

Nick Tothill  
School of Science  
Email: N.Tothill@westernsydney.edu.au

## Qualifications

Doctor of Philosophy, University of London  
Master of Science, University of Manchester  
Bachelor of Arts

## Employment

### Director of Academic Program, Science

School of Science  
Western Sydney University  
1 Jan 2025 → 31 Dec 2025

## Research outputs

### Low-mass contact binaries: orbital stability at extreme low mass ratios

Wadhwa, S. S., Landin, N. R., Arbutina, B., Tothill, N. F. H., De Horta, A. Y., Filipović, M. D., Petrović, J. & Djurašević, G., 1 Dec 2024, In: Monthly Notices of the Royal Astronomical Society. 535, 3, p. 2494-2502 9 p.

### New radio continuum study of the large magellanic cloud supernova remnant N49

Ghavam, M., Filipović, M. D., Alsaberi, R., Barnes, L., Crawford, E. J., Haberl, F., Kavanagh, P., Maggi, P., Payne, J., Rowell, G., Hidetoshi, S., Sasaki, M., Rajabpour, N., Tothill, N. & Urošević, D., Nov 2024, In: Publications of the Astronomical Society of Australia. 41, 12 p., e089.

### Prospects for a survey of the galactic plane with the Cherenkov Telescope Array

The CTA consortium & Lazarevic, S., 1 Oct 2024, In: Journal of Cosmology and Astroparticle Physics. 2024, 10, 71 p.

### Prospects for $\gamma$ -ray observations of the Perseus galaxy cluster with the Cherenkov Telescope Array

The CTA consortium & Lazarevic, S., 1 Oct 2024, In: Journal of Cosmology and Astroparticle Physics. 2024, 10, 105 p., 004.

### Dark matter line searches with the Cherenkov Telescope Array

The CTA Consortium, Dai, S., Filipovic, M. & Tothill, N., 1 Jul 2024, In: Journal of Cosmology and Astroparticle Physics. 2024, 7, 047.

### ATCA study of Small Magellanic Cloud supernova remnant 1E 0102.2-7219

Alsaberi, R. Z. E., Filipovic, M. D., Dai, S., Sano, H., Kothes, R., Payne, J. L., Bozzetto, L. M., Brose, R., Collischon, C., Crawford, E. J., Haberl, F., Hill, T., Kavanagh, P. J., Knies, J., Leahy, D., Macgregor, P. J., Maggi, P., Maitra, C., Manojlović, P. & Martín, S. & 12 others, Matthew, C., Ralph, N. O., Rowell, G., Ruiter, A. J., Sasaki, M., Seitzzahl, I. R., Tokuda, K., Tothill, N. F. H., Urošević, D., Van Loon, J. T., Velović, V. & Vogt, F. P. A., 1 Jan 2024, In: Monthly Notices of the Royal Astronomical Society. 527, 1, p. 1444-1460 17 p.

### Brightest cluster galaxy formation in the $z = 4.3$ protocluster SPT 2349-56 : discovery of a radio-loud active galactic nucleus

Chapman, S. C., Hill, R., Aravena, M., Archipley, M., Babul, A., Burgoyne, J., Canning, R. E. A., Deane, R. P., De, B., Gonzalez, A. H., Hayward, C. C., Kim, S. W., Malkan, M., Marrone, D. P., McIntyre, V., Murphy, E., Pass, E., Perry, R. W., Phadke, K. A. & Rennehan, D. & 13 others, Reuter, C., Rotermund, K. M., Scott, D., Seymour, N., Solimano, M., Spilker, J., Stark, A. A., Sulzenauer, N., Tothill, N., Vieira, J. D., Vizgan, D., Wang, G. & Weiss, A., 1 Jan 2024, In: Astrophysical Journal. 961, 1, 25 p., 120.

### Effects of metallicity on the instability mass ratio of low-mass contact binary systems

Wadhwa, S. S., Landin, N. R., Kostić, P., Vince, O., Arbutina, B., De horta, A. Y., Filipović, M., Tothill, N. F. H., Petrović, J. & Djurašević, G., 1 Jan 2024, In: Monthly Notices of the Royal Astronomical Society. 527, 1, p. 1-9 9 p.

