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Exploring subluminoous X-ray binaries

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Publication date
2010

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Citation for published version (APA):

Degenaar, N. D. (2010). *Exploring subluminoous X-ray binaries*. [Thesis, fully internal, Universiteit van Amsterdam].

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List of Publications

Refereed journal papers: first author

1. **Degenaar, N.**, & Wijnands, R., 2009, A&A 495, 547
The behaviour of subluminescent X-ray transients near the Galactic centre as observed using the X-ray telescope aboard Swift
– **Chapter 5**
2. **Degenaar, N.**, Wijnands, R., Wolff, M. T., Ray, P. S., Wood, K. S., Homan, J., Lewin, W. H. G., Jonker, P. G., Cackett, E. M., Miller, J. M., Brown, E. F., 2009, MNRAS 396, L26
Chandra and Swift observations of the quasi-persistent neutron star transient EXO 0748–676 back to quiescence
– **Chapter 2**
3. **Degenaar, N.**, Jonker, P.G., Kaur, R., Rea, N., Israel, G. L., Patruno, A., Trap, G., Cackett, E.M., D’Avanzo, P., Lo Curto, G., Torres, M. A. P., Novara, G., Krimm, H., Holland, S.T., De Luca, A., Esposito, P., Wijnands, R., 2010, MNRAS 404, 1591
Multi-wavelength observations of 1RXH J173523.7–354013: revealing an unusual bursting neutron star
– **Chapter 4**
4. **Degenaar, N.**, Wolff, M. T., Ray, P. S., Wood, K. S., Homan, J., Lewin, W. H. G., Jonker, P. G., Cackett, E. M., Miller, J. M., Brown, E. F., Wijnands, R., 2010, MNRAS in press, ArXiv e-print 1007.0247
Further X-ray observations of EXO 0748–676 in quiescence: evidence for a cooling neutron star crust
– **Chapter 3**

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5. **Degenaar, N.**, & Wijnands, R., 2010, A&A in press, ArXiv e-print 1007.0249
A four-year baseline Swift study of enigmatic X-ray transients located near the Galactic centre
– **Chapter 6**

Refereed journal papers: co-author

1. Cackett, E. M., Wijnands, R., Miller, J. M., Brown, E. F., **Degenaar, N.**, 2008, ApJ 687, L87
Cooling of the crust in the neutron star low-mass X-ray binary MXB 1659–29
2. Linares, M., Watts, A. L., Wijnands, R., Soleri, P., **Degenaar, N.**, Curran, P. A., Starling, R. L. C., van der Klis, M., 2009, MNRAS 392, L11
The Swift capture of a long X-ray burst from XTE J1701–407
3. Kaur, R., Wijnands, R., Patruno, A., Testa, V., Israel, G. L., **Degenaar, N.**, Paul, B., Kumar, B., 2009, MNRAS 394, 1597
Chandra and XMM-Newton observations of the low-luminosity X-ray pulsators SAX J1324.4–6200 and SAX J1452.8–5949
4. Watts, A. L., Altamirano, D., Linares, M., Patruno, A., Casella, P., Cavecchi, Y., **Degenaar, N.**, Rea, N., Soleri, P., van der Klis, M., Wijnands, R., 2009, ApJ 698, L174
Discovery of burst oscillations in the intermittent accretion-powered millisecond pulsar HETE J1900.1–2455
5. Wiersema, K., Russell, D. M., **Degenaar, N.**, Klein-Wolt, M., Wijnands, R., Heinz, S., Read, A. M., Saxton, R. D., Tanvir, N. R., 2009, MNRAS 397, L6
Discovery of a large and bright bow shock nebula associated with low-mass X-ray binary SAX J1712.6–3739
6. Kaur, R., Wijnands, R., Paul, B., Patruno, A., **Degenaar, N.**, 2010, MNRAS 402, 2388
Near-infrared/optical identification of five low-luminosity X-ray pulsators
7. Altamirano, D., Linares, M., Patruno, A., **Degenaar, N.**, Wijnands, R., Klein-Wolt, M., van der Klis, M., Markwardt, C., Swank, J., 2010, MNRAS 401, 223
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8. Fridriksson, J. K., Homan, J., Wijnands, R., Méndez, M., Cackett, E.M., Altamirano, D., Belloni, T. M., Brown, E. F., **Degenaar, N.**, Lewin, W. H. G,

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Rapid cooling of the neutron star in the quiescent super-Eddington transient XTE J1701–462

