

List of Publications

Journals*

1. Van Kerkwijk, M.H., van Oijen, J.G.J., van den Heuvel, E.P.J., 1989, "Extended optical spectroscopy of the massive companion of 4U1907+09," *A&A* 209, 173–182
2. Waters, L.B.F.M., van Kerkwijk, M.H., 1989, "The relation between orbital and spin periods in massive X-ray binaries," *A&A* 223, 196–206
3. Baade, D., Schmutz, W., van Kerkwijk, M.H., 1990, "Short-term activity in the γ^2 Velorum system: the O-type supergiant is a nonradially pulsating star," *A&A* 240, 105–115
4. Wijers, R.A.M.J., van den Heuvel, E.P.J., van Kerkwijk, M.H., Bhattacharya, D., 1992, "Genesis of a pulsar's planets," *Nature* 355, 593
5. Van Kerkwijk, M.H., Charles, P.A., Geballe, T.R., King, D.L., Miley, G.K., Molnar, L.A., van den Heuvel, E.P.J., van der Klis, M., van Paradijs, J., 1992, "Infrared helium emission lines from Cygnus X-3 suggesting a Wolf-Rayet star companion," *Nature* 355, 703–705
6. Meurs, E.J.A., Pitters, A.J.M., Pols, O.R., Waters, L.B.F.M., Coté, J., van Kerkwijk, M.H., van Paradijs, J., Burki, G., Taylor, A.R., de Martino, D., 1992, "ROSAT survey observations of OB and OBe stars," *A&A* 265, L41–L44
7. Augusteijn, T., van Kerkwijk, M.H., van Paradijs, J., 1992, "A 59^m photometric period in the dwarf nova V485 Centauri," *A&A* 267, L55–L58
8. Vermeulen, R.C., Murdin, P.G., van den Heuvel, E.P.J., Fabrika, S.N., Wagner, R.M., Margon, B.H., Hutchings, J.B., Schilizzi, R.T., van Kerkwijk, M.H., van den Hoek, L.B., Ott, E., Angebault, L.P., Miley, G.K., D'Odorico, S., Borisov, N., 1992, "Monitoring of very rapid changes in the optical spectrum of SS 433 in May/June 1987," *A&A* 270, 204–222
9. Dougherty, S.M., Cramer, N., van Kerkwijk, M.H., Taylor, A.R., Waters, L.B.F.M., 1993, "Intrinsic IR colours of normal B-type stars using the Geneva visual and ESO IR photometric systems," *A&A* 273, 503–508
10. Coté, J., van Kerkwijk, M.H., 1993, "New Be stars and the Be star frequency," *A&A* 274, 870–876
11. Van Kerkwijk, M.H., 1993, "Spectroscopic and photometric variability of Cygnus X-3," *A&A* 276, L9–L12
12. Dougherty, S.M., Waters, L.B.F.M., Burki, G., Coté, J., Cramer, N., van Kerkwijk, M.H., Taylor, A.R., 1994, "Near-IR excess of Be stars," *A&A* 290, 609–622
13. Kulkarni, S.R., Matthews, K.Y., Neugebauer, G., Reid, I.N., van Kerkwijk, M.H., Vasisht, G., 1995, "Optical and infrared observations of SGR 1806–20," *ApJ* 440, L61–L64
14. Van Kerkwijk, M.H., Kulkarni, S.R., Matthews, K.Y., Neugebauer, G., 1995, "A luminous companion to SGR 1806–20," *ApJ* 444, L33–L35
15. Johnston, S., Walker, M.A., van Kerkwijk, M.H., Lyne, A.G., D'Amico, N., 1995, "A 1500 MHz survey of the Galactic centre for pulsars," *MNRAS* 274, L43–L45
16. Van Kerkwijk, M.H., Waters, L.B.F.M., Marlborough, J.M., 1995, "H α emission and infrared excess in Be stars: probing the circumstellar disc," *A&A* 300, 259–268
17. Van Kerkwijk, M.H., Kulkarni, S.R., 1995, "Spectroscopy of the white-dwarf companions of PSR 0655+64 and 0820+02," *ApJ* 454, L141–L144
18. Van Kerkwijk, M.H., van Paradijs, J., Zuiderwijk, E.J., Hammerschlag-Hensberge, G., Kaper, L., Sterken, C.S., 1995, "Spectroscopy of HD 77581 and the mass of Vela X-1," *A&A* 303, 483–496
19. Van Kerkwijk, M.H., van Paradijs, J., Zuiderwijk, E.J., 1995, "On the masses of neutron stars," *A&A* 303, 497–501
20. Groenewegen, M.A.T., Oudmaijer, R.D., Goudfrooij, P., van den Hoek, L.B., van Kerkwijk, M.H., 1996, "On the nature of AFGL 2477," *A&A* 305, 475–480
21. Van Kerkwijk, M.H., Bergeron, P., Kulkarni, S.R., 1996, "The masses of the millisecond pulsar J1012+5307 and its white-dwarf companion," *ApJ* 467, L89–L92
22. Vrba, F.J., Luginbuhl, C.B., Hurley, K.H., Kulkarni, S.R., van Kerkwijk, M.H., Hartmann, D.H., Campusano, L.E., Graham, M., Clowes, R., Kouveliotou, C., Probst, R., Gatley, I., Merrill, M., Joyce, R., Mendez, R., Smith, I., Schultz, A., 1996, "The double infrared source towards the soft gamma-ray repeater SGR 1900+14," *ApJ* 468, 225–230
23. Ray, P.S., Thorsett, S.E., Jenet, F.A., van Kerkwijk, M.H., Kulkarni, S.R., Prince, T.A., Sandhu, J.S., Nice, D.J., 1996, "A survey for millisecond pulsars," *ApJ* 470, 1103–1110
24. Van Kerkwijk, M.H., Geballe, T.R., King, D.L., van den Heuvel, E.P.J., van der Klis, M., van Paradijs, J., 1996, "The Wolf-Rayet counterpart of Cygnus X-3," *A&A* 314, 521–540
25. Bandyopadhyay, R., Shahbaz, T., Charles, P.A., van Kerkwijk, M.H., Naylor, T., 1997, "Infrared spectroscopy of low-mass X-ray binaries," *MNRAS* 285, 718–724
26. Augusteijn, T., van der Hooft, F., de Jong, J.A., van Kerkwijk, M.H., van Paradijs, J., 1998, "Phase-resolved spectroscopy of the low-mass X-ray binaries 1636–536/V 801 Ara and 1735–444/V 926 Sco," *A&A* 332, 561–568
27. Chakrabarty, D., van Kerkwijk, M.H., Larkin, J.E., 1998, "Infrared spectroscopy of GX 1+4/V2116 Oph: evidence for a fast red giant wind?," *ApJ* 497, L39–L42
28. Van Kerkwijk, M.H., Chakrabarty, D., Pringle, J.E., Wijers, R.A.M.J., 1998, "Warped disks as a possible origin of

