4) 6.5m telescope, MMT Observatory, "High-ionization radiation in metal-deficient blue compact dwarf galaxies", February 2-3, 2005

5) 3.6m telescope, ESO, "Blue compact dwarf galaxies in the 2DF survey", April 10-14, 2005

6) 6.5m MMT, Tucson, Arizona, "Spectroscopy of the most metal-deficient blue compact dwarf galaxies in the Sloan Digital Sky Survey", 15-16 December 2006

7) Title: Metal-deficient blue compact dwarf galaxies: 6.5m MMT, Tucson, Arizona
Dates: 11-12 January 2007

8) Title: Imaging of very low-metallicity emission-line dwarf galaxies in the Sloan Digital Sky Survey, 2.1m, Kitt Peak National Observatory, Tucson, Arizona
Dates: 8-12 February 2007

9) Title: Helium abundance in very low-metallicity blue compact dwarf galaxies selected from the Sloan Digital Sky Survey, 3.5 m, Apache Observatory, New Mexico
Dates: 9-11 December 2008

10) Title: Spectroscopy of the most metal-deficient blue compact dwarf galaxies in the Sloan Digital Sky Survey : 6.5m MMT, Tucson, Arizona
Dates: 27-28 March 2008

11) Title: Abundances in very low-metallicity blue compact dwarf galaxies selected from the Sloan Digital Sky Survey, 3.5 m, Apache Observatory, New Mexico
Remote Observing: Dates: 6 February, 29 February, 12 April, 25 April, 6 May 2008

12) Many observing runs at the 3.5 m Apache Observatory and at the 8 m Large Binocular Telescope (LBT) 2008-2009

National Committees

From 2000 on

- Member of Telescope Allocation Committee of Hubble Space Telescope (Cycle 10) November 2000

- External Ph.D Examiner of Mr. Henry Lee, Astronomy Department, York University, Toronto, Canada, 17 December 2001

- Jury member of "Habilitation" defense of Marc Sauvage, Service d'Astrophysique, Saclay, France, 27 March 2006

University Committees

From 1999 on

Ecole Normale superieure Fellowship Selection Committee 1999-2001

Page-Barbour Richards Lectures Committee August 25, 2001 – May 24, 2004

Promotions and Tenure Committee 2001-2002, 2002-2003

Public Outreach (from 2002 on)

1) Smithsonian Study Tour Leader and Lecturer on the theme "Sanctuaries of the Ancient world: an exploration of sacred places and timeless monuments", November 3-25, 2002. Lectures on: 1) The Sky and the sense of the sacred; 2) How a Buddhist sees reality; and 3) Angkor, City of Gods

2) Co-producer of the IMAX Planetarium show on "Dark Matter" at the Science Museum of Virginia, Richmond, VA, Screening on February 20, 2003

Grants

From 1997 on

1) Title: Young Galaxies

Aim: To investigate the evolutionary status of extremely metal-deficient blue compact dwarf galaxies. These appear to be young galaxies, with stars not older than 100 Million yr. We use these to measure the primordial Helium abundance which provides a strong constraint on the Big Bang theory.

Funding Agency: National Science Foundation

PI: Trinh Xuan Thuan

Start Date: 05/01/97

1) Title: Young Galaxies

End Date: 04/30/01

Amount: \$50,000

UVa Fund Code: 5-26335

Status: closed

2) Title: ISO Studies of Blue Compact Dwarf Galaxies

Aim: we have obtained infrared observations of these dwarf galaxies with the Infrared Space Observatory (ISO) and are studying dust formation in very metal-deficient environments.

Funding agency: NASA (ISO)

PI: Trinh Xuan Thuan

Start Date: 08/24/98

End date: 09/31/2001

Amount: \$68,701

UVa Fund Code: 5-28691

Status: closed

3) Title: Are the SCUBA deep survey sources starbursts or AGN?

Aim: to use the X-ray emission to study the physical nature of distant starburst galaxies detected in the sub-mm.

Funding agency: NASA- XMM Cycle 1

PI: Walter Gear (Thuan is a Co-I)

Start Date: 09/15/00

End date: 09/14/01

Amount: \$12,300

UVa Fund Code: 5-28799

Status: closed

4) Title: Far-Ultraviolet studies of metal-deficient blue compact dwarf galaxies

Aim: Use the UV lines to study the molecular hydrogen content of blue compact dwarf galaxies

Funding agency: NASA (FUSE Cycle 1)

PI: Trinh Xuan Thuan

Start Date: 02/01/00

End date: 01/31/03
Amount: \$54,300
Award No: NAG5-8954
UVa Fund Code: 5-28762
Status: closed

5) Title: The X-ray emission of the nearly primordial blue compact dwarf galaxy SBS 0335–052

Aim: Study the hot gas content in this dwarf galaxy
Funding Agency: NASA (AXAF Cycle 1)
PI: Trinh Xuan Thuan
Start Date: 09/20/00
End date: 09/19/03
Amount: \$49,747
Award No: GO0-1149X
UVa Fund Code: 5-28806
Status: closed

6) Title: The red giant stellar population in two nearby low-metallicity blue compact dwarf galaxies

Aim: to use the Hubble Space Telescope to resolve nearby dwarf galaxies into stars to study their stellar populations and put constraints on their age.
Funding Agency: NASA-HST Cycle 9
PI: Trinh Xuan Thuan
Start Date: 09/01/00
End date: 08/31/04
Amount: \$49,812
Award No: HST-GO-08769.01-A UVa Fund Code: 5-28802
Status: closed

