

Marc VAN DER SLUYS

Publication list

PUBLICATION SUMMARY

REFEREED PUBLICATIONS:	94	ONLINE PUBLICATIONS:	13
NON-REFEREED PUBLICATIONS:	11	SCIENTIFIC SOFTWARE PACKAGES:	17
CITATIONS:	19002	CONTRIBUTIONS TO CONFERENCES:	24
H-INDEX:	58	SEMINAR TALKS AND COLLOQUIA:	20
I10-INDEX:	93	POPULAR TALKS AND LECTURES:	145

REFEREED PUBLICATIONS

1. van der Sluys, M. & van Kan, 2021, P., in preparation: **SolTrack: a free, fast and accurate C/C++, Python and Arduino routine to compute the position of the Sun**
2. Catau, R., et al. 2020, Urban and Transit Planning, 415: **High-Concentration Solar Energy Systems for the Built Environment**
3. Sonneveld, P., et al., accepted for publication in Acta Horticulturae, 2019: **A concentrated-solar system to reduce greenhouse heat load and generate energy**
4. Verbunt, F., & van der Sluys, M. 2019, Journal for the History of Astronomy 50.4, 383: **Why Halley did not discover proper motion and why Cassini did**
5. van der Sluys, M., van Kan, P., & Sonneveld, P. 2015, AIPC, 1679, 080003: **CPV in the built environment**
6. P. Sonneveld, M. van der Sluys, A. van Rhijn & M. Hebbink, GreenSys 1170, 477, 2015: **Feasibility study of an electricity delivering Fresnel greenhouse**
7. van Haaften, L. M., Nelemans, G., Voss, R., van der Sluys, M. V., & Toonen, S. 2015, A&A, 579, A33: **Population synthesis of classical low-mass X-ray binaries in the Galactic Bulge**
8. Veitch, J., et al. 2015, PhRvD, 91, 042003: **Parameter estimation for compact binaries with ground-based gravitational-wave observations using the LALInference software library**
9. Sidery, T., et al. 2014, PhRvD, 89, 084060: **Reconstructing the sky location of gravitational-wave detected compact binary systems: Methodology for testing and comparison**
10. Shah, S., Nelemans, G., & van der Sluys, M. 2013, A&A, 553, A82: **Using electromagnetic observations to aid gravitational-wave parameter estimation of compact binaries observed with LISA. II. The effect of knowing the sky position**
11. Ratti, E. M., et al. 2013, MNRAS, 431, L10: **IGR J19308+0530: Roche lobe overflow on to a compact object from a donor 1.8 times as massive**
12. van Haaften, L. M., Nelemans, G., Voss, R., Toonen, S., Portegies Zwart, S. F., Yungelson, L. R., & van der Sluys, M. V. 2013, A&A, 552, A69: **Population synthesis of ultracompact X-ray binaries in the Galactic bulge**
13. Shah, S., van der Sluys, M., & Nelemans, G. 2012, A&A, 544, A153: **Using electromagnetic observations to aid gravitational-wave parameter estimation of compact binaries observed with LISA**
14. Veitch, J., et al. 2012, PhRvD, 85, 104045: **Estimating parameters of coalescing compact binaries with proposed advanced detector networks**
15. Woods, T. E., Ivanova, N., van der Sluys, M. V., & Chaichenets, S. 2012, ApJ, 744, 12: **On the Formation of Double White Dwarfs through Stable Mass Transfer and a Common Envelope**
16. Loveridge, A. J., van der Sluys, M. V., & Kalogera, V. 2011, ApJ, 743, 49: **Analytical Expressions for the Envelope Binding Energy of Giants as a Function of Basic Stellar Parameters**
17. M. Politano, M.V. van der Sluys, R.E. Taam, and B. Willems, 2010, ApJ 720, 1752: **Population Synthesis of Common Envelope Mergers: I. Giant Stars with Stellar or Substellar Companions**
18. V. Raymond, M.V. van der Sluys, I. Mandel, V. Kalogera, C. Röver, N. Christensen, 2010, CQG 27, 114009: **The effects of LIGO detector noise on a 15-dimensional Markov-chain Monte-Carlo analysis of gravitational-wave signals**

