

Publicaciones Observatorio Astronómico Nacional

Año 2019

- Herrera-Camus R., Tacconi L., Genzel R., Förster Schreiber N., Lutz D., Bolatto A., Wuyts S., Renzini A., Lilly S., Belli S., Übler H., Shimizu T., Davies R., Sturm E., Combes F., ..., **García-Burillo S.**, et al.
Molecular and Ionized Gas Phases of an AGN-driven Outflow in a Typical Massive Galaxy at $z \approx 2$.
The Astrophysical Journal, 871, 37, 01/2019
<http://dx.doi.org/10.3847/1538-4357/aaf6a7>
- Gadotti D. A., Sánchez-Blázquez P., Falcón-Barroso J., Husemann B., Seidel M. K., Pérez I., de Lorenzo-Cáceres A., Martínez-Valpuesta I., Fragkoudi F., Leung G., van de Ven G., Leaman R., Coelho P., Martig M., Kim T., ..., y **Querejeta M.**
Time Inference with MUSE in Extragalactic Rings (TIMER): properties of the survey and high-level data products.
Monthly Notices of the Royal Astronomical Society, 482, 506, 01/2019
<http://dx.doi.org/10.1093/mnras/sty2666>
- Chanapote T., Asanok K., Dodson R., **Rioja M.**, Green J. A., Hutawarakorn Kramer B.
Tracing the magnetic field and other properties of G351.417+0.645 at subarcsecond scales with the Long Baseline Array.
Monthly Notices of the Royal Astronomical Society, 482, 1670, 01/2019
<http://dx.doi.org/10.1093/mnras/sty2767>
- Jones D., Boffin H. M. J., Sowicka P., Miszalski B., Rodríguez-Gil P., **Santander-García M.**, Corradi R. L. M.
The short orbital period binary star at the heart of the planetary nebula M 3-1.
Monthly Notices of the Royal Astronomical Society, 482, L75, 01/2019
<http://dx.doi.org/10.1093/mnras/sly142>
- Méndez-Abreu J., de Lorenzo-Cáceres A., Gadotti D. A., Fragkoudi F., van de Ven G., Falcón-Barroso J., Leaman R., Pérez I., **Querejeta M.**, Sánchez-Blázquez P., Seidel M.
Inner bars also buckle. The MUSE TIMER view of the double-barred galaxy NGC 1291.
Monthly Notices of the Royal Astronomical Society, 482, L118, 01/2019
<http://dx.doi.org/10.1093/mnras/sly196>

- Freundlich J., Combes F., Tacconi L. J., Genzel R., **García-Burillo S.**, Neri R., Contini T., Bolatto A., Lilly S., Salomé P., Bicalho I. C., Boissier J., Boone F., Bouché N., Bournaud F., et al.
PHIBSS2: survey design and $z = 0.5 - 0.8$ results. Molecular gas reservoirs during the winding-down of star formation.
Astronomy and Astrophysics, 622, A105, 02/2019
<http://dx.doi.org/10.1051/0004-6361/201732223>
- Fazeli N., Busch G., Valencia-S. M., Eckart A., Zajaček M., Combes F., **García-Burillo S.**
Near-infrared observations of star formation and gas flows in the NUGA galaxy NGC 1365.
Astronomy and Astrophysics, 622, A128, 02/2019
<http://dx.doi.org/10.1051/0004-6361/201834255>
- **Chacón-Tanarro A.**, Caselli P., Bizzocchi L., Pineda J. E., Sipilä O., Vasyunin A., Spezzano S., Punanova A., Giuliano B. M., Lattanzi V.
Mapping deuterated methanol toward L1544. I. Deuterium fraction and comparison with modeling.
Astronomy and Astrophysics, 622, A141, 02/2019
<http://dx.doi.org/10.1051/0004-6361/201832703>
- Fonfría J. P., **Santander-García M.**, Cernicharo J., Velilla-Prieto L., Agúndez M., Marcelino N., Quintana-Lacaci G.
Gas infall and possible circumstellar rotation in R Leonis.
Astronomy and Astrophysics, 622, L14, 02/2019
<http://dx.doi.org/10.1051/0004-6361/201834840>
- Zhao G.-Y., Jung T., Sohn B. W., Kino M., Honma M., Dodson R., **Rioja M.**, Han S.-T., Shibata K., Byun D.-Y., Akiyama K., Algaba J.-C., An T., Cheng X., Cho I., et al.
Source-Frequency Phase-Referencing Observation of AGNS with KAVA Using Simultaneous Dual-Frequency Receiving.
Journal of Korean Astronomical Society, 52, 23, 02/2019
<http://dx.doi.org/10.5303/JKAS.2019.52.1.23>
- Bianchi E., Codella C., Ceccarelli C., Vazart F., **Bachiller R.**, Balucani N., Bouvier M., De Simone M., Enrique-Romero J., Kahane C., Lefloch B., López-Sepulcre A., Ospina-Zamudio J., Podio L., Taquet V.
The census of interstellar complex organic molecules in the Class I hot corino of SVS13-A.
Monthly Notices of the Royal Astronomical Society, 483, 1850, 02/2019
<http://dx.doi.org/10.1093/mnras/sty2915>