### **Fast as Potoroo: radio continuum detection of a bow-shock pulsar wind nebula powered by pulsar J1638-4713**

Lazarević, S., Filipović, M. D., Dai, S., Kothes, R., Ahmad, A., Alsaberi, R. Z. E., Balzan, J. C. F., Barnes, L. A., Cotton, W. D., Edwards, P. G., Gordon, Y. A., Haberl, F., Hopkins, A. M., Koribalski, B. S., Leahy, D., Maitra, C., Mičić, M., Rowell, G., Sasaki, M. & Tothill, N. F. H. & 2 others, Umana, G. & Velović, V., 2024, In: Publications of the Astronomical Society of Australia. 41, 15 p., e032.

### **Optimising an array of Cherenkov telescopes in Australia for the detection of TeV gamma-ray transients**

Lee, S., Einecke, S., Rowell, G., Balazs, C., Bellido, J., Dai, S., Filipović, M. D., Harvey, V., McGee, P., Marinos, P., Tothill, N. & White, M., 2024, In: Publications of the Astronomical Society of Australia. 41, 11 p., e075.

### **Astrometric calibration and source characterisation of the latest generation neuromorphic event-based cameras for space imaging**

Ralph, N. O., Marcireau, A., Afshar, S., Tothill, N., Schaik, A. V. & Cohen, G., Dec 2023, In: *Astrodynamics*. 7, 4, p. 415-443 29 p.

### **Photometric and spectroscopic study of two low mass ratio contact binary systems : CRTS J225828.7-121122 and CRTSJ030053.5+230139**

Wadhwa, S. S., Petrović, J., Tothill, N. F. H., De Horta, A. Y., Filipović, M. D. & Djurašević, G., Nov 2023, In: *Research in Astronomy and Astrophysics*. 23, 11, 6 p., 115001.

### **A study of six extreme low mass ratio contact binary systems**

Wadhwa, S. S., Arbutina, B., Petrović, J., Filipović, M. D., De Horta, A. Y., Tothill, N. F. H. & Djurašević, G., 1 Sept 2023, In: *Publications of the Astronomical Society of the Pacific*. 135, 1051, 9 p., 094201.

### **The Mopra Southern Galactic Plane CO Survey-data release 4-complete survey**

Cubuk, K. O., Burton, M. G., Braiding, C., Wong, G. F., Rowell, G., Maxted, N. I., Eden, D., Alsaberi, R. Z. E., Blackwell, R., Enokiya, R., Feijen, K., Filipovic, M. D., Freeman, M. S. R., Fujita, S., Ghavam, M., Gunay, B., Indermuehle, B., Hayashi, K., Kohno, M. & Nagaya, T. & 11 others, Nishimura, A., Okawa, K., Rebollo, D., Romano, D., Sano, H., Snoswell, C., Tothill, N. F. H., Tsuge, K., Voisin, F., Yamane, Y. & Yoshiike, S., 22 Aug 2023, In: *Publications of the Astronomical Society of Australia*. 40, 13 p., e047.

### **Sensitivity of the Cherenkov Telescope Array to TeV photon emission from the Large Magellanic Cloud**

Acharyya, A., Adam, R., Aguasca-Cabot, A., Agudo, I., Aguirre-Santaella, A., Alfaro, J., Aloisio, R., Batista, R. A., Amato, E., Angüner, E. O., Aramo, C., Arcaro, C., Asano, K., Aschersleben, J., Ashkar, H., Backes, M., Baktash, A., Balazs, C., Balbo, M. & Ballet, J. & 33 others, Bamba, A., Larriva, A. B., Martins, V. B., Barres de Almeida, U., Barrio, J. A., Bastieri, D., Batista, P., Batkovic, I., Baxter, J. R., González, J. B., Tjus, J. B., Benbow, W., Bernardini, E., Martín, M. I., Medrano, J. B., Berti, A., Bertucci, B., Beshley, V., Bhattacharjee, P., Bhattacharyya, S., Bigongiari, C., Biland, A., Bissaldi, E., Bocchino, F., Bordas, P., Borkowski, J., Bottacini, E., Böttcher, M., Bradascio, F., Brown, A. M., Filipovic, M., Tothill, N. & et al, 1 Aug 2023, In: *Monthly Notices of the Royal Astronomical Society*. 523, 4, p. 5353-5387 35 p.

