CURRICULUM VITAE

FORMATO EUROPEO/EUROPEAN FORMAT

INFORMAZIONI PERSONALI/ PERSONAL INFORMATION

Nome, Cognome/Name, Surname	Virginia D'Auria
Indirizzo/Address	Institut de Physique de Nice, Université Côte d'Azur-CNRS
Via, numero civico, c.a.p., città, nazione/ House number, street name, postcode, city, country	Avenue J. VALLOT, 06108 Nice Cedex 2 France
Telefono/Telephone	[redacted]
Fax	[redacted]
E-mail	[redacted]
Sito web/Website	http://sites.unice.fr/virginiadauria/
Nazionalità/Nationality	Italian
Luogo e data di nascita/ Place and Date of birth	[redacted]

ESPERIENZA PROFESSIONALE/ WORK EXPERIENCE

Data/Date	Since Sep. 2010 (permanent position)
Nome e indirizzo del datore di lavoro / Name and address of employer	University Côte d'Azur (France)
Tipo o settore di attività / Type of business or sector	Quantum optics, Quantum Information and communication
Funzione o posto occupato / Occupation or position held	Maître de Conférences – HDR : Assistant professor with Habilitation à Diriger des Recherches (qualification to conduct self-contained university teaching and researches)
Principali mansion e responsabilità / Main activities and responsibilities	Researcher-Professor **See the last pages of this CV.**
In ordine di data /Dates (from – to)	Giu.2008-Mag.2010

Nome e indirizzo del datore di lavoro / Name and address of employer	CNRS (Conseil National de la Recherche Scientifique) at Laboratoire Kastler Brossel (Ecole Normale Superieure-Paris Sorbonne-CNRS), Paris (France)
Tipo o settore di attività / Type of business or sector	Quantum optics, Quantum Information and communication
Funzione o posto occupato / Occupation or position held	***Marie Curie IEF Post-doc fellowship*** ("Intra-European Fellowships for Career Development", projet 220395, QuantManip) *c/o the Quantum Optics group coordinated by C. Fabre at the Laboratoire Kastler Brossel (France).*
Principali mansion e responsabilità / Main activities and responsibilities	Principal investigator of the project "QuantManip" on "Conditional preparation of quantum states", funded by a Marie Curie IEF post-doctoral fellowship. Aim of the project was the study of novel techniques and tools for quantum state engineering
In ordine di data /Dates (from – to)	Oct.2007-Mar.2008
Nome e indirizzo del datore di lavoro / Name and address of employer	CNR-INFM, at Università di Napoli Federico II (Italia)
Tipo o settore di attività / Type of business or sector	Quantum optics, Quantum Information and communication
Funzione o posto occupato / Occupation or position held	Collaborazione Coordinata e Continuativa
Principali mansion e responsabilità / Main activities and responsibilities	Co.co.co. on the project: "Realizzazione di un sistema ottico per l'ottimizzazione delle caratteristiche spaziali di un fascio laser per i processi di lavorazione meccanica", in the context of project FIBLAS, c/o gruppo di Ottica e Fenomeni Ultraveloci led by Prof. Corrado De Lisio.
In ordine di data /Dates (from – to)	Set.2006-Aug.2007
Nome e indirizzo del datore di lavoro / Name and address of employer	Laboratoire Kastler Brossel (Ecole Normale Superieure -Paris Sorbonne-CNRS), Paris (France)
Tipo o settore di attività / Type of business or sector	Quantum optics, Quantum Information and communication
Funzione o posto occupato / Occupation or position held	**Post-doc fellowship**, "Bourse the recherche pour l'accueil de chercheurs étrangers" from the "Ville de Paris" after competitive selection c/o the Quantum Optics group coordinated by C. Fabre at the Laboratoire Kastler Brossel.
Principali mansion e responsabilità / Main activities and responsibilities	Aim of the project was the generation and characterization of non-classical light emitted by an optical parametric oscillator above threshold.
In ordine di data /Dates (from – to)	Mar. 2006-Sett.2006

Nome e indirizzo del datore di lavoro / Name and address of employer	Università di Napoli Federico II (Italia)
Tipo o settore di attività / Type of business or sector	Quantum optics, Quantum Information and communication
Funzione o posto occupato / Occupation or position held	Borsista post-dottorato dell'Università di Napoli Federico II, Italia
Principali mansion e responsabilità / Main activities and responsibilities	Borsa di studio sulla generazione e caratterizzazione di entanglement bipartito a variabili continue - gruppo di ottica quantistica diretto da Salvatore Solimeno.

ISTRUZIONE E FORMAZIONE / EDUCATION AND TRAINING

In ordine di data /Dates (from – to)	Nov.2002-Dic.2005
Nome e tipo d'istituto di istruzione o formazione / Name and type of organisation providing education and training	*Università di Napoli Federico II (Italy)*
Principali materie e competenze professionali apprese / Principal subjects occupational skills covered	**PhD in Fundamental and Applied Physics** at the University of Naples "Federico II" (Italy), supervised by prof. S. Solimeno and prof. M.G.A. Paris: PhD thesis on continuous variables quantum optics (theory and experiments). Thesis Title: "Dynamics and Behaviour of Triply Resonant OPOs below the threshold". PhD degree obtained with top marks on the 13th December 2005. Skills in: - experimental and theoretical quantum optics - quantum communications - nonlinear optics - optical cavities - homodyne detection and interferometry - optical parametric oscillators below the oscillation threshold (OPO) - characterization and manipulations of entangled states - electronics and control systems - quantum tomography - Langevin equations and numerical simulations for the study of OPO. Winner of a PhD Scholarship of the Università di Napoli Federico II
qu Livello nella classificazione nazionale o internazionale / Level in National classification	8 (doctoral)
In ordine di data /Dates (from – to)	*Set.1997-Ott.2002*