19. G. Nelemans, L.R. Yungelson, M.V. van der Sluys and Christopher A. Tout, 2010, MNRAS 401, 1347: **The chemical composition of donors in AM CVn stars and ultra-compact X-ray binaries: observational tests of their formation**
20. Marc van der Sluys, Ilya Mandel, Vivien Raymond, Vicky Kalogera, Christian Röver and Nelson Christensen, 2009, CQG 26, 204010: **Parameter estimation for signals from compact binary inspirals injected into LIGO data**
21. B. Aylott et al. 2009, CQG 26, 165008: **Testing gravitational-wave searches with numerical relativity waveforms: Results from the first Numerical INjection Analysis (NINJA) project**
22. V. Raymond, M.V. van der Sluys, I. Mandel, V. Kalogera, C. Röver and N. Christensen 2009, CQG 26, 114007: **Degeneracies in Sky Localisation Determination from a Spinning Coalescing Binary through Gravitational Wave Observations: a Markov-Chain Monte-Carlo Analysis for two Detectors**
23. L. Cadonati et al. 2009, CQG 26, 114008: **Status of NINJA: the Numerical INjection Analysis project**
24. M.V. van der Sluys, C. Röver, A. Stroerer, V. Raymond, I. Mandel, N. Christensen, V. Kalogera, R. Meyer and A. Vecchio 2008, ApJ 688, L61: **Gravitational-wave astronomy with inspiral signals of spinning compact-object binaries**
25. M. Politano, R.E. Taam, M.V. van der Sluys, and B. Willems 2008, ApJ 687, L99: **Common Envelope Mergers: A Possible Channel for Forming Single sdB Stars**
26. M.V. van der Sluys, V. Raymond, I. Mandel, C. Röver, N. Christensen, V. Kalogera, R. Meyer and A. Vecchio 2008, CQGra 25, 184011: **Parameter estimation of spinning binary inspirals using Markov-chain Monte Carlo**
27. K. Belczynski, R.E. Taam, E. Rantsiou and M.V. van der Sluys 2008, ApJ 682, 474: **Black-hole spin evolution: implications for short hard gamma-ray bursts and gravitational-wave detection**
28. M.V. van der Sluys, F. Verbunt and O.R. Pols 2006, A&A 460, 209: **Modelling the formation of double white dwarfs**
29. J. in 't Zand, A. Cumming, M. van der Sluys, F. Verbunt and O. Pols 2005, A&A 441, 675: **On the possibility of a helium white dwarf donor in the presumed ultracompact binary 2S 0918-549**
30. M.V. van der Sluys, F. Verbunt and O.R. Pols 2005, A&A 440, 973: **Reduced magnetic braking and the magnetic capture model for the formation of ultra-compact binaries**
31. M.V. van der Sluys, F. Verbunt and O.R. Pols 2005, A&A 431, 647: **Creating ultra-compact binaries in globular clusters through stable mass transfer**
32. S.-C. Yoon, N. Langer, and M. van der Sluys 2004, A&A 425, 207: **On the stability of thermonuclear shell sources in stars**
33. M.V. van der Sluys and H.J.G.L.M. Lamers 2003, A&A 398, 181: **The dynamics of the nebula M1-67 around the run-away Wolf-Rayet star WR 124**

Refereed LIGO Scientific Collaboration (LSC) publications

34. Abbott, B. P., et al. 2016, PhRvX, 6, 041014: **Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model**
35. Abbott, B. P., et al. 2016, PhRvL, 116, 241102: **Properties of the Binary Black Hole Merger GW150914**
36. Aasi, J., et al. 2016, PhRvD, 93, 042007: **First low frequency all-sky search for continuous gravitational wave signals**
37. Aasi, J., et al. 2016, PhRvD, 93, 042006: **Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers**
38. Abbott, B. P., et al. 2016, PhRvD, 93, 042005: **All-sky search for long-duration gravitational wave transients with initial LIGO**
39. Abbott, B. P., et al. 2016, LRR, 19, 1: **Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo**
40. Aasi, J., et al. 2015, ApJ, 813, 39: **Searches for Continuous Gravitational Waves from Nine Young Supernova Remnants**

