



NEWSLETTER

OPTICON-
RADIONET PILOT



NEWSLETTER #7

Latest updates for the ORP Consortium

Dear ORP Consortium members,

As the first periodic report is being finalised, we would like to acknowledge the hard work of our administrative teams over the past months. As the project slowly got underway, the management bodies did their best to create a solid and united base. May the second phase build on these communities to create the TNA of tomorrow.

Before the holiday season sets in, the annual EAS meeting in Valencia (Spain) gave many of us the opportunity to meet. The strong representation of ORPs showed the potential and opportunities of this network. We hope that when we return, ORP will be able to move to the next level, but in the meantime we wish you all a good summer holiday!

Have a good read,

The ORP team

Current ORP TNA Opportunities Open

ORP Transnational Access opportunities presently open:

- [100-m Effelsberg radio telescope](#)
- [European ARC Network](#)

Fill ORP survey to assess users' needs for astronomical infrastructures



ORP offers access to many of the world's premier optical/IR and radio telescopes and arrays. It aims to develop various services to aid scientific users and facilities. These services include a common proposal submission platform, archival tools, training activities and enhanced user-support, as well as supporting multi-instrument and multi-wavelength projects, and much more. In order to help fulfil the expectations of the user communities we are performing a short survey to help assess needs. Please support us by completing the following short (~3-min) questionnaire. All responses are anonymous. The questionnaire can be accessed [here](#).

Input requested for ASTRONET's Science Vision and Infrastructure Roadmap



[ASTRONET](#) is working on the next Science Vision and Infrastructure Roadmap to include all aspects of European astronomy. Find [here](#) the latest drafts of the science and cross-cutting chapters, along with the draft summary and recommendations and how to provide feedback. Deadline for inputs: 30 August 2022.

Visit of the ORP Coordinator and a team of optical astronomers at the NOEMA (IRAM)

On 14 June 2022, ORP Coordinator, Dr. Stéphane Basa, ORP Project Assistant, Hélène Dworak and a group of optical astronomers took advantage of a blue sky to visit the NOEMA (Northern Extended Millimetre Array) located at Pic-de-Bure in the French Alps. Dr. Karl Schuster, Director of IRAM, welcomed them to this exceptional site and provided them with the opportunity to learn more about the functioning of the observatory and its twelve antennas. This visit aimed to improve the practical understanding of radio observations and to better understand the specificity of this domain.



Picture: from left to right - Alan Watson (UNAM), Stéphane Basa (LAM), François Dolon (OHP), Hélène Dworak (CNRS), Karl Schuster (IRAM) and Jean-Gabriel Cuby (CFHT) at the NOEMA.

ORP at the EAS 2022 Meeting

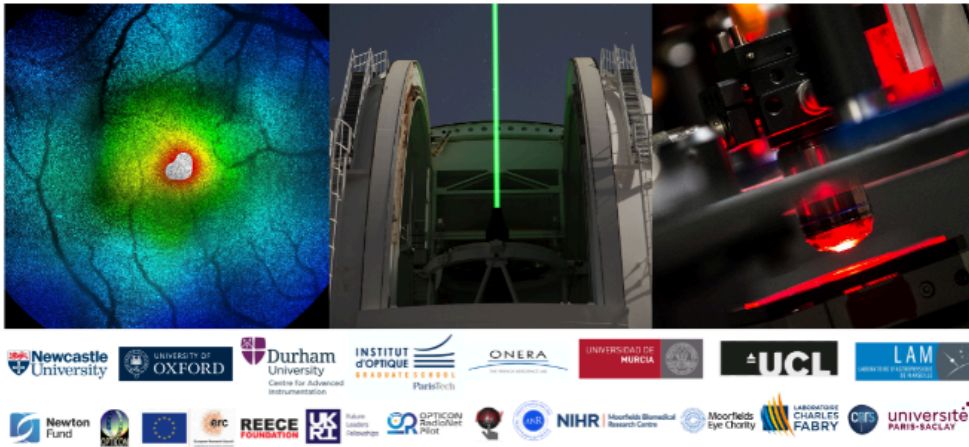


Sunny Valencia in Spain hosted about 1800 scientists from around the globe at the European Astronomical Society (EAS 2022) Annual Meeting. One of the special sessions, held on Thursday 30 June 2022, was the "European Forum of Astronomical Communities", which included several presentations about the ORP Project. Find more information [here](#).