Nome e tipo d'istituto di istruzione o formazione / Name and type of organisation providing education and training	*Università di Napoli Federico II (Italy)*
Principali materie e competenze professionali apprese / Principal subjects occupational skills covered	**Laurea Magistralis in Physics** a Università Federico II di Napoli, Italy (vecchio ordinamento), with a specialization in Solid State Physics. Master degree thesis (in Italian) supervised by profs. S.Solimeno, E.Santamato on experimental quantum optics. Thesis Title: "Study of a cryptographic protocol realized by means of Quantum Optics resources". Master degree obtained with top marks (110/110 cum laude) on the 30 October 2002. Skills in: - experimental and theoretical quantum optics - quantum communications and cryptography - optical parametric oscillators above the oscillation threshold (OPO) - characterization and manipulations of brigth entangled states *Winner of an Istituto Nazionale di Fisica della Materia (INFM) undergraduate student scholarship for excellent students*
qu Livello nella classificazione nazionale o internazionale / Level in National classification	7 (master or equivalent)

ATTIVITA' DI RICERCA / RESEARCH ACTIVITIES

Attuali campi di ricerca / Research sectors	Quantum optics, Quantum Information and communication, Non-linear optics, Guided-wave optics.

Recenti attività scientifiche/
Recent Scientific Activities.

Hired in September 2010, already in 2011 I started leading, in the context of the activities of the "Quantum Photonics and Information" (QPI) group an ambitious project on entangled photon sources synchronization for quantum networking and communication. In 2015, in the context of a collaboration with the Nation Institute of Optics of Florence (IT), I developed at INPHYNI an original research line on continuous variable quantum communication exploiting guided-wave optics. In 2018, I started a new research line on hybrid entanglement between photon- and wave-like optical qubits.
A detail of my research leading activity, including the young scientists I supervised in the frame of each project, is provided below.

Starting on January 2018: **Principal Investigator of a research line on light hybrid entanglement**:
Aim of the project is to investigate fundamental aspects and capabilities of hybrid entanglement between particle-like and wave-like optical qubits. Possible applications of hybrid-entangled state to quantum information science will also be studied. The project opens a *new* research line in the context of the activity of the "Quantum Photonics and Information" group.

- 2018-2022: The project is funded by ANR-appel à projet overt, défi de tous les savoirs, project "Hy-Light" for "Hybrid Quantum Light" – **Project Leader: Virginia D'Auria**; fundings to INPHYNI
- The project is conducted in collaboration with the group of Julien Laurat at Laboratoire Kastler Brossel and, for the theoretical aspects, with that of Pérola Milmann and Thomas Coudreau at Laboratoire Matériaux et Phénomènes Quantiques.
- In total 2 PhD students and 1 master-degree student are hired on this project.

2011-2017: **Principal Investigator of a research line on ultra-fast and long-distance quantum communication based on entanglement-swapping:**
Aim of the project is to demonstrate the potentiality and the feasibility of an original synchronization scheme allowing implementing quantum networks based on entanglement swapping in single-photon regime. The project is part of the "Quantum Photonics and Information" group activity on long-distance quantum communication; within this frame, it allowed developing a research line on entanglement swapping in ultra-fast regime.
This project received multiple fundings:

- 2011-2014, ANR emergence "Conneqt" for "distributed clock synChrONization for future loNg distancE Quantum cryptography" – **Project Leader: Virginia D'Auria**;
  2011-2013, Région PACA –volet exploratoire – **Project Leader: Virginia D'Auria**;
  2011-2013, PEPS of CNRS-INSIS – **Project Leader: Virginia D'Auria**;
  2015-2016, Crédits Scientifiques incitatifs UNS – **Project Leader: Virginia D'Auria**; *cofunded by INPHYNI with a* Bonus Qualité Recherche (BQR)
- The project benefitted of technological support from two industrial partners: IdQuantique and Prysmyan. In this context, I precise that both are leaders of their respective market sector: IdQuantique is world leader for commercial quantum cryptography; the Prysmyan group is world leader for optical fibres.
- The project has been conducted in collaboration with the partner France Innovation Scientifique et Transfert (FIST SA) that was in charge of the result valorisation. With their assistance and in collaboration with Osha Liang LLP (Intellectual Property Lawyers), the synchronization scheme at the hearth of the project has been secured by 1 international patent (CNRS patent N. FR11/58857 du 30/09/2011 already delivered in Europe, in USA and Japan, pending in China)
- In total 2 PhD students and 1 Post-doctoral fellow have been hired on this project.

Since 2015: **Principal investigator of a research line on continuous variable quantum communication based on guide-wave and integrated optics:**
Aim of this research line is to exploit the capabilities of guided-wave and integrated optics to miniaturize continuous variable quantum optics experiments in view of their application to future out-of-the-laboratory quantum communication. This project has opened a *new* research line in the context of the activity of the "Quantum Photonics and Information" group.

- The project benefits from the collaboration with Alessandro Zavatta from the National Institut of Optics (INO) of Florence (IT). In this context, Virginia D'Auria obtained two CNRS invited researched grant (2015 and 2018) and three UNS invited professor grants (2016 and 2017) for A. Zavatta. The project also received a one-month staying allowance from Italian CNR (2016).
- The project exploits, for all the "on chip" implementations, the competencies and the facilities on Lithium Niobate technology of the QPI and of the Non-linear Integrated Optics groups at INPHYNI.
- 2 PhD students (one for the theoretical aspects and the other for the experimental aspects) are working on this project.
- Starting on Spring 2019, a new research line on continuous variable **multipartite frequency entanglement in $\chi^{(3)}$ media** has been opened in collaboration with Giuseppe Patera, from the University of Lille (FR). The aim is to investigate the possibility of generating cluster-state with micro-ring cavities on Silicium.