- Falstad N., Hallqvist F., Aalto S., König S., Muller S., Aladro R., Combes F., Evans A. S., Fuller G. A., Gallagher J. S., **García-Burillo S.**, González-Alfonso E., Greve T. R., Henkel C., Imanishi M., et al.
Hidden or missing outflows in highly obscured galaxy nuclei?
Astronomy and Astrophysics, 623, A29, 03/2019
<http://dx.doi.org/10.1051/0004-6361/201834586>
- Combes F., **García-Burillo S.**, Audibert A., Hunt L., Eckart A., Aalto S., Casasola V., Boone F., Krips M., Viti S., Sakamoto K., Muller S., Dasyra K., van der Werf P., Martin S.
ALMA observations of molecular tori around massive black holes.
Astronomy and Astrophysics, 623, A79, 03/2019
<http://dx.doi.org/10.1051/0004-6361/201834560>
- **Chacón-Tanarro A.**, Pineda J. E., Caselli P., Bizzocchi L., Gutermuth R. A., Mason B. S., Gómez-Ruiz A. I., Harju J., Devlin M., Dicker S. R., Mroczkowski T., Romero C. E., Sievers J., Stanchfield S., Offner S., et al.
Dust opacity variations in the pre-stellar core L1544.
Astronomy and Astrophysics, 623, A118, 03/2019
<http://dx.doi.org/10.1051/0004-6361/201833385>
- Sie N.-E., Muñoz Caro G. M., Huang Z.-H., Martín-Doménech R., **Fuente A.**, Chen Y.-J.
On the Photodesorption of CO₂ Ice Analogs: The Formation of Atomic C in the Ice and the Effect of the VUV Emission Spectrum.
The Astrophysical Journal, 874, 35, 03/2019
<http://dx.doi.org/10.3847/1538-4357/ab06be>
- Caselli P., Pineda J. E., Zhao B., Walmsley M. C., Keto E., **Tafalla M.**, **Chacón-Tanarro A.**, Bourke T. L., Friesen R., Galli D., Padovani M.
The Central 1000 au of a Pre-stellar Core Revealed with ALMA. I. 1.3 mm Continuum Observations.
The Astrophysical Journal, 874, 89, 03/2019
<http://dx.doi.org/10.3847/1538-4357/ab0700>
- Chanapote T., Dodson R., **Rioja M.**, Asanok K., Stevens J., Martí-Vidal I.
Demonstration of polarisation calibration with the LBA on Selected AGNs.
Publications of the Astronomical Society of Australia, 36, e013, 03/2019
<http://dx.doi.org/10.1017/pasa.2019.3>
- **Fuente A.**, Navarro D. G., Caselli P., Gerin M., Kramer C., Roueff E., **Alonso-Albi T.**, **Bachiller R.**, Cazaux S., Commerçon B., Friesen R., **García-Burillo S.**, Giuliano B. M., Goicoechea J. R., Gratier P., et al.
Gas phase Elemental abundances in Molecular cloudS (GEMS). I. The prototypical dark cloud TMC 1.