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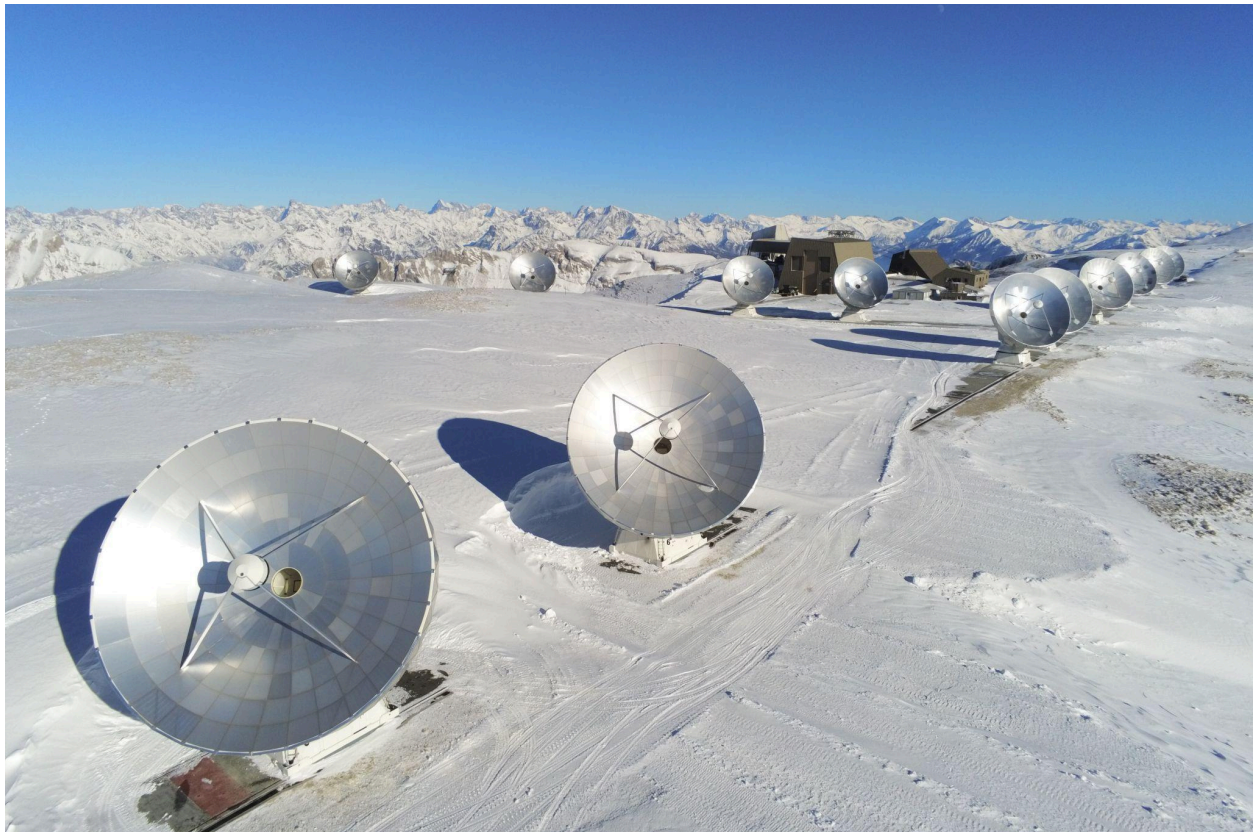
In Autumn 2022, we will start the publication of an ORP newsletter aimed at the international astronomical community to showcase the benefits of bringing the optical and radio astronomical ground-based communities together in the ORP framework. Subscription for the newsletter is available [here](#). Please help us spread the update to reach out to as many people as possible.

Adaptive Optics European Summer School



The European Adaptive Optics school was organised on 13-17 June 2022. This is the second edition, and as last year, it has been a success with 65 students registered. Attendees were coming from all countries, Europe, North America, Asia and South America. Attendees were mostly PhD students, along with some master students but also industry professionals who wanted to increase their skills in Adaptive Optics. The classes covered a wide range of topics for AO, but also included a virtual tour of the Very Large Telescope, a tour of some of the main AO benches in operations in Europe and a simulation workshop. On top of the classes, the students participated in industry demos, a career panel discussion and a talk on equity. The feedback received was extremely positive, and next year the school will be organised in person.