* Publishers of the journals are:

A&A (Astronomy and Astrophysics): Springer Verlag, Heidelberg (before 2001); EDP Sciences, Les Ulis (after 2001);
AJ (Astronomical Journal): Univ. of Chicago Press, Chicago (before 2008); Institute of Physics Publishing, Bristol (after 2008);
ApJ (Astrophysical Journal): Univ. of Chicago Press, Chicago (before 2009); Institute of Physics Publishing, Bristol (after 2009);
MNRAS (Monthly Notices of the Royal Astronomical Society): Blackwell Science, Oxford;
Nature: McMillan Magazines, London;
Science: AAAS, Washington

- torque reversals in accretion-powered pulsars,” *ApJ* 499, L27–L30
29. Oppenheimer, B.R., Kulkarni, S.R., Matthews, K., van Kerkwijk, M.H., 1998, “The spectrum of the brown dwarf Gliese 229B,” *ApJ* 502, 932–943
 30. Kulkarni, S.R., van Kerkwijk, M.H., 1998, “Optical observations of the isolated neutron star RX J0720.4–3125,” *ApJ* 507, L49–L53
 31. Stappers, B.W., van Kerkwijk, M.H., Lane, B.F., Kulkarni, S.R., 1998, “The light curve of the companion to PSR J2051–0827,” *ApJ* 510, L45–L48
 32. Van Kerkwijk, M.H., Kulkarni, S.R., 1999, “A massive white dwarf companion to the eccentric binary pulsar system PSR B2303+46,” *ApJ* 516, L25–L28
 33. In ’t Zand, J.J.M., Verbunt, F., Strohmayer, T.E., Bazzano, A., Cocchi, M., Heise, J., van Kerkwijk, M.H., Muller, J.M., Natalucci, L., Smith, M.J.S., Ubertini, P., 1999, “A new X-ray outburst in the globular cluster NGC 6440: SAX J1748.9–2021,” *A&A* 345, 100–108
 34. Van Kerkwijk, M.H., Kaspi, V.M., Klemola, A.R., Kulkarni, S.R., Lyne, A.G., Van Buren, D., 2000, “Optical observations of the binary pulsar system PSR B1718–19: implications for tidal circularization,” *ApJ* 529, 428–434
 35. Van Kerkwijk, M.H., Bell, J.F., Kaspi, V.M., Kulkarni, S.R., 2000, “The temperature and cooling age of the white-dwarf companion to the millisecond pulsar PSR B1855+09,” *ApJ* 530, L37–L40
 36. Van Kerkwijk, M.H., Clemens, J.C., Wu, Y., 2000, “Surface motion in the pulsating DA white dwarf G 29-38,” *MNRAS* 314, 209–219
 37. Clemens, J.C., van Kerkwijk, M.H., Wu, Y., 2000, “Mode identification from time resolved spectroscopy of the pulsating white dwarf G 29-38,” *MNRAS* 314, 220–228
 38. Hulleman, F., van Kerkwijk, M.H., Verbunt, F.W.M., Kulkarni, S.R., 2000, “A deep search for the optical counterpart to the anomalous X-ray pulsar 1E 2259+586,” *A&A* 358, 605–611
 39. Verbunt, F., van Kerkwijk, M.H., in ’t Zand, J.J.M., Heise, J., 2000, “X-ray and optical follow-up observations of the August 1998 transient in NGC 6440,” *A&A* 359, 960–966
 40. Hulleman, F., van Kerkwijk, M.H., Kulkarni, S.R., 2000, “An optical counterpart to the anomalous X-ray pulsar 4U 0142+61,” *Nature* 408, 689–692
 41. Stappers, B.W., Van Kerkwijk, M.H., Bell, J.F., Kulkarni, S.R., 2001, “Intrinsic and reprocessed optical emission from the companion to PSR J2051–0827,” *ApJ* 548, L183–L186
 42. Kaplan, D.L., Kulkarni, S.R., van Kerkwijk, M.H., Rothschild, R.E., Lingenfelter, R.L., Marsden, D., Danner, R., Murakami, T., 2001, “HST observations of SGR 0526–66: new constraints on accretion and magnetar models,” *ApJ* 556, 399–407