2008-2010: **Principal investigator of the project "QuantManip" on "Conditional preparation of quantum states", funded by a Marie Curie IEF post-doctoral fellowship**. Aim of the project was the study of novel techniques and tools for quantum state engineering.

Involvement in other research projects (last 5 years):

Since 2018: Participation to the project "Quantum@UCA", aiming at demonstrating a quantum cryptographic link connecting three sites of Nice region, space by approximately 30 km. The project has been funded by the French government through "Investments for the Future" of Université Côte d'Azur UCA-JEDI project. It benefits from the collaboration of multiple industrial partners, including Orange and IdQuantique (http://univ-cotedazur.fr/contenus-riches/actualites/fr/universite-cote-d2019azur-et-orange-collaborent-pour-la-mise-en-place-d2019une-experimentation-en-matiere-de-cryptographie-quantique#.XOsW8aZS_fY)).

Since 2016: Participation to a project on "Multipartite entanglement generation in silicon micro-ring". Aim of the project is to model and experimentally demonstrate the generation of multipartite and multicolour entanglement at the output of an on-chip silicon micro-ring. The project is developed in collaboration with National Institute of Optics (INO) of Florence (IT) and with the Institut National de la Recherche Scientifique de Varennes (Quebec, Canada).

2014-2017: Participation to the project "SPOCQ" for "Synchronized Pulses in Optical Cavities for Quantum optics and quantum information systems" funded by ANR-appel à projet overt, défi de tous les savoirs. Aim of the project is to investigate and exploit synchronous optical cavities operated in the pulsed regime as new tools for quantum optics and quantum information system.

2013-2017: Participation to the project "PICQUE" for "Photonic Integrated Compound Quantum Encoding" funded as FP7 European ITN project. Aim of the project is to investigate the capabilities and prove the feasibility of quantum architectures integrated on a single optical chip.

PhD thesis supervision:

2019-2022: M. Melalkia: “Hybrid variable quantum optics for quantum communication” – INPHYNI (PhD supervisor).
2018-2021: F. Brunel: “Generation of optical Hybrid entangled states” – INPHYNI (PhD supervisor).
2016-2019: E. Gouzien: “Optical systems for quantum technologies” – INPHYNI (co-supervisor with Sébastien Tanzilli).
2016-2019: F. Mondain: “Quantum state engineering and manipulation for continuous variable quantum information” – INPHYNI (co-supervisor with Sébastien Tanzilli).
2014-2017: B.Fedrici: “All optical synchronization for future long distance quantum cryptography” - INPHYNI (co-supervisor with Sébastien Tanzilli) –Defended on the 13/12/2017.
2011-2015: L.A.Ngah: “All optical synchronization for quantum networks” – INPHYNI (co-supervisor with Sébastien Tanzilli) –Defended on the 11/12/2015.
Jan-March 2009: N.Lee visiting PhD-student from Tokyo University on “Quantum decoherence of single photon counters” – Laboratoire Kastler Brossel.
2007-2008: S.Fornaro on “Full Characterization of Gaussian Bipartite Entangled States by a Single Homodyne Detector”– Université de Naples Federico II, Italy”.

INTERNATIONAL PUBLICATIONS and CONFERENCE PROCEEDINGS:

- 28 international peer-reviewed articles and 1 book chapter + 2 submitted +3 in preparation
- 33 international peer-reviewed conference proceedings

NATIONAL AND INTERNATIONAL RENOWN:

Scientific distinctions:
-2016-2020: “**Prime d’encadrement doctoral et de recherche**” (Ph.D. and Research Supervision bonus, PEDR, campagne 2016) for outstanding researchers.
- 2008-2010: **Marie Curie IEF Post-doc fellowship** Marie Curie fellowship.

Collective responsibilities (linked to Teaching activity):

Since 2019: Member of the scientific board for the formation EUR DS4H, Digital Science for Human (academic master) of the university of excellence University Côte d’Azur (Idex UCA Jedi).
Autumn 2018: Volunteer for the redaction of Quantum Mechanics question in the context of the national program UniSciel providing on-line science learning resources.
Since 2015: Member of the Electronics Department board of the University Nice Sophia Antipolis. The department gathers around 20 permanent members including professors and assistant professors.
Since 2012: Member of the committee for the “validation of acquired experience” (VAE) for the Master-pro Génie Bio Medical (department of electronics). The VAE committee evaluates professional competences acquired outside the education systems and allow establishing a possible equivalence with the skills (or part of the skills) acquired with a given academic diploma.
2012-2017: Member of the committee for the “validation of acquired experience” for the licence-pro Dosimetrie et Radioprotection (department of electronics).

Participation to scientific committees and Responsibilities as referee:
Since 2019: Member of the Steering committee for “Fondation Doeblin” (http://doeblin.unice.fr/spip.php?article2&lang=fr)
Since 2019: Member of the Steering committee for program “Matière, Lumière, Interactions” of the university of excellence University Côte d’Azur (Idex UCA Jedi, http://univ-cotedazur.fr/en/idex/programmes-structurants-ucajedi/matiere-lumiere-interactions)