9. Del Santo, M., Sidoli, L., Romano, P., Bazzano, A., Wijnands, R., **Degenaar, N.**, Mereghetti, S., 2010, MNRAS 403, 89
Unveiling the hard X-ray spectrum from the "burst-only" source SAX J1753.5–2349
10. Altamirano, D., Cavecchi, Y., Patruno, A., Watts, A., Linares, M., **Degenaar, N.**, Kalamkar, M., van der Klis, M., Rea, N., Casella, P., Armas Padilla, M., Kaur, R., Yang, Y. J., Soleri, P., Wijnands, R., 2010, ApJ Letters in press, ArXiv e-print 1005.3527
Timing of the first eclipsing accretion-powered millisecond X-ray pulsar
11. Linares, M., Watts, A., Altamirano, D., Soleri, P., **Degenaar, N.**, Yang, Y., Wijnands, R., Casella, P., Homan, J., Chakrabarty, D., Rea, N., Armas-Padilla, M., Cavecchi, Y., Kalamkar, M., Kaur, R., Patruno, A., van der Klis, M., 2010, ApJ 719, L84
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Puzzling thermonuclear burst behaviour from the transient low-mass X-ray binary IGR J17473–2721
13. Cackett, E. M., Brown, E. F., Cumming, A., **Degenaar, N.**, Miller, J. M., Wijnands, R., 2010, ApJ 722, L137
Continued cooling of the crust in the neutron star low-mass X-ray binary KS 1731–260

Selected Astronomer's Telegrams

1. **Degenaar, N.**, Wijnands, R., 2007, ATel 1078
Swift/XRT observations of the very-faint X-ray transient XMMU J174716.1–281048
2. **Degenaar, N.**, Wijnands, R., Galloway, D., Lewin, W., Homan, J., Chakrabarty, D., Campana, S., Miller, J., Cackett, E., 2007, ATel 1091
Continuing flux decay of HETE J1900.1–2455 as observed with Swift/XRT

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3. **Degenaar, N.**, Wijnands, R., Campana, S., Galloway, D., Lewin, W., Homan, J., Chakrabarty, D., Jonker, P., Cackett, E., Miller, J., 2007, ATel 1098
Swift/XRT non-detection of HETE J1900.1–2455
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Increased flux of HETE J1900.1–2455 detected with both Swift and RXTE
 5. **Degenaar, N.**, Krauss, M., Maitra, D., Wijnands, R., Jonker, P., Juett, A., Markwardt, C., Bailyn, C., Chakrabarty, D., 2007, ATel 1136
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 6. **Degenaar, N.**, Klein-Wolt, M., Wijnands, R., 2007, ATel 1175
Swift/XRT observations of the neutron-star X-ray transient SAX J1810.8–2609
 7. Altamirano, D., Wijnands, R., **Degenaar, N.**, Casella, P., Homan, J., Belloni, T., Campana, S., 2007, ATel 1178
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Swift/XRT detection of a possible 1.2 day period the faint persistent X-ray source AX J1538.3–5541
 9. Linares, M., **Degenaar, N.**, Wijnands, R., 2007, ATel 1260
The neutron star transient SAX J1810.8–2609 is going back to quiescence
 10. **Degenaar, N.**, Altamirano, D., Klein-Wolt, M., Wijnands, R., 2008, ATel 1451
Swift/XRT follow-up observation of the field of XTE J1719–291
 11. Altamirano, D., **Degenaar, N.**, in’t Zand, J., Markwardt, C., Wijnands, R., 2008, ATel 1459
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 13. Sidoli, L., Romano, P., Del Santo, M., Wijnands, R., **Degenaar, N.**, 2008, ATel 1496
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 15. **Degenaar, N.**, Wijnands, R., 2008, ATel 1541
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 16. **Degenaar, N.**, Wijnands, R., 2008, ATel 1572
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 17. Linares, M., Soleri, P., Curran, P., Wijnands, R., **Degenaar, N.**, van der Klis, M., Starling, R., Markwardt, C., 2008, ATel 1618
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 18. Linares, M., **Degenaar, N.**, Altamirano, D., Wijnands, R., van der Klis, M., Markwardt, C., 2008, ATel 1662
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 19. Wijnands, R., Linares, M., **Degenaar, N.**, Markwardt, C. B., 2008, ATel 1700
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 24. Altamirano, D., Wijnands, R., van der Klis, M., Patruno, A., Watts, A., Armas Padilla, M., Cavecchi, Y., **Degenaar, N.**, Kalamkar, M., Kaur, R., Yang, Y. J., Casella, P., Linares, M., Soleri, P., Rea, N., 2010, ATel 2565
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RXTE detects X-ray bursts from Circinus X-1
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Re-brightening of XMMSL1 J171900.4–353217
31. Armas Padilla, M., **Degenaar, N.**, Kaur, R., Wijnands, R., Yang, Y., 2010, ATel 2738
XMMSL1 J171900.4–353217 returns to quiescence
32. **Degenaar, N.**, Wijnands, R., Kennea, J. A., Gehrels, N., 2010, ATel 2770
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