41. Aasi, J., et al. 2015, CQGra, 32, 115012: **Characterization of the LIGO detectors during their sixth science run**
42. Acernese, F., et al. 2015, JPhCS, 610, 012014: **The Advanced Virgo detector**
43. Accadia, T., et al. 2015, ppyc.conf, 261: **Advanced Virgo Interferometer: a Second Generation Detector for Gravitational Waves Observation**
44. Aasi, J., et al. 2015, PhRvD, 91, 062008: **Directed search for gravitational waves from Scorpius X-1 with initial LIGO data**
45. Aasi, J., et al. 2015, PhRvD, 91, 022004: **Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data**
46. Aasi, J., et al. 2015, PhRvD, 91, 022003: **Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors**
47. Acernese, F., et al. 2015, CQGra, 32, 024001: **Advanced Virgo: a second-generation interferometric gravitational wave detector**
48. Aasi, J., et al. 2014, PhRvL, 113, 231101: **Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009-2010 LIGO and Virgo Data**
49. Aartsen, M. G., et al. 2014, PhRvD, 90, 102002: **Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube**
50. Aasi, J., et al. 2014, PhRvD, 90, 062010: **First all-sky search for continuous gravitational waves from unknown sources in binary systems**
51. Accadia, T., et al. 2014, CQGra, 31, 165013: **Reconstruction of the gravitational wave signal $h(t)$ during the Virgo science runs and independent validation with a photon calibrator**
52. Aasi, J., et al. 2014, PhRvL, 113, 011102: **Search for Gravitational Waves Associated with γ -ray Bursts Detected by the Interplanetary Network**
53. Aasi, J., et al. 2014, PhRvD, 89, 122004: **Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors**
54. Aasi, J., et al. 2014, PhRvD, 89, 122003: **Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run**
55. Aasi, J., et al. 2014, CQGra, 31, 115004: **The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations**
56. Aasi, J., et al. 2014, PhRvD, 89, 102006: **Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005-2010**
57. Aasi, J., et al. 2014, PhRvL, 112, 131101: **Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors**
58. Aasi, J., et al. 2014, CQGra, 31, 085014: **Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run**
59. Aasi, J., et al. 2014, ApJ, 785, 119: **Gravitational Waves from Known Pulsars: Results from the Initial Detector Era**
60. Aasi, J., et al. 2014, ApJS, 211, 7: **First Searches for Optical Counterparts to Gravitational-wave Candidate Events**
61. Aasi, J., et al. 2013, PhRvD, 88, 102002: **Directed search for continuous gravitational waves from the Galactic center**
62. Aasi, J., et al. 2013, NaPho, 7, 613: **Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light**
63. Abadie, J., et al. 2012, ApJ, 755, 2: **Implications for the Origin of GRB 051103 from LIGO Observations**
64. Abadie, J., et al. 2011, PhRvL, 107, 261102: **Directional Limits on Persistent Gravitational Waves Using LIGO S5 Science Data**
65. Abadie, J., et al. 2011, ApJ, 737, 93: **Beating the Spin-down Limit on Gravitational Wave Emission from the Vela Pulsar**