- Astronomy and Astrophysics, 624, A105, 04/2019
<http://dx.doi.org/10.1051/0004-6361/201834654>
- Verbena J. L., **Bujarrabal V.**, **Alcolea J.**, **Gómez-Garrido M.**, Castro-Carrizo A.
Interferometric observations of SiO thermal emission in the inner wind of M-type AGB stars IK Tauri and IRC+10011.
Astronomy and Astrophysics, 624, A107, 04/2019
<http://dx.doi.org/10.1051/0004-6361/201834864>
 - Kerr R., Kirk H., Di Francesco J., Keown J., Chen M., Rosolowsky E., Offner S. S. R., Friesen R., Pineda J. E., Shirley Y., Redaelli E., Caselli P., Punanova A., Seo Y., Alves F., ..., **Chacón-Tanarro A.**, et al.
The Green Bank Ammonia Survey: A Virial Analysis of Gould Belt Clouds in Data Release 1.
The Astrophysical Journal, 874, 147, 04/2019
<http://dx.doi.org/10.3847/1538-4357/ab0c08>
 - de Lorenzo-Cáceres A., Sánchez-Blázquez P., Méndez-Abreu J., Gadotti D. A., Falcón-Barroso J., Martínez-Valpuesta I., Coelho P., Fragkoudi F., Husemann B., Leaman R., Pérez I., **Querejeta M.**, Seidel M., van de Ven G.
Clocking the assembly of double-barred galaxies with the MUSE TIMER project.
Monthly Notices of the Royal Astronomical Society, 484, 5296, 04/2019
<http://dx.doi.org/10.1093/mnras/stz221>
 - **Querejeta M.**, Schinnerer E., Schrubba A., Murphy E., Meidt S., **Usero A.**, Leroy A. K., Pety J., Bigiel F., Chevance M., Faesi C. M., Gallagher M., **García-Burillo S.**, Glover S. C. O., Hygate A. P. S., et al.
Dense gas is not enough: environmental variations in the star formation efficiency of dense molecular gas at 100 pc scales in M 51.
Astronomy and Astrophysics, 625, A19, 05/2019
<http://dx.doi.org/10.1051/0004-6361/201834915>
 - Bublitz J., Kastner J. H., **Santander-García M.**, **Bujarrabal V.**, **Alcolea J.**, Montez R.
A new radio molecular line survey of planetary nebulae. HNC/HCN as a diagnostic of ultraviolet irradiation.
Astronomy and Astrophysics, 625, A101, 05/2019
<http://dx.doi.org/10.1051/0004-6361/201834408>
 - Agúndez M., Marcelino N., Cernicharo J., Roueff E., **Tafalla M.**
A sensitive λ 3 mm line survey of L483. A broad view of the chemical composition of a core around a Class 0 object.
Astronomy and Astrophysics, 625, A147, 05/2019
<http://dx.doi.org/10.1051/0004-6361/201935164>

- Rebollido I., Eiroa C., Montesinos B., Maldonado J., Villaver E., Absil O., Bayo A., Canovas H., Carmona A., Chen C., Ertel S., Garufi A., Henning T., Iglesias D. P., Launhardt R., ..., y **Rivière-Marichalar P.**
The co-existence of hot and cold gas in debris discs (Corrigendum).
Astronomy and Astrophysics, 625, C2, 05/2019
<http://dx.doi.org/10.1051/0004-6361/201732329e>
- Quintana-Lacaci G., Cernicharo J., Agúndez M., Fonfría J. P., Velilla-Prieto L., Sánchez Contreras C., **Bujarrabal V.**, Castro-Carrizo A., **Alcolea J.**
Hints of the Existence of C-rich Massive Evolved Stars.
The Astrophysical Journal, 876, 116, 05/2019
<http://dx.doi.org/10.3847/1538-4357/ab133e>
- **Tarrío P.**, Melin J.-B., Arnaud M.
ComPRASS: a Combined Planck-RASS catalogue of X-ray-SZ clusters.
Astronomy and Astrophysics, 626, A7, 06/2019
<http://dx.doi.org/10.1051/0004-6361/201834979>
- Cernicharo J., Gallego J. D., López-Pérez J. A., Tercero F., Tanarro I., Beltrán F., **de Vicente P.**, Lauwaet K., Alemán B., Moreno E., Herrero V. J., Doménech J. L., Ramírez S. I., Bermúdez C., Peláez R. J., ..., **Tercero B.**, et al.
Broad-band high-resolution rotational spectroscopy for laboratory astrophysics.
Astronomy and Astrophysics, 626, A34, 06/2019
<http://dx.doi.org/10.1051/0004-6361/201935197>
- Chen H. H.-H., Pineda J. E., Goodman A. A., Burkert A., Offner S. S. R., Friesen R. K., Myers P. C., Alves F., Arce H. G., Caselli P., **Chacón-Tanarro A.**, Chen M. C.-Y., Di Francesco J., Ginsburg A., Keown J., et al.
Droplets. I. Pressure-dominated Coherent Structures in L1688 and B18.
The Astrophysical Journal, 877, 93, 06/2019
<http://dx.doi.org/10.3847/1538-4357/ab1a40>
- Chung E. J., Lee C. W., Kim S., Kim G., Caselli P., **Tafalla M.**, Myers P. C., Soam A., Liu T., Gopinathan M., Kim M., Kim K. H., Kwon W., Kang H., Lee C.
TRAO Survey of Nearby Filamentary Molecular Clouds, the Universal Nursery of Stars (TRAO FUNS). I. Dynamics and Chemistry of L1478 in the California Molecular Cloud.
The Astrophysical Journal, 877, 114, 06/2019
<http://dx.doi.org/10.3847/1538-4357/ab12d1>
- Holdship J., Jimenez-Serra I., Viti S., Codella C., Benedettini M., Fontani F., **Tafalla M.**, **Bachiller R.**, Ceccarelli C., Podio L.
Sulfur Chemistry in L1157-B1.
The Astrophysical Journal, 878, 64, 06/2019
<http://dx.doi.org/10.3847/1538-4357/ab1cb5>