### **Sensitivity of the Cherenkov Telescope Array to spectral signatures of hadronic PeVatrons with application to Galactic Supernova Remnants**

Aceró, F., Acharyya, A., Adam, R., Aguasca-Cabot, A., Agudo, I., Aguirre-Santaella, A., Alfaro, J., Aloisio, R., Alvarez-Crespo, N., Batista, R. A., Amati, L., Amato, E., Ambrosi, G., Angüner, E. O., Aramo, C., Arcaro, C., Armstrong, T., Asano, K., Ascasibar, Y. & Aschersleben, J. & 33 others, Backes, M., Baktash, A., Balazs, C., Balbo, M., Ballet, J., Baquero Larriva, A., Barbosa Martins, V., Barres De Almeida, U., Barrio, J. A., Bastieri, D., Baxter, J., Tjus, J. B., Benbow, W., Bernardos-Martín, M. I., Bernete, J., Berti, A., Bertucci, B., Beshley, V., Bhattacharjee, P., Bhattacharyya, S., Biland, A., Bissaldi, E., Biteau, J., Blanch, O., Bordas, P., Bottacini, E., Bregeon, J., Brose, R., Bucciantini, N., Bulgarelli, A., Filipovic, M., Tothill, N. & et al., Aug 2023, In: *Astroparticle Physics*. 150, 28 p., 102850.

### **A study of twelve potential merger candidate contact binary systems**

Wadhwa, S. S., Arbutina, B., Tothill, N. F. H., Filipović, M. D., De Horta, A. Y., Petrović, J. & Djurašević, G., 1 Jul 2023, In: *Publications of the Astronomical Society of the Pacific*. 135, 1049, 9 p., 074202.

### **Redshift evolution of the feedback-cooling equilibrium in the core of 48 SPT galaxy clusters : a joint Chandra-SPT-ATCA analysis**

Ruppin, F., McDonald, M., Hlavacek-Larrondo, J., Bayliss, M., Bleem, L. E., Calzadilla, M., Edge, A. C., Filipović, M. D., Floyd, B., Garmire, G., Khullar, G., Kim, K. J., Kraft, R., Mahler, G., Norris, R. P., O'Brien, A., Reichardt, C. L., Somboonpanyakul, T., Stark, A. A. & Tothill, N., 1 May 2023, In: *Astrophysical Journal*. 948, 1, 10 p., 49.

#### **On the true nature of the contact binary CRTS J192848.7-404555**

Wadhwa, S. S., DeHorta, A. Y., Filipović, M. & Tothill, N. F. H., Mar 2023, In: *Astronomische Nachrichten*. 344, 3, 7 p., e220066.

#### **New ASKAP radio Supernova Remnants and candidates in the Large Magellanic Cloud**

Bozzetto, L. M., Filipovic, M. D., Sano, H., Alsaberi, R. Z. E., Barnes, L. A., Bojicic, I. S., Brose, R., Chomiuk, L., Crawford, E. J., Dai, S., Ghavam, M., Haberl, F., Hill, T., Hopkins, A. M., Ingallinera, A., Jarrett, T., Kavanagh, P. J., Koribalski, B. S., Kothes, R. & Leahy, D. & 17 others, Lenc, E., Leonidaki, I., Maggi, P., Maitra, C., Matthew, C., Payne, J. L., Pennock, C. M., Points, S., Reid, W., Riggi, S., Rowell, G., Sasaki, M., Safi-Harb, S., Van Loon, J. T., Tothill, N. F. H., Urošević, D. & Zangrandi, F., 1 Jan 2023, In: *Monthly Notices of the Royal Astronomical Society*. 518, 2, p. 2574-2598 25 p.

#### **Effective temperature and the light curve solution of contact binary systems**

Wadhwa, S., Tothill, N. F. H., Filipović, M. D. & Horta, A. Y. D., 2023, In: *Serbian Astronomical Journal*. 207, 207, p. 21-28 8 p.

#### **Photometric update of $\hat{\Gamma}$ Scuti stars : ZZ Microscopium**

Wadhwa, S. S., De Horta, A. Y., Tothill, N. F. H. & Filipovic, M. D., 2023, In: *Research Notes of the AAS*. 7, 9, 5 p., 198.

#### **Analysis of dual band and survey photometry of two low mass ratio contact binary systems**

Wadhwa, S. S., De Horta, A. Y., Filipović, M. D. & Totohill, N. F. H., 2022, In: *Journal of Astrophysics and Astronomy*. 43, 2, 9 p., 42.