66. Abadie, J., et al. 2011, PhRvD, 83, 042001: **Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar**
67. Abadie, J., et al. 2011, PhRvD, 83, 122005: **Search for gravitational waves from binary black hole inspiral, merger, and ringdown**
68. Abadie, J., et al. 2011, ApJ, 734, L35: **Search for Gravitational Wave Bursts from Six Magnetars**
69. Abadie, J., et al. 2011, PhRvD, 83, 042001: **Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar**
70. Abadie, J., et al. 2010, NIMPA, 624, 223: **Calibration of the LIGO gravitational wave detectors in the fifth science run**
71. Abadie, J., et al. 2010, PhRvD, 82, 102001: **Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1**
72. Abadie, J., et al. 2010, ApJ, 722, 1504: **First Search for Gravitational Waves from the Youngest Known Neutron Star**
73. Abadie, J., et al. 2010, CQGra, 27, 173001: **TOPICAL REVIEW: Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors**
74. Abadie, J., et al. 2010, ApJ, 715, 1453: **Search for Gravitational-wave Inspirational Signals Associated with Short Gamma-ray Bursts During LIGO's Fifth and Virgo's First Science Run**
75. Abbott, B. P., et al. 2010, ApJ, 715, 1438: **Search For Gravitational-wave Bursts Associated with Gamma-ray Bursts using Data from LIGO Science Run 5 and Virgo Science Run 1**
76. Abadie, J., et al. 2010, PhRvD, 81, 102001: **All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run**
77. Abbott, B. P., et al. 2010, ApJ, 713, 671: **Searches for Gravitational Waves from Known Pulsars with Science Run 5 LIGO Data**
78. Abbott, B. P., et al. 2009, PhRvD, 80, 102002: **Search for high frequency gravitational-wave bursts in the first calendar year of LIGO's fifth science run**
79. Abbott, B. P., et al. 2009, PhRvD, 80, 102001: **Search for gravitational-wave bursts in the first year of the fifth LIGO science run**
80. Abbott, B. P., et al. 2009, PhRvD, 80, 062002: **First LIGO search for gravitational wave bursts from cosmic (super)strings**
81. Abbott, B. P., et al. 2009, PhRvD, 80, 062001: **Search for gravitational wave ringdowns from perturbed black holes in LIGO S4 data**
82. Abbott, B. P., et al. 2009, PhRvD, 80, 047101: **Search for gravitational waves from low mass compact binary coalescence in 186 days of LIGO's fifth science run**
83. Abbott, B. P., et al. 2009, PhRvD, 80, 042003: **Einstein@Home search for periodic gravitational waves in early S5 LIGO data**
84. Abbott, B. P., et al. 2009, Natur, 460, 990: **An upper limit on the stochastic gravitational-wave background of cosmological origin**
85. Abbott, B. P., et al. 2009, ApJ, 701, L68: **Stacked Search for Gravitational Waves from the 2006 SGR 1900+14 Storm**
86. Abbott, B. P., et al. 2009, RPPH, 72, 076901: **LIGO: the Laser Interferometer Gravitational-wave Observatory**
87. Abbott, B., et al. 2009, NJPh, 11, 073032: **Observation of a kilogram-scale oscillator near its quantum ground state**
88. Abbott, B. P., et al. 2009, PhRvD, 79, 122001: **Search for gravitational waves from low mass binary coalescences in the first year of LIGO's S5 data**
89. Abbott, B. P., et al. 2009, PhRvL, 102, 111102: **All-Sky LIGO Search for Periodic Gravitational Waves in the Early Fifth-Science-Run Data**
90. Abbott, B., et al. 2009, PhRvD, 79, 022001: **Einstein@Home search for periodic gravitational waves in LIGO S4 data**

91. Abbott, B., et al. 2008, CQGra, 25, 245008: **First joint search for gravitational-wave bursts in LIGO and GEO 600 data**
92. Abbott, B., et al. 2008, PhRvL, 101, 211102: **Search for Gravitational-wave Bursts from Soft Gamma Repeaters**
93. Abbott, B., et al. 2008, ApJ, 683, L45: **Beating the Spin-Down Limit on Gravitational Wave Emission from the Crab Pulsar**
94. Abbott, B., et al. 2008, CQGra, 25, 114051: **Astrophysically triggered searches for gravitational waves: status and prospects**

NON-REFEREED PUBLICATIONS

1. Aasi, J., et al. 2017, yCat, JApJ/785/119: **VizieR Online Data Catalog: Gravitational waves from known pulsars (Aasi+, 2014)**
2. van der Sluys, M. 2011, ASPC, 447, 317: **Gravitational Waves from Compact Binaries**
3. Woods, T. E., Ivanova, N., van der Sluys, M., & Chaichenets, S. 2011, ASPC, 447, 127: **On The Formation of Double White Dwarfs: Reevaluating How We Parametrise the Common Envelope Phase**
4. Woods, T. E., Ivanova, N., van der Sluys, M., & Chaichenets, S. 2010, AIPC, 1314, 24: **The Formation of Low-Mass Double White Dwarfs through an Initial Phase of Stable Non-Conservative Mass Transfer**
5. van der Sluys, M., Politano, M., & Taam, R. E. 2010, AIPC, 1314, 13: **Masses and Envelope Binding Energies of Primary Stars at the Onset of a Common Envelope**
6. The LIGO Scientific Collaboration, et al. 2010, arXiv:1003.2481: **Sensitivity to Gravitational Waves from Compact Binary Coalescences Achieved during LIGO's Fifth and Virgo's First Science Run**
7. Nelemans, G., et al. 2009, astro, 2010, 221: **The astrophysics of ultra-compact binaries**
8. Michael Politano, R.E. Taam, M. van der Sluys and B. Willems, 2009, AAS 21343215: **Mergers During Common Envelope Evolution Involving a Giant Star and a Stellar or Substellar Companion**
9. M.V. van der Sluys, C. Röver, A. Stroeer, N. Christensen, V. Kalogera, R. Meyer, A. Vecchio and I. Mandel 2008, APS APRB10004: **Bayesian inference on spinning compact-binary inspirals with ground-based gravitational-wave laser interferometers**
10. M.V. van der Sluys, A. Stroeer, A. Vecchio and V. Kalogera 2006 AAS 209.7416: **Bayesian Inference and Observations of Massive Black-hole Binaries with LISA**
11. M.V. van der Sluys, F. Verbunt and O.R. Pols 2005, AIPC 797, 627, in *Interacting binaries: accretion, evolution, and outcomes*: **Creating ultra-compact binaries through stable mass transfer**