 43. Augusteijn, T., Kuulkers, E., van Kerkwijk, M.H., 2001, “The IR counterpart of the black-hole candidate 4U 1630 – 47,” *A&A* 375, 447–454
 44. Barziv, O., Kaper, L., van Kerkwijk, M.H., Telting, J., van Paradijs, J., 2001, “The mass of the neutron star in Vela X-1,” *A&A* 377, 925–944
 45. Van Kerkwijk, M.H., Kulkarni, S.R., 2001, “Optical spectroscopy and photometry of the neutron star RX J1856.5–3754,” *A&A* 378, 986–995
 46. In ’t Zand, J.J.M., van Kerkwijk, M.H., Pooley, D., Verbunt, F., Lewin, W.H.G., Wijnands, R., 2001, “Identification of the optical and quiescent counterparts to the bright X-ray transient in NGC 6440,” *ApJ* 563, L41–L44
 47. Hulleman, F., Tennant, A.F., van Kerkwijk, M.H., Kulkarni, S.R., Kouveliotou, C., Patel, S.K., 2001, “A possible faint near-infrared counterpart to the anomalous X-ray pulsar 1E 2259+58.6,” *ApJ* 563, L49–L52
 48. Van Kerkwijk, M.H., Kulkarni, S.R., 2001, “An unusual H α nebula around the nearby neutron star RX J1856.5–3754,” *A&A* 380, 221–237
 49. Kuulkers, E., in ’t Zand, J.J.M., van Kerkwijk, M.H., Cornelisse, R., Smith, D.A., Heise, J., Bazzano, A., Cocchi, M., Natalucci, L., Ubertini, P., 2002, “A half-a-day long thermonuclear X-ray burst from KS 1731–260,” *A&A* 382, 503–512
 50. Kaplan, D.L., Kulkarni, S.R., Frail, D.A., van Kerkwijk, M.H., 2002, “Deep radio, optical, and infrared observations of SGR 1900+14,” *ApJ* 566, 378–386
 51. Kaplan, D.L., Kulkarni, S.R., van Kerkwijk, M.H., Marshall, H.L., 2002, “X-ray timing of the enigmatic neutron star RX J0720.4–3125” *ApJ* 570, L79–L83
 52. Kaplan, D.L., van Kerkwijk, M.H., Anderson, J., 2002, “The parallax and proper motion of RX J1856.5–3754 revisited,” *ApJ* 571, 447–457
 53. Kotak, R., van Kerkwijk, M.H., Clemens, J.C., 2002, “Time-resolved optical spectroscopy of the pulsating DA white dwarf HS 0507+0434B,” *A&A* 388, 219–234
 54. Kotak, R., van Kerkwijk, M.H., Clemens, J.C., Bida, T., 2002, “Pulsating or not? A search for hidden pulsations below the red edge of the ZZ Ceti instability strip,” *A&A* 391, 1005–1012
 55. Kaplan, D.L., Kulkarni, S.R., van Kerkwijk, M.H., 2002, “A probable optical counterpart for the isolated neutron star RX J1308.6+2127,” *ApJ* 579, L29–L32
 56. Orosz, J.A., van Kerkwijk, M.H., 2003, “The eclipsing millisecond pulsar PSR J1740–5340 and its red straggler companion,” *A&A* 397, 237–247
 57. Kotak, R., van Kerkwijk, M.H., Clemens, J.C., Koester, D., 2003, “A new look at the pulsating DB white dwarf GD 385: Line-of-sight velocity measurements and constraints on model atmospheres,” *A&A* 397, 1043–1055
 58. Kaplan, D.L., Kulkarni, S.R., van Kerkwijk, M.H., 2003, “The optical counterpart of the isolated neutron star RX J1605.3+3249,” *ApJ* 588, L33–L36
 59. Thompson, S.E., Clemens, J.C., van Kerkwijk, M.H., Koester, D., 2003, “High-resolution spectroscopy of the pulsating white dwarf G 29-38,” *ApJ* 589, 921–930
 60. Bassa, C.G., van Kerkwijk, M.H., Kulkarni, S.R., 2003, “Temperature and cooling age of the white dwarf companion of PSR J0218+4232,” *A&A* 403, 1067–1075