#### **European historical evidence of the supernova of AD 1054 coins of Constantine IX and SN 1054**

Filipović, M. D., Payne, J. L., Jarrett, T., Tothill, N. F. H., Crawford, E. J., Urošević, D., Longo, G., Collier, J. D., Kavanagh, P. J., Matthew, C. & Ilić, M., 2022, In: *European Journal of Science and Theology*. 18, 4, p. 51-66 16 p.

#### **Long-wave (radio) astronomy with coherent detection from radio to THz**

Hurley-Walker, N., Payne, J. L., Filipović, M. D. & Tothill, N., 2022, *Multimessenger Astronomy in Practice*. Filipovic, M. D. & Tothill, N. F. (eds.). U.K.: IOP Publishing, p. 45293-23774 65 p.

#### **Multimessenger Astronomy in Practice**

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#### **Multimessenger astronomy in practice : celestial sources in action**

Filipović, M. D., Payne, J. L. & Tothill, N. F. H., 2022, *Multimessenger Astronomy in Practice*. Filipovic, M. D. & Tothill, N. F. (eds.). U.K.: IOP Publishing, p. 1-27 27 p.

#### **Mysterious odd radio circle near the large magellanic cloud : an intergalactic supernova remnant?**

Filipović, M. D., Payne, J. L., Alsaberi, R. Z. E., Norris, R. P., Macgregor, P. J., Rudnick, L., Koribalski, B. S., Leahy, D., Ducci, L., Kothes, R., Andernach, H., Barnes, L., Bojčić, I. S., Bozzetto, L. M., Brose, R., Collier, J. D., Crawford, E. J., Crocker, R. M., Dai, S. & Galvin, T. J. & 32 others, Haberl, F., Heber, U., Hill, T., Hopkins, A. M., [Unknown], N., Ingallinera, A., Jarrett, T., Kavanagh, P. J., Lenc, E., Luken, K. J., Mackey, D., Manojlović, P., Maggi, P., Maitra, C., Pennock, C. M., Points, S., Riggi, S., Rowell, G., Safi-Harb, S., Sano, H., Sasaki, M., Shabala, S., Stevens, J., van Loon, J. T., Tothill, N. F. H., Umana, G., Urošević, D., Velović, V., Vernstrom, T., West, J. L., Wan, Z. & Wan, Z., 2022, In: *Monthly Notices of the Royal Astronomical Society*. 512, 1, p. 265-284 20 p.

#### **Photometric analysis of three potential red nova progenitors**

Wadhwa, S. S., De Horta, A., Filipović, M. D., Tothill, N. F. H., Arbutina, B., Petrović, J. & Djurašević, G., 2022, In: *Research in Astronomy and Astrophysics*. 22, 10, 8 p., 105009.

### **Real-time event-based unsupervised feature consolidation and tracking for space situational awareness**

Ralph, N., Joubert, D., Jolley, A., Afshar, S., Tothill, N., Schaik, A. V. & Cohen, G., 2022, In: *Frontiers in Neuroscience*. 16, 26 p.

### **Simplified method for the identification of low mass ratio contact binary systems that are potential red nova progenitors**

Wadhwa, S. S., De Horta, A. Y., Filipovic, M. D., Tothill, N. F. H., Arbutina, B., Petrovic, J. & Djurasevic, G., 2022, In: *Journal of Astrophysics and Astronomy*. 43, 2, 12 p.

### **A first glimpse at the Galactic plane with the ASKAP : the SCORPIO field**

Umana, G., Trigilio, C., Ingallinera, A., Riggi, S., Cavallaro, F., Marvil, J., Norris, R. P., Hopkins, A. M., Buemi, C. S., Bufano, F., Leto, P., Loru, S., Bordiu, C., Buntun, J. D., Collier, J. D., Filipovic, M., Franzen, T. M. O., Thompson, M. A., Andernach, H. & Carretti, E. & 8 others, Dai, S., Kapińska, A., Koribalski, B. S., Kothes, R., Leahy, D., McConnell, D., Tothill, N. & Michałowski, M. J., 2021, In: *Monthly Notices of the Royal Astronomical Society*. 506, 2, p. 2232-2246 15 p.