11th IRAM Millimetre Interferometry School Announcement



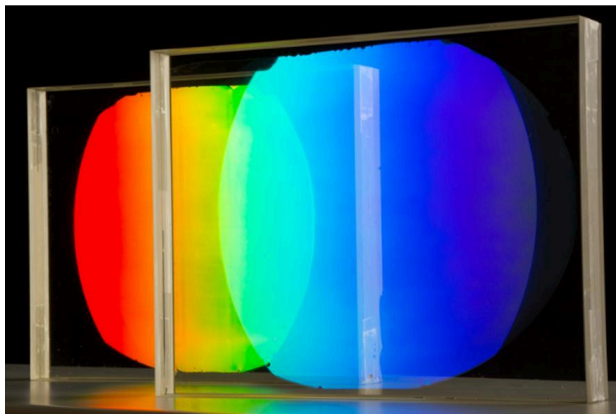
The 11th IRAM millimetre interferometry school will take place on 21-25 November 2022 at the IRAM headquarters (Grenoble, France). The school is organised by IRAM in the framework of the ORP project. Deadline for registration is on 1 September 2022. More information [here](#).

2022 NEON Observing School Application Opens



The 2022 NEON Observing School will be hosted by the Observatoire de Haute-Provence in Southern France on 2-15 October 2022. The school that is funded by ORP provides hands-on observing experience on professional telescopes. Deadline for applications is 22 July 2022. More information [here](#).

Volume Phase Holographic Gratings (VPHGs) in ORP



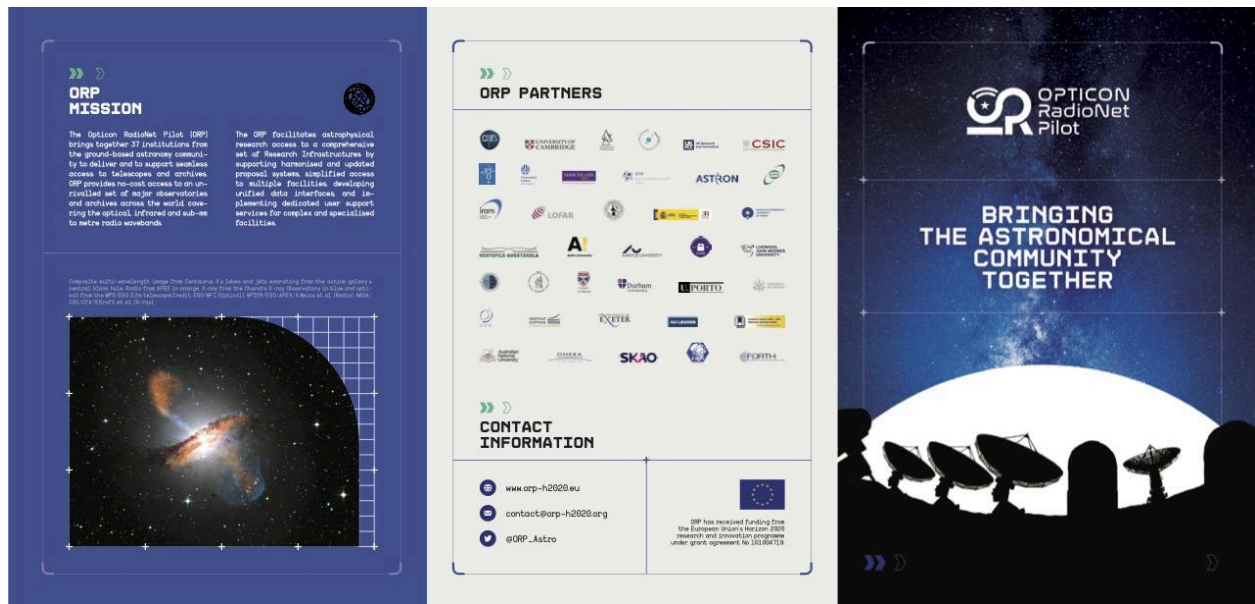
In the ORP framework, some technological activities are carried out. One of these, JA3.1 “Optimising dispersive elements – Volume Phase Holographic Gratings”, is devoted to the development of VPHG dispersive elements to improve the observing capabilities of the facilities available to the Pilot community. This WP will contribute to a “simplified and more efficient trans-national access to a wider and integrated set of advanced research infrastructure services”. The process follows different steps starting with the call for proposal and finishing with the test and commissioning of the dispersing elements. Find out more on the [JA3.1 webpage](#).