61. Kaplan, D.L., van Kerkwijk, M.H., Marshall, H.L., Jacoby, B.A., Kulkarni, S.R., Frail, D.A., 2003, "The nearby neutron star RX J0720.4–3125 from radio to X-rays," *ApJ* 590, 1008–1019
62. Hammerschlag-Hensberge, G., van Kerkwijk, M.H., Kaper, L., 2003, "The radial velocity curve of HD153919 (4U1700-37) revisited," *A&A* 407, 685–690
63. Bassa, C.G., Verbunt, F., van Kerkwijk, M.H., Homer, L., 2003, "Optical identification of the companion to PSR J1911-5958A, the pulsar binary in the outskirts of NGC 6752," *A&A* 409, L31–L34
64. Jacoby, B.A., Bailes, M., van Kerkwijk, M.H., Ord, S., Hotan, A., Kulkarni, S.R., Anderson, S.B., 2003, "PSR J1909–3744, a binary millisecond pulsar with a very small duty cycle," *ApJ* 599, L99–L102
65. Kotak, R., van Kerkwijk, M.H., Clemens, J.C., 2004, "A puzzling periodicity in the pulsating DA white dwarf G 117-B15A," *A&A* 413, 301–308
66. Hulleman, F., van Kerkwijk, M.H., Kulkarni, S.R., 2004, "The Anomalous X-ray Pulsar 4U 0142+61: variability in the infrared and a spectral break in the optical," *A&A* 416, 1037–1045
67. Van Kerkwijk, M.H., Kaplan, D.L., Durant, M., Kulkarni, S.R., Paerels, F., 2004, "A strong, broad absorption feature in the X-ray spectrum of the nearby neutron star RX J1605.3+3249," *ApJ* 608, 432–443
68. Thompson, S.E., Clemens, J.C., van Kerkwijk, M.H., O'Brien, M.S., Koester, D., 2004, "The peculiar pulsations of PY Vul," *ApJ* 610, 1001–1012
69. Tam, C.R., Kaspi, V.M., van Kerkwijk, M.H., Durant, M., 2004, "Correlated infrared and X-ray flux changes following the 2002 June outburst of the Anomalous X-ray Pulsar 1E 2259+586," *ApJ* 617, L53–L56
70. Durant, M., van Kerkwijk, M.H., 2005, "The broad-band spectrum and infrared variability of the magnetar AXP 1E 1048.1–5937," *ApJ* 627, 376–382
71. Krauss, M.L., Wang, Z., Dullighan, A., Juett, A.M., Kaplan, D.L., Chakrabarty, D., van Kerkwijk, M.H., Steeghs, D., Jonker, P.G., Markwardt, C.B., 2005, "The X-ray position and optical counterpart of the accretion-powered millisecond pulsar XTE J1814–338," *ApJ* 627, 910–914
72. Kaplan, D.L., van Kerkwijk, M.H., 2005, "A coherent timing solution for the nearby isolated neutron star RX J0720.4–3125," *ApJ* 628, L45–L48
73. Durant, M., van Kerkwijk, M.H., 2005, "Possible optical detection of the Anomalous X-ray Pulsar CXOU J010043.1–721134," *ApJ* 628, L135–L138
74. Janssen, T., van Kerkwijk, M.H., 2005, "Observations of the companion to the pulsar PSR B1718–19: the role of tidal circularisation," *A&A* 439, 433–441
75. Dhillon, V.S., Marsh, T.R., Hulleman, F., van Kerkwijk, M.H., Shearer, A., Littlefair, S.P., Gavriil, F.P., Kaspi, V.M., 2005, "High-speed, multi-colour optical photometry of the anomalous X-ray pulsar 4U 0142+61 with ULTRACAM," *MNRAS* 363, 609–614
76. Kaplan, D.L., van Kerkwijk, M.H., 2005, "A coherent timing solution for the nearby isolated neutron star RX J1308.5+2127/RBS 1223," *ApJ* 635, L65–L68
77. Jacoby, B.A., Chakrabarty, D., van Kerkwijk, M.H., Kulkarni, S.R., Kaplan, D.L., 2006, "Optical detection of two intermediate mass binary pulsar companions," *ApJ* 640, L183–L186
78. Bassa, C.G., van Kerkwijk, M.H., Kulkarni, S.R., 2006, "The ultra-cool white dwarf companion of PSR J0751+1807," *A&A* 450, 295–303
79. D'Angelo, C., van Kerkwijk, M.H., Rucinski, S.M., 2006, "Contact binaries with additional components. II. A spectroscopic search for faint tertiaries," *AJ* 132, 650–662
80. Bassa, C.G., van Kerkwijk, M.H., Koester, D., Verbunt, F., 2006, "The masses of PSR J1911–5958A and its white dwarf companion," *A&A* 456, 295–304
81. Durant, M., van Kerkwijk, M.H., 2006, "The infrared counterpart to the magnetar 1RXS J170849.0–400910," *ApJ* 648, 534–540
82. Jayawardhana, R., Coffey, J., Scholz, A., Brandeker, A., van Kerkwijk, M.H., 2006, "Accretion disks around young stars: lifetimes, disk locking and variability," *ApJ* 648, 1206–1218
83. Durant, M., van Kerkwijk, M.H., 2006, "Extinction columns and intrinsic X-ray spectra of the Anomalous X-ray Pulsars," *ApJ* 650, 1082–1090
84. Durant, M., van Kerkwijk, M.H., 2006, "Distances to Anomalous X-ray Pulsars using red clump stars," *ApJ* 650, 1070–1081
85. Durant, M., van Kerkwijk, M.H., 2006, "Multi-wavelength variability of the magnetar 4U 0142+61," *ApJ* 652, 576–583
86. Van Kerkwijk, M.H., Kaplan, D.L., Pavlov, G.G., Mori, K., 2007, "Spectral and rotational changes in the isolated neutron star RX J0720.4–3125," *ApJ* 659, L149–L152
87. Kaplan, D.L., van Kerkwijk, M.H., Anderson, J., 2007, "The distance to the isolated neutron star RX J0720.4–3125," *ApJ* 660, 1428–1443
88. Helfand, D.J., Chatterjee, S., Brisken, W., Camilo, F., Reynolds, J., van Kerkwijk, M.H., Halpern, J.P., Ransom, S.M., 2007, "VLBA measurements of the transverse velocity of the magnetar XTE J1810–197," *ApJ* 662, 1198–1203
89. Van der Meer, A., Kaper, L., van Kerkwijk, M.H., Heemskerk, M.H.M., van den Heuvel, E.P.J., 2007, "Determination of the mass of the neutron star in SMC X-1, LMC X-4 and Cen X-3 with VLT/UVES," *A&A* 473, 523–538
90. Camilo, F., Ransom, S.M., Penalver, J., Karastergiou, A., van Kerkwijk, M.H., Durant, M., Halpern, J.P., Reynolds, J., Thum, C., Helfand, D.J., Zimmerman, N., Cognard, I., 2007, "The variable radio-to-X-ray spectrum of the magnetar XTE J1810–197," *ApJ* 669, 561–569
91. Rucinski, S.M., Pribulla, T., van Kerkwijk, M.H., 2007, "Contact binaries with additional components. III. A search using adaptive optics," *AJ* 134, 2353–2365
92. Damjanov, I., Jayawardhana, R., Scholz, A., Ahmic, M., Nguyen, D.C., Brandeker, A., van Kerkwijk, M.H.,