ONLINE PUBLICATIONS

These documents can be found at han.vandersluys.nl/pub, unless specified otherwise.

1. MvdS 2021: **Sunlight and solar energy** (MSc lecture notes)
2. MvdS 2020: **Writing a short scientific paper: \LaTeX template and instructions**
3. MvdS 2019: **Solar-concentration optics**
4. MvdS 2019: **A brief C tutorial, with code examples**
5. MvdS 2017: **Installing Arch Linux ARM on a Raspberry Pi**
6. MvdS 2017: **Getting started with Emacs**
7. MvdS 2017: **Operating systems and Linux system programming** (BSc Lecture notes)
8. MvdS 2016: **Efficient use of the Linux command line in the Bash shell**
9. MvdS 2015: **Errata NEN 5060 Hygrothermische eigenschappen van gebouwen – Referentieklimaatgegevens** (Errata on Dutch insolation norm)
10. MvdS 2015: **Availability of wind in the Netherlands** (HAN fact sheet)
11. MvdS 2015: **Insolation in the Netherlands** (HAN fact sheet)
12. MvdS 2013: **Celestial mechanics in a nutshell** (cmians.sf.net)

13. MvdS 2003: **Binary evolution in a nutshell** (www.astro.ru.nl/~sluys/?title=BEiaNS)

AUTHORED SCIENTIFIC SOFTWARE PACKAGES

Most of my free and open-source software (FOSS) has been released under the (L)GPL licence as source code and/or packages and can be found on the following websites:

GitHub	github.com/MarcvdSluys	Source code
SourceForce	sourceforge.net/u/marcvdsluys	Source code and packages
PyPI	pypi.org/user/MarcvdSluys	Python packages

The following list gives a selection of my most relevant, science-related software packages. See software.vandersluys.nl for more open-source projects.

1. LIBSUFR: a **library** containing **Some Useful Fortran Routines**, GPL, libsufr.sf.net (2002–2021).
2. LIBTHE SKY: a **library** to compute the positions of bodies in **The Sky** (Moon, planets, stars) and events (conjunctions, eclipses), GPL, libthesky.sf.net; core of the code that generates the popular-astronomy website hemel.waarnemen.com (2002–2021).
3. SOLTRACK: free, fast and accurate C/C++, Python and Arduino routines to compute the position of the Sun, (L)GPL, soltrack.sf.net (2014–2021).
4. SOLARENERGY: a Python package to do simple modelling in the field of solar energy, GPL, pypi.org/project/solarenergy (2020–2021).
5. METEOSERVER: a Python package to obtain and read Dutch weather data from Meteoserver.nl, GPL, pypi.org/project/meteoserver (2020–2021).
6. ASTROTOOL: a Python package for astronomical calculations, GPL, pypi.org/project/astrotool (2021).
7. PG2PLPLOT: aids the transition from Fortran code linked against PGPlot to linking it against PLplot, GPL, pg2plplot.sf.net (2013–2020).
8. HISTASTRO: a Python package for historical-astronomy calculations of Sun, Moon and planets, GPL, pypi.org/project/histastro (2019–2020).
9. ELP-MPP02: accurate Moon positions using the lunar solution ELP/MPP02 in Python, GPL, pypi.org/project/elp-mpp02 (2019).
10. ANALYSEMCMC: analyses and presents output from the MCMC codes SPINSPiRAL and LALINFERENCE_MCMC, GPL, analysemcmc.sf.net (2006–2017).
11. ASTROTOOLS: assorted command-line tools for astronomy and astrophysics, written in Fortran, GPL, astrotools.sf.net (2002–2016).
12. EVTOOLS: tools to reduce, analyse and present output from the binary stellar-evolution code ev, GPL, evtools.sf.net (2002–2015).
13. GWTOOL: simple command-line tools for working with gravitational waves, GPL, gwtool.sf.net (2007–2015).
14. ROCHEPLOT: schematically illustrate the key stages in the evolution of a binary star, several contributions, GPL, rocheplot.sf.net (2012–2015).
15. SPINSPiRAL: a parameter-estimation code to analyse gravitational-wave binary-inspiral signals detected with LIGO/Virgo, including spin effects, GPL, spinspiral.sf.net (2006–2013).
16. EV: also known as STARS, TWIN, or “The Eggleton code”: a detailed binary-stellar evolution code, several contributions, stars.vandersluys.nl (2005–2011).
17. LALINFERENCE_MCMC: parameter-estimation code using LAL to analyse GW binary-inspiral signals detected with LIGO/Virgo, several contributions, GPL, tiny.cc/lal (2010).