- Loison J.-C., Wakelam V., Gratier P., Hickson K. M., Bacmann A., Agúndez M., Marcelino N., Cernicharo J., Guzman V., Gerin M., Goicoechea J. R., Roueff E., Petit F. L., Pety J., **Fuente A.**, et al.
Oxygen fractionation in dense molecular clouds.
Monthly Notices of the Royal Astronomical Society, 485, 5777, 06/2019
<http://dx.doi.org/10.1093/mnras/stz560>
- Aalto S., Muller S., König S., Falstad N., Mangum J., Sakamoto K., Privon G. C., Gallagher J., Combes F., **García-Burillo S.**, Martín S., Viti S., van der Werf P., Evans A. S., Black J. H., et al.
The hidden heart of the luminous infrared galaxy IC 860. I. A molecular inflow feeding opaque, extreme nuclear activity.
Astronomy and Astrophysics, 627, A147, 07/2019
<http://dx.doi.org/10.1051/0004-6361/201935480>
- **Rivière-Marichalar P.**, **Fuente A.**, Baruteau C., Neri R., Treviño-Morales S. P., Carmona A., Agúndez M., **Bachiller R.**
Gas Accretion within the Dust Cavity in AB Aur.
The Astrophysical Journal, 879, L14, 07/2019
<http://dx.doi.org/10.3847/2041-8213/ab289d>
- Pereira-Santaella M., Rigopoulou D., Magdis G. E., Thatte N., Alonso-Herrero A., Clarke F., Farrah D., **García-Burillo S.**, Hogan L., Morris S., Rodrigues M., Huang J.-S., Tecza M.
Optical integral field spectroscopy of intermediate redshift infrared bright galaxies.
Monthly Notices of the Royal Astronomical Society, 486, 5621, 07/2019
<http://dx.doi.org/10.1093/mnras/stz1218>
- **Rivière-Marichalar P.**, **Fuente A.**, Goicoechea J. R., Pety J., Le Gal R., Gratier P., Guzmán V., Roueff E., Loison J. C., Wakelam V., Gerin M.
Abundances of sulphur molecules in the Horsehead nebula. First NS+detection in a photodissociation region.
Astronomy and Astrophysics, 628, A16, 08/2019
<http://dx.doi.org/10.1051/0004-6361/201935354>
- Alonso-Herrero A., **García-Burillo S.**, Pereira-Santaella M., Davies R. I., Combes F., Vestergaard M., Raimundo S. I., Bunker A., Díaz-Santos T., Gandhi P., García-Bernete I., Hicks E. K. S., Hönl S. F., Hunt L. K., Imanishi M., et al.
Nuclear molecular outflow in the Seyfert galaxy NGC 3227.
Astronomy and Astrophysics, 628, A65, 08/2019
<http://dx.doi.org/10.1051/0004-6361/201935431>