Official Inauguration of NOEMA



On 30 September 2022, the inauguration of the NOEMA Observatory by Antoine Petit (CNRS President), Martin Stratmann (MPG President) and Karl Schuster (IRAM Director) will take place; official addresses with an introductory statement by Prof. Reinhard Genzel, Physics Nobel Laureate 2020, in the Superdévouly ski resort.

ORP Brochure published



Download the ORP brochure [here](#).

ORP Activities

During the period 15 May 2022 - 15 July 2022 the following activities have been organised:

WP6-14 TA/VA Radio | 23 May 2022 | The TA/VA group met online on 23 May 2022. The TA leaders gave updates on their infrastructure. Almost all activities are on track; except Sardinia Radio Telescope where a major upgrade is still ongoing. So far, there is no reason for concerns. Furthermore, most of the radio infrastructures are opening for visitors, therefore first allocations of travel support are needed. The group agreed on allocating the travel budget for 2022. The project manager I. Rottmann gave an update on the ORP project and management activities and explained the processes, timeline and focus of the 1st periodic report.

JA2 Seamless performance Core group | 14 June 2022 - On 14 June 2022 the JA2 core group met. R. Beswick, leader of JA2 and I. Rottmann, ORP project manager gave an update on the status of the project in general and on the status, requirements and timeline of the first periodic report. The subtask leaders reported on their activities:

- JA2.1: P. Harrison asked partners to submit comments on the proposal data model now - at a later status, modifications would be much more difficult. Challenges: Linking component and organisation of “data uniformity”. The ProposalDataModel can be integrated [here](#).
- JA2.2: M. Verkouter reported on behalf of L. Wyrzykowski and P. Zielinski that BHTOM made a lot of progress in the areas of data processing, network and multi-wavelength. The work with Tom Tool KIT started at JIV-ERIC - basic infrastructure is possible within the Tom Tool Kit. A link with AEON and with R. Street (LCO) has been set up.
- JA2.3 and J2.4: Leaders apologised before the meeting, and have not reported any major difficulties within their tasks.
- JA2.5: G. J. Jozsa reported that contact to the Centre for the Protection of the Dark and Quiet Sky from Satellite Constellation (CPS) was successfully set up. A poll on EMI monitoring received 19 responses, 35% from radio stations, 25% from optical. G. J. Jozsa stressed that more feedback/input from the optical side would be welcome. Positive outcome of the poll: Huge willingness to share information. 85% would share EMI information.

JA1.5 Preserving the skies | 24 June 2022 - The JA1.5 Preserving the skies group met online on 24 June 2022. G. J. Jozsa represented the JA1.5 leader M. Kramer. As preparation time for JA1.5 is over, the JA organisers suggest a restructuring of the group. Meetings of the whole JA1.5 group are supposed to happen quarterly and ad hoc groups on defined tasks will be defined. Each ad hoc group should have a manager and each group is supposed to meet at a suitable frequency. The managers of the ad hoc groups will meet monthly to track progress. The organisation of the tasks will make use of an independent Redmine project open to experts who are not ORP members, which has already been implemented. This Redmine project is shared with JA2.5 (technical solutions). The status of the actions decided on at the last meetings were systematically checked by G. J. Jozsa, I. Rottmann and J. Casado Iglesias. Delightfully, many tasks were found to have been completed or addressed.

JA2.5 Preserving the sky for future generations | 29 June 2022 - The JA2.5 Preserving the skies group met online on 29 June 2022. G. J. Jozsa represented the JA2.5 leader M. Kramer. As for JA1.5 the JA organisers suggest a restructuring of the group. Meetings of the whole JA2.5 group are supposed to happen quarterly and ad hoc groups on defined tasks will be defined. Each ad hoc group should have a manager and each group is supposed to meet at a suitable frequency. The managers of the ad hoc groups will meet monthly to track progress. The organisation of the tasks will make use of an independent Redmine project open to experts who are not ORP members, which has already been implemented. This Redmine project is shared with JA1.5 (advocacy tools). The status of the actions decided on at the last meetings were checked. Many tasks were found to have been completed or addressed.