CONTRIBUTIONS TO CONFERENCES AND WORKSHOPS

1. April 15, 2013, *Third Bonn workshop on formation and evolution of neutron stars*, Bonn, Germany. Talk: **Measuring neutron-star properties with LIGO and Virgo**
2. August 16, 2012, *EuroWD12*, Krakow, Poland. Talk: **The formation of double white dwarfs**

3. June 25, 2012, *Virgo week 2012*, Pisa, Italy. Talk: **Using astrophysical knowledge in gravitational-wave data analysis of binary inspirals**
4. April 12, 2011, *NOVA Network-3 meeting*, Leiden, The Netherlands. Talk: **Using astrophysical knowledge in gravitational-wave data analysis of binary inspirals**
5. March 11, 2011, *The evolution of compact binaries*, Viña del Mar, Chile. Talk: **Using astrophysical knowledge in gravitational-wave data analysis of binary inspirals**
6. March 9, 2011, *The evolution of compact binaries*, Viña del Mar, Chile. Invited review: **Gravitational waves from compact binaries**
7. January 28, 2011, *GWPAW-15*, Milwaukee, WI, U.S.A. Talk: **Using astrophysical knowledge in gravitational-wave data analysis of binary inspirals**
8. November 5, 2010, *Dutch Physics Society (NVV)*, Lunteren, The Netherlands. Talk: **Using astrophysical knowledge in gravitational-wave data analysis**
9. June 22, 2010, *Binary star evolution: mass loss, accretion and mergers*, Mykonos, Greece. Talk: **Population synthesis of common-envelope mergers on the giant branches**
10. September 29, 2009, *Stellar Mergers workshop*, Leiden, the Netherlands. Talk: **The formation of single sdB stars through common-envelope mergers / Observing BH/NS mergers with LIGO/Virgo**
11. June 4, 2009, *LSC-Virgo meeting*, Orsay, France. Talk (on behalf of the CBC group): **Bayesian inference in the CBC follow-up pipeline**
12. March 17, 2009, *Wild Stars in the Old West II*, Tucson, Az, USA. Talk: **Magnetic capture and the CV formation channel for AM CVn stars**
13. January 19–22, 2009, *GWDAW-13*, San Juan, Puerto Rico. Poster: **Gravitational-wave astronomy using Markov-chain Monte-Carlo parameter estimation for compact binary inspirals with spinning objects**
14. September 20–25, 2008, *LSC-Virgo meeting*, Amsterdam, The Netherlands. Talk: **Dependence of sky-position degeneracies on the detector network and black-hole spin**
15. September 1–5, 2008, *2nd International Workshop on AM CVn stars*, Cape Town, S.A. Talk: **Formation of double white dwarfs and AM CVn stars**
16. June 10, 2008, *LIGO-Virgo meeting*, Orsay, France. Talk: **The effect of spin on the accuracy of parameter estimation of binary black-hole inspirals**
17. April 12, 2008, *American Physical Society Meeting*, St. Louis, Mo, USA. Talk: **Parameter estimation of spinning binary black-hole inspirals using MCMC**
18. March 15–20, 2008, *CBC F2F, LIGO-Virgo meeting, Caltech*, Pasadena, Ca, USA. Talk: **Parameter estimation of spinning binary black-hole inspirals using MCMC on LIGO data**
19. December 13–16, 2007, *GWDAW 12, MIT, Boston*, Boston, Ma, USA. Poster: **Parameter estimation of spinning binary inspirals using MCMC**
20. October 20–25, 2007, *CBC F2F, LIGO-Virgo meeting*, Hannover, Germany. Talk: **Bayesian follow-up in the CBC pipeline**
21. August 29 – 31, 2005: Workshop: *Modest 6*, Evanston, Il, USA. Poster: **Creating ultra-compact X-ray binaries in globular clusters**
22. July 4 – 8, 2005 *Workshop on AM CVn Stars*, Nijmegen, The Netherlands. Talk: **Modelling the evolution of double white-dwarf systems**
23. December 15 – 17, 2004: Workshop: *Modest 5a*, Edinburgh, Scotland. Talk: **Creating ultra-compact binaries in globular clusters through stable mass transfer**
24. July 4 – 10, 2004: Conference: *Interacting binaries*, Cefalù, Sicily, Italy. Poster: **Creating ultra-compact binaries through stable mass transfer**