7) Title: Dark Matter: A planetarium show at the science museum of Virginia

Funding Agency: NASA-HST Cycle 11
PI: Trinh Xuan Thuan
Start Date: 01/01/03
End date: 12/31/03
Amount: \$384
Status: closed

8) Title: The Interstellar Medium of Blue Compact Dwarf Galaxies

Aim: to use UV spectra to study how the properties of the interstellar medium in galaxies change with metallicity.
Funding agency: NASA-FUSE Cycle 2
PI: Trinh Xuan Thuan
Start Date: 02/15/01
End Date: 08/14/05

Amount: \$87,795
Award No: NAG5-10341
UVa Fund Code: 111157
Status: closed

9) Title: Cosmological studies with low-metallicity blue compact dwarf galaxies
Aim: to determine the primordial Helium abundance, the slope dY/dZ , the stellar populations, gas content and chemical evolution of metal-deficient BCDs
Funding Agency: CRDF
PI: Trinh Xuan Thuan
Start Date: 09/01/2003
End Date: 02/28/2006
Amount: \$11,000
Award No: UP1-2551-KV-03
UVa Award No: 120780
Status: Closed

10) Title: The nature of the most luminous star-forming galaxies in the redshift range 0.4 to 1.5
Aim: to study the morphology and colors of intermediate-redshift luminous star-forming galaxies and combine with deep spectroscopy to probe the nature and formation of these objects.
Funding agency: NASA-HST Cycle 10
PI: Trinh Xuan Thuan
Start date: 05/01/01
End Date: 04/30/06
Amount: \$66,013
Award No: HST-GO-09149.05-A
UVa Fund Code: 113485
Status: Closed

11) Title: The hot ISM of chemically unevolved galaxies
Aim: to study the time evolution of the hot gas in two "cometary" blue compact galaxies with propagating star formation.
Funding Agency: NASA (XMM Cycle 2)
PI: Trinh Xuan Thuan
Start Date: 03/01/2003
End Date: 02/28/2007
Amount: \$52,800
Award No: NAG5-12937
UVa Award No: 118552
Status: closed

12) Title: Galaxy Evolution Studies with metal-deficient blue compact dwarf galaxies
Research: To study extremely metal-deficient blue compact dwarf galaxies in the Sloan and 2DF surveys, and investigate their evolutionary status. These appear to be young galaxies,

with stars not older than 500 Million yr. We use these to measure the primordial Helium abundance which provides a strong constraint on Big Bang nucleosynthesis and the amount of baryonic dark matter in the Universe.

Funding Agency: National Science Foundation

PI: Trinh Xuan Thuan

Start Date: 08/01/2002

End Date: 07/31/2008

Amount: \$81,282

Award No: AST-0205785

UVa PTAO : 116962

Status: Closed

13) Title: Are there young galaxies in the local universe: the age of the blue compact dwarf galaxy I Zw 18

Aim: to use Hubble Space Telescope observations to check whether the lowest metallicity star-forming galaxies known contain red giant stars or not, and put constraints on their age and evolutionary status.

Funding Agency: NASA-HST Cycle 11

24 orbits on the Hubble Space Telescope

PI: Trinh Xuan Thuan

Start Date: 05/01/03

End date: 12/31/08

Amount: \$71,895

Award No: HST-GO-09400.01

UVa PTAO : 119013

Status: Closed

14) Title: The infrared spectral energy distribution of metal-deficient Blue Compact Dwarf Galaxies

Aim: to use infrared spectra and images of low-metallicity star-forming dwarf galaxies obtained with the Spitzer satellite to study star formation and the dust content in a nearly primordial gaseous environment

Funding Agency: NASA (Spitzer Cycle 1)

PI: Trinh Xuan Thuan

Start Date: 07/01/2004

End Date: 08/31/2009

Amount: \$213,800

Award No: JPL-1263707

UVa Award No: 121464

15) Title: The evolution of Starburst galaxies

Research: US Gemini Fellowship for Jose Eduardo Telles (University of Rio de Janeiro, Brazil) who is spending a year in the UVa Astronomy Department. In particular, he will be working

with me on star-forming dwarf galaxies

Funding Agency: Association of Universities for Research in Astronomy (AURA)

PI: Trinh Xuan Thuan

Start Date: 10/01/2007

End Date: 08/31/2009

Amount: \$68,638

Award No.:GF-1008-00

UVa Award PTAO: 130062 GO10771 31670

16) Title: Extreme Star Formation in low-metallicity dusty compact dwarf galaxies

Research: to use Spitzer spectra and images(36.5 hours of observing time) to study star formation and the dust content in dusty compact dwarf galaxies

Funding Agency: NASA JPL (Spitzer Cycle 5)

PI: Trinh Xuan Thuan

Start Date: 09/10/2008

End Date: 06/30/2010

Amount: \$165,600

Award No: 1354346

UVa Award PTAO: 131587 GG11125

17) Title: Exploratory Chandra observations of low-metallicity AGN candidates

Research: to explore the X-ray emission of 4 low-metallicity emission-line dwarf galaxies believed to contain intermediate-mass black holes of about 1 million solar masses

Funding Agency: NASA (Chandra Cycle 10)

PI: Trinh Xuan Thuan

Start Date: 01/15/2009

End Date: 01/14/2010

Amount: \$29,120

Award No: G09-0106A

UVa Award PTAO: 132512 GG11172