- 2007, “A comprehensive view of circumstellar disks in Chameleon I: infrared excess, accretion signatures, and binarity,” *ApJ* 670, 1337–1346
93. Ahmic, M., Jayawardhana, R., Brandeker, A., Scholz, A., van Kerkwijk, M.H., Delgado-Donate, E., Froebrich, D., 2007, “Multiplicity among young brown dwarfs and very low mass stars,” *ApJ* 671, 2074–2081
94. Van Kerkwijk, M.H., Kaplan, D.L., 2008, “Timing the Nearby Isolated Neutron Star RX J1856.5–3754,” *ApJ* 673, L163–L166
95. Durant, M., van Kerkwijk, M.H., 2008, “A search for the optical counterpart to the magnetar CXOU J010043.1–721134,” *ApJ* 680, 1394–1397
96. Van Kerkwijk, M.H., Ingle, A., 2008, “Reconstructing the Guitar: blowing bubbles with a pulsar bow shock back flow,” *ApJ* 683, L159–L162
97. Lafrenière, D., Jayawardhana, R., Brandeker, A., Ahmic, M., van Kerkwijk, M.H., 2008, “A multiplicity census of young stars in Chamaeleon I,” *ApJ* 683, 844–861
98. Thompson, S.E., Clemens, J.C., van Kerkwijk, M.H., 2008, “Deciphering the pulsations of G 29-38 with optical time series spectroscopy,” *MNRAS* 389, 93–101
99. Mentuch, E., Brandeker, A., van Kerkwijk, M.H., Jayawardhana, R., Hauschildt, P.H., 2008, “Lithium depletion of young stellar associations,” *ApJ* 689, 1127–1140
100. Lafrenière, D., Jayawardhana, R., van Kerkwijk, M.H., 2008, “Direct imaging and spectroscopy of a planetary mass candidate companion to a young solar analog,” *ApJ* 689, L153–L156
101. Kaplan, D.L., van Kerkwijk, M.H., 2009, “Constraining the spin-down of the nearby isolated neutron star RX J2143.0+0654,” *ApJ* 682, L62–L66
102. Nguyen, D.C., Scholz, A., Jayawardhana, R., Brandeker, A., van Kerkwijk, M.H., 2009, “How variable is accretion in young stars?” *ApJ* 694, L153–L157
103. Nguyen, D.C., Jayawardhana, R., van Kerkwijk, M.H., Brandeker, A., Scholz, A., Damjanov, I., 2009, “Disk-braking in young stars: probing rotation in Chamaeleon I and Taurus-Auriga,” *ApJ* 695, 1648–1656
104. Kaplan, D.L., van Kerkwijk, M.H., 2009, “Constraining the spin-down of the nearby isolated neutron star RX J0806.4–4123, and implications for the population of nearby neutron stars,” *ApJ* 705, 798–808
105. Rivera-Ingraham, A., van Kerkwijk, M.H., 2010, “Extinction and distance to Anomalous X-ray Pulsars from X-ray scattering halos,” *ApJ* 710, 797–803
106. Van Kerkwijk, M.H., Rappaport, S.A., Breton, R.P., Justham, S., Podsiadlowski, P., Han, Z., 2010, “Observations of Doppler boosting in Kepler light curves,” *ApJ* 715, 51–58
107. Lafrenière, D., Jayawardhana, R., van Kerkwijk, M.H., 2010, “The directly imaged planet around the young solar analog 1RXS J160929.1-210524: confirmation of common proper motion, temperature and mass,” *ApJ* 719, 497–504
108. Kulkarni, S.R., van Kerkwijk, M.H., 2010, “The (Double) White Dwarf Binary SDSS 1257+5428,” *ApJ* 719, 1123–1131
109. Bhalerao, V.B., van Kerkwijk, M.H., Harrison, F.A., Kasliwal, M.M., Kulkarni, S.R., Rana, V.R., 2010, “The polar Catalysmic Variable 1RXS J173006.4+033813,” *ApJ* 721, 412–423
110. Van Kerkwijk, M.H., Chang, P., Justham, S., 2010, “Sub-Chandrasekhar white dwarf mergers as the progenitors of type Ia Supernovae,” *ApJ* 722, L157–L161
111. Anderson, G.E., Gaensler, B.M., Kaplan, D.L., Posselt, B., Slane, P.O., Murray, S.S., Mauerhan, J.C., Benjamin, R.A., Brogan, C.L., Chakrabarty, D., Drake, J.J., Drew, J.E., Grindlay, J.E., Hong, J., Lazio, T.J.W., Lee, J.C., Steeghs, D.T.H., van Kerkwijk, M.H., 2010, “Identification of a population of X-ray emitting massive stars in the Galactic plane,” *ApJ* 727:105 (12pp)
112. Van Kerkwijk, M.H., Breton, R., Kulkarni, S.R., 2011, “Evidence for a massive neutron star from a radial-velocity study of the companion to the black widow pulsar PSR B1957+20,” *ApJ* 728:95 (8pp)
113. Kaplan, D.L., Kamble, A., van Kerkwijk, M.H., Ho, W.C.G., 2011, “New optical/UV counterparts and the spectral energy distributions of nearby, thermally emitting, isolated neutron stars,” *ApJ* 736:117 (11pp)
114. Kaplan, D.L., van Kerkwijk, M.H., 2011, “A coherent timing solution for the nearby, thermally emitting isolated neutron star RX J0420.0–5022,” *ApJ* 740:L30 (5pp)
115. Speagle, J.S., Kaplan, D.L., van Kerkwijk, M.H., 2011, “The X-ray counterpart of the high-B pulsar PSR J0726–2612,” *ApJ* 743:183 (7pp)
116. Nguyen, D.C., Brandeker, A., van Kerkwijk, M.H., Jayawardhana, R., 2011, “Close companions to young stars. I. A large spectroscopic survey in Chamaeleon I and Taurus-Auriga,” *ApJ* 745:119 (25pp; erratum in *ApJ* 749:94)
117. Durant, M., Kargaltsev, O., Pavlov, G.G., Kowalski, P.M., Posselt, B., van Kerkwijk, M.H., Kaplan, D.L., 2011, “The spectrum of the recycled pulsar PSR J0437–4715 and its white dwarf companion,” *ApJ* 746:6 (19pp)
118. Breton, R.P., Rappaport, S.A., van Kerkwijk, M.H., Carter, J.A., 2011, “KOI 1224, A Fourth Bloated Hot White Dwarf Companion Found With Kepler,” *ApJ* 748:115 (13pp)
119. Antoniadis, J., van Kerkwijk, M.H., Koester, D., Freire, P.C.C., Wex, N., Tauris, T.M., Kramer, M., Bassa, C.G., 2012, “The relativistic pulsar-white dwarf binary PSR J1738+0333. I. Mass determination and evolutionary history,” *MNRAS* 423, 3316–3327
120. Bhalerao, V.B., van Kerkwijk, M.H., Harrison, F., 2012, “Constraints on the compact object mass in the eclipsing HMXB XMMU J013236.7+303228,” *ApJ* 757:10 (11pp)
121. Badenes, C., van Kerkwijk, M.H., Kilic, M., Bickerton, S.J., Mazeh, T., Mullanly, F., Tal-Or, L., Thompson, S.E., 2012, “SDSS 1355+0856: A detached white dwarf + M star binary in the period gap discovered by the SWARMS survey,” *MNRAS* 429, 3596–3603