Since 2019: Member of the FORUM NUMERICA organizing at the university of excellence University Côte d'Azur (Idex UCA Jedi) multidisciplinary presentations to understand the impact of digital science and society.
Since 2016: Member of the head of the scientific board and Expert for the section "photonics" for the academy 1 of the university of excellence University Côte d'Azur (Idex UCA Jedi). The scientific board promotes exchanges and collaboration between the different laboratories of the UCA, launches dedicated calls for projects and evaluate and class the project funding requests.
Since spring 2018: (Recurrent) External expert and project referee for the SIRTEQ: réseau francilien pour les technologies quantiques (French Network for Quantum Technologies)
Since 2017: Scientific expert for the Italian Minister of Education, University and Research (Ministero dell'istruzione, dell'università e della ricerca)
Oct. 2018: Scientific expert for the Italian Minister of Education, University and Research (Ministero dell'istruzione, dell'università e della ricerca) for the research program "PRIN, Progetti di Rilevante Interesse Nazionale"
Spring 2019: Member of the committee for the recruitment of an associated professor (permanent position) at the University Nice Sophia Antipolis.
Sept. 2018: Scientific expert for the Italian Minister of Education, University and Research (Ministero dell'istruzione, dell'università e della ricerca) for the young researcher program "Rita Levi Montalcini".
Spring 2018: Member of the committee for the recruitment of an associated professor (permanent position) at the University Nice Sophia Antipolis.
Apr. 2019: PhD thesis examiner (external referee) at the Université Paris Diderot, Paris (France)
Apr. 2019: PhD thesis examiner (external referee) at the TelecomParisTech, Paris (France)
Sept. 2018: PhD thesis examiner (external referee) at the Université Sorbonne, Paris (France)
Spring 2018: Member of the scientific committee for the international conference QCrypt 2018, held in Shanghai, China, August 2018.
Spring 2018: Member of the committee for the recruitment of an associated professor (permanent position) at the University Nice Sophia Antipolis.
Autumn 2016: External expert and project referee for the university of excellence Grenoble Alps.
Avr. 2015: Member of the committee for the recruitment of an associated professor (permanent position) at the University Paris Sud, Paris, FR.
May 2013: Member of the committee for the recruitment of a laboratory technician (permanent position) at the department of electronics of the University Nice Sophia Antipolis, Nice, FR.
Since 2007: (Regular) Referee for Physical Review Letters, Physical Review X, Physical Review A, Optics Letters, European Physics Letters, European Journal of Physics D, Applied Physics B, Optics Express, Nature Photonics, Scientific Reports, Journal of the Optical Society of America B, Photonics, Science Advances, Optica, Photonics, Science Advances, New Journal of Physics.

SCIENCE DISSEMINATION ACTIVITY

Science dissemination to specialists:
Since 2019: Member of the scientific board for the formation EUR DS4H, Digital Science for Human (academic master) of the university of excellence University Côte d'Azur (Idex UCA Jedi, http://univ-cotedazur.fr/en/eur/ds4h/research/forum-numerica#.XXI6JlDgrjA).
July 2019: Co-organizer of the panel "Quantum Communication" and Member of the scientific committee for the international conference ICTON 2019, held in Angers, France, July 2019 (https://qt.eu/events/special-session-on-quantum-communications-icton19/).
Spring 2019: Invited dissemination paper "Time-tagging single photons" for the Journal of the French Optical Society (Société Française d'Optique), "Photoniques", p. 54-60, March-April 2019.

Autumn 2018: Invited talk “DV and CV quantum optics for future quantum networks” to the workshop “Quantum Information, communication and computing: advances in theory and implementations” organized by the University of Cergy-Pontoise, FR.
Spring 2018: Invited dissemination paper “Comprendre le comptage de photons corrélés en temps” for the Journal of the French Optical Society (Société Française d'Optique), “Photoniques”, p. 38-42, May-June 2018.
Sept. 2017: Organizer of the course “Quantum optics with continuous variables” for master degree students in Physics, held by A. Zavatta (Univ. of Florence, IT) at the University Nice Sophia Antipolis, Nice, FR.
June 2017: Member of the organization board for the workshop “Quantum simulation, processing and communication” held in Nice, FR (http ://www.ucnlab.eu/qspc17). The event gathered scientists from quantum physics, photonics, computer science and telecommunications. About 40 people discussed the state of the art and perspectives for quantum technologies in the areas of computing, simulation and secured communications.
Feb. 2017: Member of the organization board for the winter school “Picque Scientific School” held in Nice (https ://picque-nice-17.sciencesconf.org/). The courses revised the fundamentals of quantum information and related them to specific implementations in photonics. It aimed at keeping the fellows on the state of the art of quantum photonics, with emphasis on the added value of reconfigurable devices.
Sept.2016: Organizer of the course “Quantum optics with continuous variables” for PhD students, held by A. Zavatta (Univ. of Florence, IT) at the University Nice Sophia Antipolis, Nice, FR.

Scientific dissemination to broad audience:
June 2020: Interview in French National Press (L’Express)
November 2019: Dissemination seminar organized by the association SciencePourTous06, Grasse, FR “What is quantum communication?”
July 2019: Invited dissemination seminar organized by the association SciencePourTous06, Grasse, FR “What is quantum communication?” (see: http://www.bmvr.nice.fr/EXPLOITATION/doc/AGENDA/2873/la-revolution-des-technologies-quantiques-de-l-information)
June 2019: Invited dissemination seminar organized by the association A.M.I.C. (Académie Méditerranéenne Interdisciplinaire des Connaissances), Nice, FR “The quantum information technology revolution”
Mai 2019: Radio interview at RadioNizza.fr, sponsored by “Nice Matin”, the most important local journal in the Alpes maritimes.
February 2019: Collaboration with the Youtube chain “ScienceEtonnante” for a video on quantum communication technologies (in French) (see: https://www.youtube.com/watch?v=kJFfleuDHrU)
Since Autumn 2018: Volunteer speaker and member of the association “Sciences pour tous” active in the dissemination of science in the villages of the department of the Maritimes Alps, FR.
Spring 2018: Dissemination of science to pre-primary and primary school pupils, Nice, FR “Experiment on waves and sounds” (see: http://univ-cotedazur.fr/contenus-riches/actualites/fr/les-eleves-de-lecole-von-derviews-experimentent-la-physique#.WyoH_akaTjB).
Spring 2017: Dissemination of science to pre-primary and primary school pupils, Nice, FR “Experiment on phase change in water”.
Since 2015: (Regular, 4 editions) Participation to the national event “Women in Engineering and Science”: round-table with high school female students on the role of women in science, Nice, FR.
Since 2015: (Regular, 4 editions) Participation to the national event “Girls’ days, boys’ day”, round-table with secondary school female students on the role of women in science, Nice, FR.
2015 to 2018: (Regular) Dissemination on the quantum optics and quantum information to high school students, Nice and Cannes, FR.