- Urso R. G., Palumbo M. E., Ceccarelli C., Balucani N., Bottinelli S., Codella C., Fontani F., Leto P., Trigilio C., Vastel C., **Bachiller R.**, Baratta G. A., Buemi C. S., Caux E., Jaber Al-Edhari A., et al.
C2O and C3O in low-mass star-forming regions.
Astronomy and Astrophysics, 628, A72, 08/2019
<http://dx.doi.org/10.1051/0004-6361/201834322>
- Bittner A., Falcón-Barroso J., Nedelchev B., Dorta A., Gadotti D. A., Sarzi M., Molaeinezhad A., Iodice E., Rosado-Belza D., de Lorenzo-Cáceres A., Fragkoudi F., Galán-de Anta P. M., Husemann B., Méndez-Abreu J., Neumann J., et al.
The GIST pipeline: A multi-purpose tool for the analysis and visualisation of (integral-field) spectroscopic data.
Astronomy and Astrophysics, 628, A117, 08/2019
<http://dx.doi.org/10.1051/0004-6361/201935829>
- **Jiménez-Donaire M. J.**, Bigiel F., Leroy A. K., **Usero A.**, Cormier D., Puschnig J., Gallagher M., Kepley A., Bolatto A., **García-Burillo S.**, Hughes A., Kramer C., Pety J., Schinnerer E., Schrubba A., et al.
EMPIRE: The IRAM 30 m Dense Gas Survey of Nearby Galaxies.
The Astrophysical Journal, 880, 127, 08/2019
<http://dx.doi.org/10.3847/1538-4357/ab2b95>
- D'Agostino J. J., Kewley L. J., Groves B. A., Medling A. M., Di Teodoro E., Dopita M. A., Thomas A. D., Sutherland R. S., **García-Burillo S.**
Separating line emission from star formation, shocks, and AGN ionization in NGC 1068.
Monthly Notices of the Royal Astronomical Society, 487, 4153, 08/2019
<http://dx.doi.org/10.1093/mnras/stz1611>
- Tang X. D., Henkel C., Menten K. M., Gong Y., Martín S., Mühle S., Aalto S., Muller S., **García-Burillo S.**, Levshakov S., Aladro R., Spaans M., Viti S., Asiri H. M., Ao Y. P., et al.
ALMA view of the 12C/13C isotopic ratio in starburst galaxies.
Astronomy and Astrophysics, 629, A6, 09/2019
<http://dx.doi.org/10.1051/0004-6361/201935603>
- Montesinos B., Eiroa C., Lillo-Box J., Rebollido I., Djupvik A. A., Absil O., Ertel S., Marion L., Kajava J. J. E., Redfield S., Isaacson H., Cánovas H., Meeus G., Mendigutía I., Mora A., ..., **Rivière-Marichalar P.**, et al.
HR 10: a main-sequence binary with circumstellar envelopes around both components. Discovery and analysis.
Astronomy and Astrophysics, 629, A19, 09/2019
<http://dx.doi.org/10.1051/0004-6361/201936180>