122. Kaplan, D.L., Bhallerao, V.B., van Kerkwijk, M.H., Koester, D., Kulkarni, S.R., Stovall, K., 2013, “A metal-rich low-gravity companion to a massive millisecond pulsar,” *ApJ* 765:158 (8pp)
123. Zhu, C., Chang, P., van Kerkwijk, M.H., Wadsley, J., 2013, “A parameter space study of carbon-oxygen white dwarf mergers,” *ApJ* 767:164 (32pp)
124. Antoniadis, J., Freire, P.C.C., Wex, N., Tauris, T.M., Lynch, R.S., van Kerkwijk, M.H., Kramer, M., Bassa, C.G., Dhillon, V.S., Driebe, T., Hessels, J.W.T., Kaspi, V.M., Kondratiev, V.I., Langer, N., Marsh, T.R., McLaughlin, M.A., Pennucci, T.T., Ransom, S.M., Stairs, I.H., van Leeuwen, J., Verbiest, J.P.W., Whelan, D.G., 2013, “A massive pulsar in a compact relativistic binary,” *Science* 340:1233232 (9pp + 37pp supp.)
125. Breton, R.P., van Kerkwijk, M.H., Roberts, M.S.E., Hessels, J.W.T., Camilo, F., McLaughlin, M.A., Ransom, S.M., Ray, P.S., Stairs, I.H., 2013, “Discovery of the optical counterparts to four energetic *Fermi* millisecond pulsars,” *ApJ* 769:108 (11pp)
126. Lepo, K., van Kerkwijk, M.H., 2013, “Rapidly accreting white dwarfs as supernova type Ia progenitors,” *ApJ* 771:13 (11pp)
127. Ransom, S.M., Stairs, I.H., Archibald, A.M., Hessels, J.W.T., Kaplan, D.L., van Kerkwijk, M.H., Boyles, J., Deller, A.T., Chatterjee, S., Schechtman-Rook, A., Berndsen, A., Lynch, R.S., Lorimer, D.R., Karako-Argaman, C., Kaspi, V.M., Kondratiev, V.I., McLaughlin, M.A., van Leeuwen, J., Rosen, R., Roberts, M.S.E., Stovall, K., 2014, “A millisecond pulsar in a stellar triple system,” *Nature* 505, 520–524
128. Kaplan, D.L., van Kerkwijk, M.H., Koester, D., Stairs, I.H., Ransom, S.N., Archibald, A.M., Hessels, J.W.T., Boyles, J., 2014, “Spectroscopy of the inner companion of the pulsar PSR J0337+1715,” *ApJ* 783, L23 (6pp)
129. Lafrenière, D., Jayawardhana, R., van Kerkwijk, M.H., Brandeker, A., Janson, M., 2014, “An Adaptive Optics Multiplicity Census of Young Stars in Upper Scorpius,” *ApJ* 785:47 (18pp)
130. Anderson, G.E., Gaensler, B.M., Kaplan, D.L., Slane, P.O., Munro, M.P., Posselt, B., Hong, J., Murray, S.S., Steeghs, D.T.H., Brogan, C.L., Drake, J.J., Farrell, S.A., Benjamin, R.A., Chakrabarty, D., Drew, J.E., Finley, J.P., Grindlay, G.E., Lazio, T.J.W., Lee, J.C., Mauerhan, J.C., van Kerkwijk, M.H., 2013, “Chasing the identification of ASCA Galactic objects (ChIcAGO) - An X-ray survey of unidentified sources in the Galactic plane. I: Source sample and initial results,” *ApJS* 212:13 (35pp)
131. Zhu, C., Pakmor, R., van Kerkwijk, M.H., Chang, P., 2015, “Magnetized moving mesh merger of a carbon-oxygen white dwarf binary,” *ApJ* 806:L1 (5pp)
132. Rangelov, B., Pavlov, G.G., Kargaltsev, O., Reisenegger, A., Guillot, S., van Kerkwijk, M.H., Reyes, C., 2017, “Hubble Space Telescope Detection of the Millisecond Pulsar J2124–3358 and its Far-ultraviolet Bow Shock Nebula,” *ApJ*, 835:264 (8pp)
133. Main, R., van Kerkwijk, M.H., Pen, U.-L., Mahajan, N., Vanderlinde, K., 2017, “Descattering of Giant Pulses in PSR B1957+20,” *ApJ* 840:L15 (6pp)
134. Heringer, E., van Kerkwijk, M.H., Sim, S.A., Kerzendorf, W.E., 2017, “Spectral sequences of Type Ia supernovae. I. Connecting normal and sub-luminous SN Ia and the presence of unburned carbon,” *ApJ* 846:15 (8pp)
135. Main, R., Yang, I.-S., Chan, V., Li, D., Lin, F.X., Mahajan, N., Pen, U.-L., Vanderlinde, K., van Kerkwijk, M.H., 2018, “Pulsar emission amplified and resolved by plasma lensing in an eclipsing binary,” *Nature* 557, 522–525
136. Kaplan, D.L., Stovall, K., van Kerkwijk, M.H., Fremling, C., Istrate, A.G., 2018, “A dense companion to the short-period millisecond pulsar binary PSR J0636 + 5128,” *ApJ* 864:15 (7pp)
137. Astropy Project (136 authors), 2018, “The Astropy Project: Building an open-science project and status of the v2.0 core package,” *AJ* 156:123 (19pp)