June 2016: Mentor at the round-table with young scientists “Climbing the Ladder: Insights from Leaders in Photonics” on the role of women in science organized at the conference CLEO2016, Saint José, CA, USA.
Sep. 2015: Invited dissemination seminar on Quantum Communication at the CNRS delegation 20, Valbonne, FR
Mar. 2015: Invited dissemination seminar on Quantum Communication at the pedagogical workshop “Nice Physics Camp” aiming at presenting to licence degree students the research activity in physics performed in the Nice region, FR
Jan. 2012: Organizer of the round-table on laser applications in medicine with S. Simuhin, responsible for the laser division of the company Bernas lasers, and the master degree students of the “Master Genie Bio Medical” of the University Nice Sophia Antipolis, Nice, FR

ULTERIORI INFORMAZIONI / ADDITIONAL INFORMATION

Foreign languages (written and spoken): Italian (mother tongue), Fluent English, Fluent French, Good level Spanish.

Pubblicazioni/ Books and Articles

List of publications:

1. François Mondain, F. Brunel, X. Hua, É. Gouzien, Tommaso Lunghi, Alessandro Zavatta, Florent Doutre, Marc De Micheli, Sébastien Tanzilli, Virginia D'Auria «Photorefractive effect in LiNbO3-based integrated-optical circuits for continuous variable experiments», Accepted in Optics Express.

2. Virginia D'Auria, Bruno Fedrici, Lutfi Arif Ngah, Florian Kaiser, Laurent Labonté, Olivier Alibart, Sébastien Tanzilli, «A universal, plug-and-play synchronisation scheme for practical quantum networks», npj Quantum Inf. 6, 21 (2020).

3. Élie Gouzien, Floriane Brunel, Sébastien Tanzilli, Virginia D'Auria, « A scheme for the generation of hybrid entanglement between time-bin and wave-like encodings», Phys. Rev. A 102, 012603 (2020).

4. François Mondain, Tommaso Lunghi, Alessandro Zavatta, Élie Gouzien, Florent Doutre, Marc De Micheli, Sébastien Tanzilli, Virginia D'Auria, «Chip-based squeezing at a telecom wavelength », Photon. Res., 7, A36-A39 (2019).

5. David Barral, Kamel Bencheikh, Virginia D'Auria, Sébastien Tanzilli, Nadia Belabas, and Juan Ariel Levenson, « Minimum resources for versatile continuous-variable entanglement in integrated nonlinear waveguides », Phys. Rev. A, 98, 023857 (2018).

6. Elie Gouzien, Bruno Fedrici, Alessandro Zavatta, Sébastien Tanzilli, Virginia D'Auria, « Quantum description of timing jitter for single-photon ON-OFF detectors », Phys. Rev. A, 98, 013833 (2018).

7. David Barral, Nadia Belabas, Lorenzo M. Procopio, Virginia D'Auria, Sébastien Tanzilli, Kamel Bencheikh, and Juan Ariel Levenson, « Continuous-variable entanglement of two bright coherent states that never interacted », Phys. Rev. A, Phys. Rev. A 96, 053822 (2017).

8. O. Alibart, V. D'Auria, M. De Micheli, F. Doutre, F. Kaiser, L. Labonté, T. Lunghi, E. Picholle and S. Tanzilli, « Quantum photonics at telecom wavelengths based on lithium niobate waveguides », Jour. Opt., 18, 104001 (2016) – invited review paper.

9. F. Kaiser, B. Fedrici, A. Zavatta, V. D'Auria, and S. Tanzilli, « A fully guided-wave squeezing experiment for fiber quantum networks », Optica, 3, 362-365 (2016).
   Selected for the magazine « Optics and Photonics News » of The Optical Society (OSA).

10. L. A. Ngah, O. Alibart, Laurent Labonté, V. D'Auria and S. Tanzilli, « Ultra-fast heralded single photon source based on telecom technology », Laser & Photon. Rev., 9, L1–L5 (2015).
    Selected for « actualité scientifique » of the Institut de Physique of the Centre National de la Recherche Scientifique (INP-CNRS)

11. F. Kaiser, L. A. Ngah, A. Issautier, T. Delord, D. Aktas, V. D'Auria, M. P. De Micheli, A. Kastberg, L. Labonté, O. Alibart, A. Martin, S. Tanzilli, « Polarization entangled photon-pair source based on quantum nonlinear photonics and interferometry », Opt. Comm., 327, pp.7-16 (2014).

12. Morin, J.-D. Bancal, M. Ho, P. Sekatski, V. D'Auria, N. Gisin, J. Laurat, N. Sangouard, « Witnessing trustworthy single-photon entanglement with local homodyne measurements », Phys. Rev. Lett., 110, 130401 (2013).