### **European historical evidence of the supernova of AD 1054 sky above Europe on 4th July 1054**

Filipović, M. D., Payne, J. L., Jarrett, T., Tothill, N. F. H., Urošević, D., Kavanagh, P. J., Longo, G., Crawford, E. J., Collier, J. D. & Ilić, M., 2021, In: *European Journal of Science and Theology*. 17, 3, p. 147-160 14 p.

### **Photometric analysis of two extreme low mass ratio contact binary systems**

Wadhwa, S. S., Tothill, N. F. H., DeHorta, A. Y. & Filipovic, M., 2021, In: *Research in Astronomy and Astrophysics*. 21, 9, 7 p., 235.

### **Principles of Multimessenger Astronomy**

Filipovic, M. & Tothill, N. F. H., 2021, U.K.: IOP Publishing. 200 p.

### **Sensitivity of the Cherenkov Telescope Array to a dark matter signal from the Galactic centre**

Acharyya, A., Adam, R., Adams, C., Agudo, I., Aguirre-Santaella, A., Alfaro, R., Alfaro, J., Alispach, C., Aloisio, R., Alves, B., Amati, L., Ambrosi, G., Angüner, E. O., Antonelli, L. A., Aramo, C., Araudo, A., Armstrong, T., Arqueros, F., Asano, K. & Ascasibar, Y. & 382 others, Ashley, M., Balazs, C., Ballester, O., Baquero, L., Barbosa, M., Barkov, M., Barres, D., Barrio, J. A., Bastieri, D., Becerra, J., Beck, G., Becker, T., Benbow, W., Benito, M., Berge, D., Bernardini, E., Bernlöhr, K., Berti, A., Bertucci, B., Beshley, V., Biasuzzi, B., Biland, A., Bissaldi, E., Biteau, J., Blanch, O., Blazek, J., Bocchino, F., Boisson, C., Bonneau, A., Bordas, P., Bosnjak, Z., Bottacini, E., Bozhilov, V., Bregeon, J., Brill, A., Bringmann, T., Brown, A. M., Brun, P., Brun, F., Bruno, P., Bulgarelli, A., Burton, M., Burtovoi, A., Buscemi, M., Cameron, R., Capasso, M., Caproni, A., Capuzzo-Dolcetta, R., Caraveo, P., Carosi, R., Carosi, A., Casanova, S., Cascone, E., Cassol, F., Catalani, F., Cauz, D., Cerruti, M., Chadwick, P., Chaty, S., Chen, A., Chernyakova, M., Chiaro, G., Chiavassa, A., Chikawa, M., Chudoba, J., Çolak, M., Conforti, V., Coniglione, R., Conte, F., Contreras, J. L., Coronado-Blazquez, J., Costa, A., Costantini, H., Cotter, G., Cristofari, P., D'Ai, A., D'Ammando, F., Damone, L. A., Daniel, M. K., Dazzi, F., de, A., de, C., de, C., de, G., de, L., de, M., de, O., de, P., de, S., Delgado, C., Delgado, G., della, V., Depaoli, D., Di, G., Di, P., Di, V., Diebold, S., Dmytriiev, A., Domínguez, A., Donini, A., Doro, M., Ebr, J., Eckner, C., Edwards, T. D. P., Ekoume, T. R. N., Elsässer, D., Evoli, C., Falceta-Goncalves, D., Fedorova, E., Fegan, S., Feng, Q., Ferrand, G., Ferrara, G., Fiandrini, E., Fiasson, A., Filipovic, M., Fioretti, V., Fiori, M., Foffano, L., Fontaine, G., Fornieri, O., Franco, F. J., Fukami, S., Fukui, Y., Gaggero, D., Galaz, G., Gammaldi, V., Garcia, E., Garczarczyk, M., Gascon, D., Gent, A., Ghalumyan, A., Gianotti, F., Giarrusso, M., Giavitto, G., Giglietto, N., Giordano, F., Giuliani, A., Glicenstein, J., Gnatyk, R., Goldoni, P., González, M. M., Gourgouliatos, K., Granot, J., Grasso, D., Green, J., Grillo, A., Gueta, O., Gunji, S., Halim, A., Hassan, T., Heller, M., Hernández, C., Hiroshima, N., Hnatyk, B., Hofmann, W., Holder, J., Horan, D., Hörandel, J., Horvath, P., Hovatta, T., Hrabovsky, M., Hrupec, D., Hughes, G., Humensky, T. B., Hütten, M., Iarlori, M., Inada, T., Inoue, S., Iocco, F., Iori, M., Jamrozy, M., Janecek, P., Jin, W., Jouvin, L., Jurysek, J., Karukes, E., Katarzyński, K., Kazanas, D., Kerszberg, D., Kherlakian, M. C., Kissmann, R., Knödseder, J., Kobayashi, Y., Kohri, K., Komin, N., Kubo, H., Kushida, J., Lamanna, G., Lapington, J., Laporte, P., Leigui, D., Lenain, J., Leone, F., Leto, G., Lindfors, E., Lohse, T., Lombardi, S., Longo, F., Lopez, A., López, M., López-Coto, R., Loporchio, S., Luque-Escamilla, P. L., Mach, E., Maggio, C., Maier, G., Mallamaci, M., Malta, N., Mandat, D., Manganaro, M., Mangano, S., Manicò, G., Marculewicz, M., Mariotti, M., Markoff, S., Marquez, P., Martí, J., Martínez, O., Martínez, M., Martínez, G., Martínez-Huerta, H., Maurin, G., Mazin, D., Mbarubucyeye, J. D., Medina, M., Meyer, M., Miceli, M., Miener, T., Mineev, M., Miranda, J. M., Mirzoyan, R., Mizuno, T., Mode, B., Moderski, R., Mohrmann, L., Molina, E., Montaruli, T., Moralejo, A., Morcuende-Parrilla, D., Morselli, A., Mukherjee, R., Mundell, C., Nagai, A., Nakamori, T., Nemmen, R., Niemiec, J., Nieto, D., Nikolajuk, M., Ninci, D., Noda, K., Nosek, D., Nozaki, S., Ohira, Y., Ohishi, M., Ohtani, Y., Oka, T., Okumura, A., Ong, R. A., Orienti, M., Orito, R., Orlandini, M., Orlando, S., Orlando, E., Ostrowski, M., Oya, I., Pagano, I., Pagliaro, A., Palatiello, M., Pantaleo, F. R., Paredes, J. M., Pareschi, G.,