Accepted or in press

138. Dhawan, S., Flörs, A., Leibundgut, B., Maguire, K., Kerzendorf, W., Taubenberger, S., van Kerkwijk, M.H., Spyromilio, J., 2014, “Nebular spectroscopy of SN 2014J: Detection of stable nickel in near infrared spectra,” *A&A*, accepted 2018 July 24 (arXiv:1805.02420)
139. Mahajan, N., van Kerkwijk, M.H., Main, R., Pen, U.-L., 2018, “Mode changing and giant pulses in the millisecond pulsar PSR B1957+20,” *ApJL*, accepted 2018 October 8 (arXiv:1807.01713)

Submitted

140. Main, R., van Kerkwijk, M.H., Pen, U.-L., Rudnitskii, A.G., Popov, M.V., Soglasnov, V.A., Lyutikov, M., 2017, “Mapping the emission location of the Crab pulsar’s giant pulses,” *ApJL*, submitted (arXiv:1709.09179)
141. Heringer, E., van Kerkwijk, M.H., Sim, S.A., Kerzendorf, W.E., Graham, M.L., 2018, “Spectral sequences of Type Ia supernovae. II. Carbon as a diagnostic tool for explosion mechanisms,” *ApJ*, submitted
142. Li, D., Lin, F.X., Main, R., Pen, U.-L., van Kerkwijk, M.H., Yang, I.-S., 2018, “Constraining small scale magnetic fields through plasma lensing: Application to the Black Widow eclipsing pulsar binary,” *MNRAS*, submitted (arXiv:1809.10812)

Proceedings**

143. Van Kerkwijk, M.H., Waters, L.B.F.M., 1989, “2S0114+65 and its peculiar companion.” In: Hunt, J., Battrick, B. (eds.) Proceedings of the 23rd ESLAB symposium “Two Topics in X-ray Astronomy.” ESA publications division, ESTEC, Noordwijk (The Netherlands), p. 473–475

** Only first-author contributions to proceedings are listed.

The ASP Conf. Series is published by the Astron. Soc. of the Pacific.