SELECTED TALKS FOR COLLOQUIA, SEMINARS AND GROUP MEETINGS

1. March 21, 2012, Centro de Astrofísica, Universidad de Valparaíso, Chile, Astrophysics colloquium: **Compact binaries and gravitational waves**

2. March 20, 2012, ESO Vitacura office, Santiago, Chile, Astrophysics colloquium: **Compact binaries and gravitational waves**
3. May 12, 2010, Astronomical Institute/SRON, Utrecht University, Astrophysics Colloquium: **Gravitational-wave astronomy with LIGO and Virgo**
4. May 11, 2010, Astron, Dwingeloo, the Netherlands, Colloquium: **Population synthesis of common-envelope mergers on the giant branches**
5. May 4, 2010, Max Planck Institute for Astrophysics, Garching, Germany, Astrophysics seminar: **Population synthesis of common-envelope mergers on the giant branches**
6. May 3, 2010, Innsbruck University, Astrophysics colloquium: **Gravitational-wave astronomy with LIGO and Virgo**
7. April 29, 2010, Leiden Observatory, Leiden University, Astrophysics colloquium: **Gravitational-wave astronomy with LIGO and Virgo**
8. April 27, 2010, Department of astrophysics, Radboud Universiteit Nijmegen, Astrophysics seminar: **Gravitational-wave astronomy with LIGO and Virgo**
9. March 11, 2010, Canadian Institute for Theoretical Astrophysics, University of Toronto, CITA seminar: **Gravitational-wave astronomy with LIGO and Virgo**
10. March 3, 2010, Department of physics & astronomy, McMaster University, astrophysics seminar: **Population synthesis of common-envelope mergers on the giant branches**
11. January 11, 2010, Department of physics & astronomy, University of British Columbia, astrophysics colloquium: **Population synthesis of common-envelope mergers on the giant branches / Gravitational-wave astronomy with LIGO and Virgo**
12. March 27, 2008, Center for gravitational-wave physics, Penn State University, seminar: **Parameter estimation of spinning binary black-hole inspirals using MCMC**
13. October 19, 2007, University of Birmingham, Gravity group meeting: **The formation of ultra-compact binaries in globular clusters**
14. October 4, 2007, Northwestern University, Theoretical astrophysics group meeting: **Parameter estimation of spinning binary black-hole inspirals using MCMC**
15. October 19, 2006, Northwestern University, Theoretical astrophysics group meeting: **How the Giant lost its mantle and became a Dwarf**
16. October 7, 2004, Student Seminar, Utrecht University: **How not to create ultra-compact binaries in globular clusters**
17. December 4, 2003, Student Seminar, Utrecht University: **No double white dwarfs from stable mass transfer**
18. December 17, 2002, Astrophysical Seminar, University of Innsbruck: **Backward evolutionary calculations to explain double white dwarf systems**
19. March 27, 2002, Colloquium, University of Innsbruck: **The dynamics of the nebula M1-67 around the run-away Wolf-Rayet star WR 124**
20. August 27, 2001, Graduation Talk, Utrecht University: **A bowshock model for the run-away Wolf-Rayet star WR 124**

EDITOR OF CONFERENCE PROCEEDINGS

1. **International conference on binaries**, in celebration of Ron Webbink's 65th birthday, Mykonos, Greece, 22–25 June 2010. Editors: Vicky Kalogera and Marc van der Sluys. Melville, New York, 2010, AIP Conference Proceedings 1314.