13. O. Morin, V. D'Auria, J. Laurat, C. Fabre, « Effect of the heralding detector properties on the conditional generation of single-photon states », EJPD, 66, p.249 (2012).
    European Journal of Physics Highlighted Paper

14. O. Morin, V. D'Auria, J. Laurat, C. Fabre, « A high-fidelity single-photon source based on a type-II optical parametric oscillator », Optics Letters, 37, pp. 3738-3740 (2012).

15. V. D'Auria, N. Lee, T. Amri, J. Laurat, C. Fabre, « Quantum Decoherence of Single-Photon Counters », Phys. Rev. Lett., 107, 050504 (2011).
    Editors' Suggestion
    Selected for the magazine « Physics » of the American Physical Society (APS) Journal Collection

16. D. Buono, G. Nocerino, V. D'Auria, A. Porzio, S. Solimeno, S. Olivares, M. G. A. Paris, « Quantum characterization of bipartite Gaussian states », J. Opt. Soc. Am. B, 27, A110 (2010)

17. V. D'Auria, S. Fornaro, A. Porzio, S. Solimeno, S. Olivares and M. G. A. Paris, « Characterization of bipartite Gaussian states from OPO », Phys. Scr. T, 140, 014018 (2010).

18. V. D'Auria, C. De Lisio, A. Porzio, S. Solimeno, J. Anwar, M. G. A. Paris, « Non-Gaussian states produced by close-to-threshold optical parametric oscillators: role of classical and quantum fluctuations », Phys. Rev. A, 81, 033846 (2010).

19. J. Rehacek, S. Olivares, D. Mogilevtsev, Z. Hradil, M. G. A. Paris, S. Fornaro, V. D'Auria, A. Porzio, S. Solimeno, « An effective method to estimate multidimensional Gaussian states » Phys Rev A, 79, 032111 (2009).

20. V. D'Auria, S. Fornaro, A. Porzio, S. Solimeno, S. Olivares, M. G. A. Paris, « Full characterization of Gaussian bipartite entangled states by a single homodyne detector » Phys. Rev. Lett., 102, 020502 (2009).

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Book chapters:
V. D'Auria, A. Porzio, S. Solimeno « Sensing by squeezed state of light », in « An introduction to Optoelectronic sensors », pp. 358-377, Ed. G. Righini, A. Tafani, A. Cutolo, Published by Fulsland Offset Printing (S), Pte Ltd, Singapore (2009)

Papers published in Proceedings and Broad Audience papers

1. Invited dissemination paper "Time-tagging single photons" for the Journal of the French Optical Society (Société Française d'Optique), "Photoniques", p. 54-60, March-April 2019.

2. Invited dissemination paper "Comprendre le comptage de photons corrélés en temps" for the Journal of the French Optical Society (Société Française d'Optique), "Photoniques", p. 38-42, May-June 2018.

ORAL presentations:
(The talk labelled as "invited" are those for which VDA was personally invited to give a talk. The speaker is underlined)

1. F. Mondain, T. Lunghi, A. Zavatta, E. Gouzien, F.e Brunel, Mohamed Melalkia, Jean Etesse, F. Doutre, M. de Micheli, S. Tanzilli, and V. D'Auria,"Guided-wave solutions for generating and manipulating squeezed light", congrès OPTIQUE de la Société Française d'Optique (SFO) (Dijon, France, 2020, invited talk)
2. V. D'Auria, "Discrete variable and continuous variable approaches to quantum technologies", Quantum and Neuromorphic meet workshop (Palaiseau, France, 2019, invited talk)
3. François Mondain, Tommaso Lunghi, Alessandro Zavatta, Élie Gouzien, Florent Doutre, Marc de Micheli, Sébastien Tanzilli, and Virginia D'Auria,"Chip-based compact squeezing experiment at a telecom wavelength", Transparent Optical Networks, ICTON, 21st International Conference on (Angers, France, 2019, invited talk)
4. François Mondain, Tommaso Lunghi, Alessandro Zavatta, Élie Gouzien, Florent Doutre, Marc de Micheli, Sébastien Tanzilli, and Virginia D'Auria, "Plug-and-Play generation and manipulation of squeezing on chip", Lasers and Electro-Optics Europe, CLEO EUROPE/IQEC, 2019 Conference on and International Quantum Electronics Conference (Munich, Germany, 2019).
5. Élie Gouzien, Floriane Brunel, Sébastien Tanzilli, and Virginia D'Auria "Hybrid entanglement with time-bin encoding", Quantum 2019: From Foundations of Quantum Mechanics to Quantum Information and Quantum Metrology & Sensing (Turin, Italy, 2019).