† Invited review ‡ Invited talk

- 144[†] Van Kerkwijk, M.H., 1995, “Cygnus X-3: an evolutionary missing link found?” In: Van der Hucht, K.A., Williams, P.M. (eds.) Proc. IAU Symp. 163, “Wolf-Rayet stars: binaries, colliding winds, evolution.” Kluwer Academic Publishers, Dordrecht, p. 527–537
- 145[†] Van Kerkwijk, M.H., 1996, “The white dwarf companions of recycled pulsars.” In: Johnston, S., Walker, M., Bailes, M. (eds.) Proc. IAU Coll. 160, “Pulsars: problems and progress.” ASP Conf. Series 105, 489–496 (astro-ph/9606051)
146. Van Kerkwijk, M.H., 1997, “Unique white dwarfs accompanying recycled pulsars.” In: Isern, J., Hernanz, M., Garcia-Berro, E. (eds.) Proc. 10th European workshop on “White dwarfs.” Kluwer Academic Publishers, Dordrecht, p. 383–388 (astro-ph/9611054)
- 147[‡] Van Kerkwijk, M.H., 2001, “Neutron star mass determinations.” In: Kaper, L., Van den Heuvel, E.P.J., Woudt, P.A. (eds.) Proc. of the ESO Workshop “Black holes in binaries and galactic nuclei.” Springer, Heidelberg, p. 39–44 (astro-ph/0001077)
- 148[‡] Van Kerkwijk, M.H., 2003, “Constraints on the equation of state of ultra-dense matter from observations of neutron stars.” In: Van den Heuvel, E.P.J., Kaper, L., Rol, E., Wijers, R.A.M.J. (eds.) Proc. of “From X-ray Binaries to Gamma-ray Bursts,” a Symposium held in memory of Jan van Paradijs, ASP Conf. Series 308, 191–200 (astro-ph/0110336)
149. Van Kerkwijk, M.H., 2003, “X-ray spectroscopy of thermally emitting neutron stars.” In: Camilo, F., Gaensler, B.M. (eds.) Proc. IAU Symp. 218, “Young neutron stars and their environments.” Astronomical Society of the Pacific, Provo, p. 283–286 (astro-ph/0310389)
- 150[†] Van Kerkwijk, M.H., 2004, “Properties of neutron stars.” In: Hong, D.K., Lee, C.-H., Lee, H.K., Min, D.-P., Park, T.-S., & Rho, M. (eds.) Proc. KIAS-APCTP International Symposium in Astro-Hadron Physics “Compact Stars: the Quest for New States of Dense Matter,” World Scientific, Singapore, 116–127 (astro-ph/0403489)
- 151[†] Van Kerkwijk, M.H., Bassa, C.G., Jacoby, B.A., Jonker, P.G., 2005, “Optical studies of companions to millisecond pulsars.” In: Rasio, F.A., Stairs, I.H. (eds.) Proc. of the Aspen Winter Conference on “Binary radio pulsars.” ASP Conf. Series 328, 357–369 (astro-ph/0405283)
- 152[‡] Van Kerkwijk, M.H., Kaplan, D.L., 2007, “Isolated neutron stars: Magnetic fields, distances, and spectra.” In: Zane, S., Turolla, R., Page, D. (eds.) Proc. of “Isolated Neutron Stars: from the Interior to the Surface.” *Astrophys. & Space Sci.* 308, 191–201 (astro-ph/0607320)
153. Van Kerkwijk, M.H., 2013, “Merging white dwarfs and thermonuclear supernovae,” In: O’Brien, P., et al. (eds.) Proc. of “New windows on transients across the Universe.” *Phil. Trans. A* 371:20120236 (7pp; arXiv:1206.1605)
154. Van Kerkwijk, M.H., 1980, “Variabelere logischere poort,” *Elektuur*, 80/6, 46–48 (translated into English (“variable logic gate,” *Elektor*, 80/6, 30–31), French (*Elektor*, 80/9, 53–54) and German (*Elektor*, 80/3, 62–63); *Elektuur* BV, Beek, The Netherlands)
155. Van Kerkwijk, M.H., 1992, “Cygnus X-3: een ‘missing link’ in de evolutie van dubbelsterren?,” *NWO Nieuwsbrief*, 92/4, 10 (newsletter of the Netherlands Organisation for Scientific Research)
156. Van Kerkwijk, M.H., 1992, “Cygnus X-3: een ontbrekende schakel in het leven van een dubbelster?,” *Nederlands Tijdschrift voor Natuurkunde*, 58/16, 257–260 (journal of the Dutch physical society, Badhoevedorp, The Netherlands)
157. Kulkarni, S.R., van Kerkwijk, M.H., 1996, “X-ray bursts puzzle theorists,” *Physics World*, 9/5, 19–20 (Institute of Physics Publishing Ltd, Bristol, UK)
158. Van Kerkwijk, M.H., Kulkarni, S.R., 2000, “The mystery of the lonely neutron star – the VLT reveals bow-shock nebula around RX J1856.5-3754,” *ESO press release* 19/00
159. Van Kerkwijk, M.H., 2001, “Een hete, eenzame neutronenster op leeftijd,” *Zenit*, 2001/1, 12–14 (main Dutch astronomy magazine, De Koepel, Utrecht)
160. Van Kerkwijk, M.H., 2005, “From white dwarfs to black holes: density scales of stars,” *IDEA&S* 2/2, 37 (Arts & Science review, University of Toronto)
161. Kaper, L., van der Meer, A., van Kerkwijk, M.H., van den Heuvel, E.P.J., 2006, “Weighing the masses of neutron stars,” *ESO Messenger* 126, 27–30

Popular/other