Parmiggiani, N., Patricelli, B., Pavletić, L., Pe'Er, A., Pecimotika, M., Pérez-Romero, J., Persic, M., Petruk, O., Pfrang, K., Piano, G., Piatteli, P., Pietropaolo, E., Pillera, R., Pilszyk, B., Pintore, F., Pohl, M., Poireau, V., Prado, R. R., Prandini, E., Prast, J., Principe, G., Prokoph, H., Prouza, M., Przybyski, H., Pühlhofer, G., Pumo, M. L., Queiroz, F., Quirrenbach, A., Rainò, S., Rando, R., Razaque, S., Recchia, S., Reimer, O., Reisenegger, A., Renier, Y., Rhode, W., Ribeiro, D., Ribó, M., Richtler, T., Rico, J., Rieger, F., Rinchiuso, L., Rizi, V., Rodriguez, J., Rodriguez, F., Rodriguez, R., Rojas, G., Romano, P., Romeo, G., Rosado, J., Rowell, G., Rudak, B., Russo, F., Sadeh, I., Sæther, H., Safi-Harb, S., Salesa, G., Salina, G., Sanchez, D., Sánchez-Conde, M., Sangiorgi, P., Sano, H., Santander, M., Santos, E. M., Santos-Lima, R., Sanuy, A., Sarkar, S., Saturni, F. G., Sawangwit, U., Schussler, F., Schwanke, U., Sciacca, E., Scuderi, S., Seglar-Arroyo, M., Sergijenko, O., Servillat, M., Seweryn, K., Shalchi, A., Sharma, P., Shellard, R. C., Siejkowski, H., Silk, J., Siqueira, C., Sliusar, V., Stowikowska, A., Sokolenko, A., Sol, H., Spencer, S., Stammer, A., Stanič, S., Starling, R., Stolarczyk, T., Straumann, U., Strišković, J., Suda, Y., Suomijarvi, T., Świerk, P., Tavecchio, F., Taylor, L., Tejedor, L. A., Teshima, M., Testa, V., Tibaldo, L., Toderò, P., Tokanai, F., Tonev, D., Tosti, G., Tosti, L., Tothill, N. & et al, 2021, In: Journal of Cosmology and Astroparticle Physics. 2021, 1, 62 p.