6. François Mondain, Tommaso Lunghi, Alessandro Zavatta, Elie Gouzien, Florent Doutre, Marc de Micheli, Sébastien Tanzilli, and Virginia D'Auria, "Plug-and-Play squeezing experiment on chip at telecom wavelength", Conference on Lasers and Electro-Optics, CLEO 2019 (San Jose, CA, US, May 2019)
7. Élie Gouzien, Bruno Fedrici, Alessandro Zavatta, Sébastien Tanzilli, and Virginia D'Auria "Single Photon Detectors's Timing-Jitter Quantum Description", Conference on Lasers and Electro-Optics, CLEO 2019 (San Jose, CA, US, May 2019)
8. François Mondain, Tommaso Lunghi, Alessandro Zavatta, Elie Gouzien, Florent Doutre, Marc de Micheli, Sébastien Tanzilli, and Virginia D'Auria, "Chip-based squeezing at a telecom wavelength", Quantum Information and Measurement 2019, QIM 2019 (Rome, Italy, 2019).
9. Virginia D'Auria, Bruno Fedrici, Florian Kaiser, Laurent Labonté, Olivier Alibart, and Sébastien Tanzilli, "Synchronizing remote quantum network stations using an all-optical method", Quantum Information and Measurement 2019, QIM 2019 (Rome, Italy, 2019).
10. B. Fedrici, L. A. Ngah, F. Kaiser, L. Labonté, O. Alibart, V. D'Auria, S. Tanzilli, "A plug-and-play synchronization scheme for practical quantum networks", Bristol Quantum Information Technologies Workshop, (Bristol, United Kingdom, 2019, Invited Talk)
11. F. Mondain, T. Lunghi, J. Aktas, A. Zavatta, F. Doutre, M. De Micheli, V. D'Auria, S. Tanzilli, « On chip squeezing generation and detection », International Conference on Integrated Quantum Photonics (Paris, France, 2018, invited talk)
12. O. Alibart, V. D'Auria, D. Aktas, M. De Micheli, F. Doutre, B. Fedrici, X. Hua, F. Kaiser, L. Labonté, T. Lunghi, F. Mazeas, F. Mondain, P. Vergyris, and Sébastien Tanzilli, "Quantum photonics on chip", Int. Symp. on Q Technologies, ECNU Shanghai (Shanghai, China, 2018, invited talk).
13. O. Alibart, V. D'Auria, L. Labonté, E. Kerstel, and Sébastien Tanzilli, "Protecting satellite constellation ground-stations by quantum cryptography links", Workshop on QKD for Space Systems, Thales Alenia Space (Rome, Italy, 2018)
14. D. Aktas, O. Alibart, V. D'Auria, M. De Micheli, F. Doutre, B. Fedrici, X. Hua, F. Kaiser, L. Labonté, T. Lunghi, F. Mazeas, F. Mondain, P. Vergyris, and Sébastien Tanzilli, "Q Photonics at telecom wavelength, from communication to optical material characterization", Int. Topical Meeting on Microwave Photonics, MWP'18 (Toulouse, France, 2018)
15. V. D'Auria, "DV and CV quantum optics for future quantum networks", Quantum Information, communication and computing: advances in theory and implementations, Quant2018 Workshop (Cergy-Pontoise, France, 2018, invited talk)
16. B. Fedrici, L. A. Ngah, F. Kaiser, L. Labonté, O. Alibart, V. D'Auria, S. Tanzilli, "A plug-and-play synchronisation scheme for quantum networks", Transparent Optical Networks, ICTON, 20th International Conference on (Bucharest, Romania, 2018, invited talk).
17. N. Belabas, D. Barral, K. Bencheikh, L. Procopio, J.-M. Moison, C. Minot, A. Levenson, V. D'Auria, T. Lunghi, S. Tanzilli, ≪Intrication dans des guides couplés: variations avec un coupleur directionnel non-linéaire", OPTIQUE-Journées Nationales d'Optique Guidée 2018, JNOG2018 (Toulouse, France, 2018)
18. D. Aktas, O. Alibart, V. D'Auria, M. De Micheli, F. Doutre, B. Fedrici, X. Hua, F. Kaiser, L. Labonté, T. Lunghi, F. Mazeas, F. Mondain, P. Vergyris, and Sébastien Tanzilli, "Q photonics at telecom wavelengths for sensing & communication applications – an overview", Photonic, Quantum & Nonlinear Optics Workshop (Nice, France, 2018).
19. D. Aktas, O. Alibart, V. D'Auria, M. De Micheli, F. Doutre, B. Fedrici, X. Hua, F. Kaiser, L. Labonté, T. Lunghi, F. Mazeas, F. Mondain, P. Vergyris, and Sébastien Tanzilli, "Photonics Q technologies, from communication to optical material characterization", 16emes Journées Nano, Micro & Optoélectronique, JNMO (Agay, France, 2018).

20. B. Fedrici, L. A. Ngah, F. Kaiser, L. Labonté, O. Alibart, V. D'Auria, S. Tanzilli, "All-optical synchronization for quantum networks", SPIE Photonics Europe (Strasbourg, France, 2018)
21. B. Fedrici, L. A. Ngah, F. Kaiser, L. Labonté, O. Alibart, V. D'Auria, S. Tanzilli, "All-optical synchronization for quantum networks", Colloque du GDR Ingénierie Quantique, des Aspects Fondamentaux aux Applications (Nice, France, 2017).
22. B. Fedrici, L. A. Ngah, F. Kaiser, O. Alibart, L. Labonté, V. D'Auria, and Sébastien Tanzilli, "All-optical synchronization for quantum networks based on photonic entanglement", DIADEMS & SIRTEQ Quantum Technologies Workshop (Palaiseau, France, 2017).
23. B. Fedrici, L.A. Ngah, O. Alibart, F. Kaiser, L. Labonté, V. D'Auria, and S. Tanzilli, "All-optical synchronization for quantum networks", Transparent Optical Networks, ICTON, 19th International Conference on (Girona, Spain, 2017)
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27. B. Fedrici, F. Kaiser, A. Zavatta, V. D'Auria, S Tanzilli, "Une approche entièrement guidée pour l'optique quantique en régime de variables continues", 36ème édition des Journées Nationales d'Optique Guidée, JNOG'36 (Bordeaux, France, 2016).
28. F. Kaiser, B. Fedrici, A. Zavatta, V. D'Auria, S. Tanzilli, "A fully guided-wave approach to the generation and detection of squeezing at a telecom wavelength", Conference on Lasers and Electro-Optics, CLEO 2016 (San Jose, CA, US, 2016).
29. B. Fedrici, L. A. Ngah, O. Alibart, L. Labonté, V. D'Auria, S. Tanzilli, "An ultra-fast heralded single photon source for quantum relay operation", International Conference for Young Quantum Information Scientists, YQIS (Palaiseau, France, 2015).
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36. L. A. Ngah, O. Alibart, L. Labonté, V. D'Auria, S. Tanzilli, "Ultrafast quantum optics based on telecommunication technologies", 7th Italian Quantum Information Science Conference 2014, IQIS2014 (Salerno, Italy, 2014 - invited talk).