- Cabezas C., Bermúdez C., Gallego J. D., **Tercero B.**, Hernández J. M., Tanarro I., Herrero V. J., Doménech J. L., Cernicharo J.
The millimeter-wave spectrum and astronomical search of succinonitrile and its vibrational excited states.
Astronomy and Astrophysics, 629, A35, 09/2019
<http://dx.doi.org/10.1051/0004-6361/201935899>
- Treviño-Morales S. P., **Fuente A.**, Sánchez-Monge Á., Kainulainen J., Didelon P., Suri S., Schneider N., Ballesteros-Paredes J., Lee Y.-N., Hennebelle P., Pilleri P., González-García M., Kramer C., **García-Burillo S.**, Luna A., et al.
Dynamics of cluster-forming hub-filament systems. The case of the high-mass star-forming complex Monoceros R2.
Astronomy and Astrophysics, 629, A81, 09/2019
<http://dx.doi.org/10.1051/0004-6361/201935260>
- Díaz-Luis J. J., **Alcolea J.**, **Bujarrabal V.**, **Santander-García M.**, Castro-Carrizo A., **Gómez-Garrido M.**, **Desmurs J.-F.**
Circumstellar envelopes of semi-regular long-period variables: mass-loss rate estimates and general model fitting of the molecular gas.
Astronomy and Astrophysics, 629, A94, 09/2019
<http://dx.doi.org/10.1051/0004-6361/201936087>
- Sánchez Contreras C., Báez-Rubio A., **Alcolea J.**, Castro-Carrizo A., **Bujarrabal V.**, Martín-Pintado J., Tafoya D.
A rotating fast bipolar wind and disk system around the B[e]-type star MWC 922.
Astronomy and Astrophysics, 629, A136, 09/2019
<http://dx.doi.org/10.1051/0004-6361/201936057>
- Kim J., Cho S.-H., **Bujarrabal V.**, Imai H., Dodson R., Yoon D.-H., Zhang B.
Time variations of H₂O and SiO masers in the proto-Planetary Nebula OH 231.8+4.2.
Monthly Notices of the Royal Astronomical Society, 488, 1427, 09/2019
<http://dx.doi.org/10.1093/mnras/stz1830>
- Leaman R., Fragkoudi F., **Querejeta M.**, Leung G. Y. C., Gadotti D. A., Husemann B., Falcón-Barroso J., Sánchez-Blázquez P., van de Ven G., Kim T., Coelho P., Lyubenova M., de Lorenzo-Cáceres A., Martig M., Martínez-Valpuesta I., et al.
Survival of molecular gas in a stellar feedback-driven outflow witnessed with the MUSE TIMER project and ALMA.
Monthly Notices of the Royal Astronomical Society, 488, 3904, 09/2019
<http://dx.doi.org/10.1093/mnras/stz1844>
- Nagy Z., Spezzano S., Caselli P., Vasyunin A., **Tafalla M.**, Bizzocchi L., Prudenzano D., Redaelli E.
The chemical structure of the very young starless core L1521E.

Astronomy and Astrophysics, 630, A136, 10/2019

<http://dx.doi.org/10.1051/0004-6361/201935568>

- Coutens A., Liu H. B., Jiménez-Serra I., Bourke T. L., Forbrich J., Hoare M., Loinard L., Testi L., Audard M., Caselli P., **Chacón-Tanarro A.**, Codella C., Di Francesco J., Fontani F., Hogerheijde M., et al.

VLA cm-wave survey of young stellar objects in the Oph A cluster: constraining extreme UV- and X-ray-driven disk photoevaporation. A pathfinder for Square Kilometre Array studies.

Astronomy and Astrophysics, 631, A58, 11/2019

<http://dx.doi.org/10.1051/0004-6361/201935340>

- Audibert A., Combes F., **García-Burillo S.**, Hunt L., Eckart A., Aalto S., Casasola V., Boone F., Krips M., Viti S., Muller S., Dasyra K., van der Werf P., Martín S.
ALMA captures feeding and feedback from the active galactic nucleus in NGC 613.

Astronomy and Astrophysics, 632, A33, 12/2019

<http://dx.doi.org/10.1051/0004-6361/201935845>

- **García-Burillo S.**, Combes F., Ramos Almeida C., **Usero A.**, Alonso-Herrero A., Hunt L. K., Rouan D., Aalto S., **Querejeta M.**, Viti S., van der Werf P. P., Vives-Arias H., **Fuente A.**, Colina L., Martín-Pintado J., et al.

ALMA images the many faces of the NGC 1068 torus and its surroundings.

Astronomy and Astrophysics, 632, A61, 12/2019

<http://dx.doi.org/10.1051/0004-6361/201936606>

- Schinnerer E., Hughes A., Leroy A., Groves B., Blanc G. A., Kreckel K., Bigiel F., Chevance M., Dale D., Emsellem E., Faesi C., Glover S., Grasha K., Henshaw J., Hygate A., ..., **Querejeta M.**, et al.

The Gas-Star Formation Cycle in Nearby Star-forming Galaxies. I. Assessment of Multi-scale Variations.

The Astrophysical Journal, 887, 49, 12/2019

<http://dx.doi.org/10.3847/1538-4357/ab50c2>

- Ballesteros-Paredes J., Román-Zúñiga C., Salomé Q., Zamora-Avilés M., **Jiménez-Donaire M. J.**

What is the physics behind the Larson mass-size relation?.

Monthly Notices of the Royal Astronomical Society, 490, 2648, 12/2019

<http://dx.doi.org/10.1093/mnras/stz2575>