POPULAR TALKS AND LECTURES SINCE 2009:¹

1. 26 March 2021, Public observing night, Radboud University Nijmegen: **The night sky this summer**

¹See hemel.waarnemen.com/lezingen/ for a more complete list of my ~ 145 public lectures

2. 26 February 2021, Public observing night, Radboud University Nijmegen:
The night sky in March
3. 29 January 2021, Public observing night, Radboud University Nijmegen:
The night sky in February
4. 12 February 2020, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
5. 17 October 2019, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
6. 5 October 2019, Space expo Noordwijk, Science week 2019:
Lecture: We are made of stardust!
7. 13 February 2019, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
8. 11 November 2018, InScience Film Festival 2018, Nijmegen:
Short lecture: Cielo, and our connection to the cosmos
9. 18 October 2018, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
10. 22 April 2018, Sonnenborgh – museum & observatory, Utrecht:
MuseumYouthUniversity: How can you 'hear' black holes?
11. 22 February 2018, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
12. 11 October 2017, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
13. 16 February 2017, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
14. 12 October 2016, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
15. 31 March 2016, HAN University of Applied Sciences, Arnhem:
Lunch lecture: GW 150914: the first detection of gravitational waves
16. 1 March 2016, HAN University of Applied Sciences, Arnhem:
Lunch lecture: GW 150914: the first detection of gravitational waves
17. 18 February 2016, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
18. 18 February 2016, Sonnenborgh – museum & observatory, Utrecht:
Short lecture: GW 150914: the first detection of gravitational waves
19. 15 October 2015, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
20. 15 March 2015, IMC Weekend school, Nijmegen:
Guest lecture: The Sun and sunlight
21. 18 February 2015, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
22. 11 January 2015, Sonnenborgh – museum & observatory, Utrecht:
Minicourse Astronomy
23. 28 November 2014, Public observing night, Radboud University Nijmegen:
Lecture: Stars, galaxies and gravitational waves
24. 28 November 2014, Public observing night, Radboud University Nijmegen:
Lecture: We are made of stardust!
25. 28 October 2014, Public observatory, Amsterdam:
Lecture: Compact binaries and gravitational waves in our universe

26. 9 October 2014, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
27. 13 March 2014, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
28. 16 October 2013, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
29. 5 October 2013, Flemish Astronomers Club, Blankenberge, Belgium:
Lecture: Compact binaries and gravitational waves in our universe
30. 22 March 2013, Public observing night, Radboud University Nijmegen:
Lecture: Stars, galaxies and gravitational waves
31. 22 March 2013, Public observing night, Radboud University Nijmegen:
Lecture: We are made of stardust!
32. 26 October 2012, Public observing night, Radboud University Nijmegen:
Lecture: Stars, galaxies and gravitational waves
33. 18 October 2012, Thales, Zwolle:
Lecture: Compact binaries and gravitational waves in our universe
34. 10 October 2012, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
35. 21 May 2012, Astra Alteria, Putten:
Lecture: Compact binaries and gravitational waves in our universe
36. 28 April 2012, Halley Observatory, Heesch:
Lecture: Compact binaries
37. 30 March 2012, Public observing night, Radboud University Nijmegen:
Lecture: The Sun
38. 16 February 2012, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
39. 27 January 2012, Public observing night, Radboud University Nijmegen:
Lecture: We are made of stardust!
40. 12 October 2011, Sonnenborgh – museum & observatory, Utrecht:
Course: The Sun
41. 15 June 2011, Dutch Astronomy Olympiad, Radboud University Nijmegen:
Lecture: Supernovae and supernova remnants
42. 8 April 2011, Students association Marie Curie, Radboud University Nijmegen:
Lecture: Compact binaries, explosives and gravitational waves in our universe
43. 12 October 2010 Wessel Knoop, Arnhem:
Lecture: Compact binaries and gravitational waves in our universe
44. 25 July 2009 Adler planetarium, Chicago:
Lecture: Gravitational waves with LIGO and Virgo
45. 16 July 2009 Adler planetarium, Chicago:
Lecture: Gravitational waves with LIGO and Virgo