JA2.2a Time-Domain Multi-Facility & Multi-Frequency access to Research Infrastructures | 30 June 2022 – The JA2.2a group met online on 30 June 2022 for the monthly update meeting. Pawel Zielinski shared a presentation on the BHTOM progress. Since April, all relevant indicators, such as the number of registered users, telescopes and FITS files managed have increased. The INAF group was contacted for linking the REM telescope archive to BHTOM: the group received Perl code which is now being translated to Python; the access to the REM

archive seems simple enough. Concerning the EVN TOM Toolkit plugin, for the investigation of an interface for dynamic scheduling, Torun staff will be contacted. For developments towards the next milestone, work on the science cases to drive the part of the requirements for the plugin should be coordinated with both the radio and optical parts of the project, to check the division between radio/optical and identify commonalities. Concerning the AEON network and protocol, the REM telescope had been identified as the first candidate for addition to AEON network. Contact with the AEON network and staff will be initiated soon. The goal is to learn from the Las Cumbres staff how to join the AEON network and get documentation on the AEON protocol.

ORP Outputs

Scientific Publications:

- Gezer, I., et al., 2022, A&A submitted, "Early recognition of Microlensing Events from Archival Photometry with Machine Learning Methods" - to be published
- [Kruszyńska, Katarzyna, et al., 2021, A&A in press, "Lens parameters for Gaia18cbf -- a long gravitational microlensing event in the Galactic plane"](#)
- [Fiore, A., et al., 2022, Monthly Notices of the Royal Astronomical Society, 512, "Close, bright, and boxy: the superluminous SN 2018hti"](#)
- [Schwope, Axel, et al., 2022, Astronomy and Astrophysics, 661, "Discovery of eRASSt J192932.9-560346: A bright, two-pole accreting, eclipsing polar"](#)
- [Doroshenko, V., et al., 2022, Astronomy and Astrophysics, 661, "SRGA J124404.1-632232/SRGU J124403.8-632231: New X-ray pulsar discovered in the all-sky survey by the SRG"](#)
- [Dobie, D., et al., 2022, Monthly Notices of the Royal Astronomical Society, 510, "A comprehensive search for the radio counterpart of GW190814 with the Australian Square Kilometre Array Pathfinder"](#)
- [Wrona, Marcin, et al., 2022, The Astrophysical Journal Supplement Series, 259, "The OGLE Collection of Variable Stars: One Thousand Heartbeat Stars in the Galactic Bulge and Magellanic Clouds"](#)
- [Cruz-Sáenz de Miera, Fernando, et al., 2022, The Astrophysical Journal, 927, "Recurrent Strong Outbursts of an EXor-like Young Eruptive Star Gaia20eae"](#)
- [Irani, I., et al., 2022, The Astrophysical Journal, 927, "Less Than 1% of Core-collapse Supernovae in the Local Universe Occur in Elliptical Galaxies"](#)
- [Charalampopoulos, P., et al., 2022, Astronomy and Astrophysics, 659, "A detailed spectroscopic study of tidal disruption events"](#)
- [Salganik, Alexander, et al., 2022, Monthly Notices of the Royal Astronomical Society, 509, "On the nature of the X-ray pulsar XTE J1859+083 and its broad-band properties"](#)
- [Han, Cheongho, et al., 2022, Astronomy and Astrophysics, 658, "OGLE-2019-BLG-0468Lb,c: Two microlensing giant planets around a G-type star"](#)
- [Prentice, S. J., et al., 2021, Monthly Notices of the Royal Astronomical Society, 508, "Transitional events in the spectrophotometric regime between stripped envelope and superluminous supernovae"](#)
- [Wang, Qinan, et al., 2021, The Astrophysical Journal, 923, "SN 2018agk: A Prototypical Type Ia Supernova with a Smooth Power-law Rise in Kepler \(K2\)"](#)
- [Soszyński, I., et al., 2021, Acta Astronomica, 71, "Over 24 000 \$\delta\$ Scuti Stars in the Galactic Bulge and Disk from the OGLE Survey"](#)

Upcoming ORP-related Activities & Events

- [GA2022: XXXI IAU General Assembly](#) | 2-11 August 2022, Busan, Republic of Korea

- [European Radio Interferometry School \(ERIS 2022\)](#) | 19-23 September 2022, Dwingeloo, the Netherlands
- [2022 NEON Observing School](#) – 02-15 October 2022 - Saint-Michel-l'Observatoire, France
- [11th IRAM Interferometry School](#) | 21-25 November 2022, Grenoble, France
- [SPIE Astronomical Telescopes + Instrumentation 2022](#) | 17-22 July 2022, Montréal, Québec, Canada



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