### **ZZ Piscis Austrinus (ZZ PsA) : a bright red nova progenitor and the instability mass ratio of contact binary stars**

Wadhwa, S. S., De Horta, A., Filipović, M. D., Tothill, N. F. H., Arbutina, B., Petrović, J. & Djurašević, G., 2021, In: Monthly Notices of the Royal Astronomical Society. 501, 1, p. 229-235 7 p.

### **Discovery of a pulsar-powered bow shock nebula in the Small Magellanic Cloud supernova remnant DEMS5**

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### **Discovery of shocked molecular clouds associated with the shell-type supernova remnant RX J0046.5-7308 in the Small Magellanic Cloud**

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## **Activities**

**Astronomical Society of Australia (Event)**



Tohill, N. (Other)  
1 Jan 2014 → 1 Jan 2020

### **International Astronomical Union (Event)**

Tohill, N. (Other)  
1 Jan 2003 → 1 Jan 2020

## **Awards**

### **The Cherenkov Telescope Array - From Production towards Operation [via University of Adelaide]**

Tohill, N. (PI) & Filipovic, M. (Investigator)  
Western Sydney University: A\$120,000.00, Australian Research Council: A\$174,000.00  
1/11/21 → 31/12/25

## **Projects**

### **TAIPAN - a spectrograph to survey the southern sky [via ANU]**

Tohill, N. (PI), Filipovic, M. (Investigator), Colless, M. (Investigator), Drinkwater, M. (Investigator), Hopkins, A. (Investigator), Lawrence, J. (Investigator), Gaensler, B. (Investigator), Bland-Hawthorn, J. (Investigator), Sadler, E. (Investigator), Parker, Q. (Investigator), Blake, C. (Investigator), Mould, J. (Investigator), Staveley-Smith, L. (Investigator), Koribalski, B. (Investigator), Brown, M. (Investigator), Jones, H. (Investigator), Norris, R. (Investigator), Pimblet, K. (Investigator), Tinney, C. (Investigator), Springob, C. (Investigator), Parkinson, D. (Investigator), Webster, R. (Investigator), Croom, S. (Investigator), Ireland, M. (Investigator) & Sheinis, A. (Investigator)  
Australian Research Council  
11/06/14 → 10/06/15

### **The Cherenkov Telescope Array - From Production towards Operation [via University of Adelaide]**

Tohill, N. (PI) & Filipovic, M. (Investigator)  
Western Sydney University, Australian Research Council  
1/11/21 → 31/12/25

### **The Cherenkov Telescope Array [via Uni of Adelaide]**

Filipovic, M. (PI), Tohill, N. (Investigator), Rowell, G. (Investigator), Burton, M. (Investigator), Green, A. (Investigator), Dawson, B. (Investigator), Balazs, C. (Investigator), Crocker, R. (Investigator), Veitch, P. (Investigator), Galloway, D. (Investigator), White, M. (Investigator), Bicknell, G. (Investigator), Braiding, C. (Investigator), Ottaway, D. (Investigator), Hinton, J. (Investigator) & Berge, D. (Investigator)  
Australian Research Council  
20/02/15 → 19/02/16

### **The Mopra Radio Telescope [via UNSW]**

Tohill, N. (PI), Burton, M. (Investigator), Ashley, M. (Investigator), Braiding, C. (Investigator), Dickey, J. (Investigator), Ellingsen, S. (Investigator), Green, A. (Investigator), Rebolledo Lara, D. (Investigator), Rowell, G. (Investigator), Dawson, J. (Investigator), Menten, K. (Investigator), Hinton, J. (Investigator), Aharonian, F. (Investigator) & Fukui, Y. (Investigator)  
Australian Research Council  
22/04/16 → 21/04/17

### **The Nanten2 sub-millimetre telescope [via UNSW]**

Filipovic, M. (PI), Tohill, N. (Investigator), Burton, M. (Investigator), Storey, J. (Investigator), Cunningham, M. (Investigator), Green, A. (Investigator), Wardle, M. (Investigator), Dawson, B. (Investigator), Rowell, G. (Investigator), Maddison, S. (Investigator), Walsh, A. (Investigator), Fukui, Y. (Investigator) & Stutzki, J. (Investigator)  
Australian Research Council  
1/01/12 → 31/12/16