37. L. A. Ngah, O. Alibart, L. Labonté, V. D'Auria, S. Tanzilli, "Ultrafast quantum optics based on telecommunication technologies", conférence de la division de Physique Atomique et Moléculaire et Optique de la Société Française de Physique, PAMO-JSM2014, (Reims, France, 2014 – plenary invited talk).
38. L. A. Ngah, O. Alibart, L. Labonté, V. D'Auria, S. Tanzilli, "Ultrafast heralded single photon source based on telecommunication technologies", 6th Italian Quantum Information Science Conference 2013, IQIS2013 (Como, Italy, 2013 - invited talk).
39. O. Morin, V. D'Auria, C. Fabre, J. Laurat, J.-D. Bancal, M. Ho, P. Sekatski, N. Gisin, N. Sangouard, "Optical hybrid quantum information: Example of a continuous-variable trustworthy witness for single-photon entanglement", Lasers and Electro-Optics, CLEO, 2013 Conference on (San Jose, California, US, 2013).
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42. O. Morin, V. D'Auria, J. Liu, K. Huang, C. Fabre and J. Laurat, "A source of High fidelity heralded single-photons and a novel hybrid witness for single-photon entanglement", 3ème Colloque du GDR Quantum Information, Fondations, Applications (Grenoble, France, 2012).
43. O. Alibart, V. D'Auria, L. Labonté, F. Doutre, M. De Micheli, A. Martin, F. Kaiser, L. A. Ngah, A. Issautier, A. Kastberg, D. B. Ostrowsky, S. Tanzilli, "L'information quantique photonique: le point de vue de l'expérimentateur", Nice Physics Days (Valbonne Sophia-Antipolis, France, 2012).
44. V. D'Auria, F. Kaiser, A. Martin, L. Labonté, M. P. De Micheli, D. B. Ostrowsky, O. Alibart, S. Tanzilli, "Quantum communication based on integrated nonlinear optics", International Workshop on Quantum Manipulation of Atoms and Photons, QMAP2011 (Shanghai, China, 2011 - invited talk).
45. V. D'Auria, F. Kaiser, A. Martin, L. Labonté, M. P. De Micheli, D. B. Ostrowsky, O. Alibart, S. Tanzilli, "Enabling quantum communication using integrated nonlinear optics", SPIE conference on Optical Complex Systems, OCS'2011 (Marseille, France, 2011 - invited talk).
46. F. Kaiser, A. Martin, A. Issautier, L. Labonté, V. D'Auria, O. Alibart, S. Tanzilli, "Narrowband polar. entanglement sources based on IO for quantum appl. at telecom wavelength", IEEE Photonics Society, Summer Topicals on Entanglement Distribution in Quantum Communication and Beyond, SUM'2011 (Montreal, Canada, 2011).
47. A. Martin, J.-L. Smirr, F. Kaiser, V. D'Auria, R. Frey, O. Alibart, I. Zaquine, S. Tanzilli, "Analysis of elliptically polarized, maximally entangled states", 20th International Laser Physics Workshop, LPHYS'11 (Sarajevo, Bosnia Herzegovina, 2011).
48. F. Kaiser, A. Martin, L. Labonté, V. D'Auria, M. P. De Micheli, O. Alibart, S. Tanzilli, "Source de paires de photons intriqués en polar. émis en bande étroite aux longueurs d'ondes des télécoms", 12ème Colloque sur les Lasers et l'Optique Quantique, COLOQ'12, (Marseille, France, 2011).
49. F. Kaiser, A. Martin, V. D'Auria, M.P. De Micheli, O. Alibart, S. Tanzilli, "Fully fibred polar. entangled photon pair source at a telecom wavelength for quantum networking", Transparent Optical Networks, ICTON, 13rd International Conference on (Stockholm, Sweden, 2011).
50. V. D'Auria, N. Lee, T. Amri, J. Laurat, C. Fabre, "Experimental characterization of optical detectors for single photon subtraction", Lasers and Electro-Optics, CLEO, Quantum Electronics and Laser Science Conference, QELS (San Jose, California, US, 2010).

51. V. D'Auria, S. Fornaro, A. Porzio, S. Solimeno, S. Olivares, "Full characterization of bipartite entangled states by means of a single homodyne detector", European Quantum Electronics Conference, CLEO/Europe (Munich, Germany, 2009).
52. V. D'Auria, S. Fornaro, A. Porzio, S. Solimeno, S. Olivares, M. G. A. Paris "Characterization of bipartite states: from theory to experiment", 11th International Conference on Squeezed States and Uncertainty Relations and 4th Feynman Festival, ICSSUR11 (Olomouch, Czech Republic, 2009).
53. A. Porzio, V. D'Auria, S. Fornaro, S. Solimeno, "Complete bi-partite CV entanglement characterization via covariance matrix measurement", SPIE meeting on Photon Counting Applications, Quantum Optics, Quantum Information Transfer and Processing II (Prague, Czech Republic, 2009).
54. V. D'Auria, G. Keller, J. Laurat, N. Treps, T. Amri, T. Coudreau, C. Fabre, "Levels of Quantum Correlations in the Continuous Variable Regime: Review and Experimental Illustrations with OPOs", Quantum Communication, Measurement and Computing, QCMC (Calgary, Canada, 2008).
55. G. Keller, V. D'Auria, N. Treps, T. Coudreau, J. Laurat, C. Fabre, "Experimental generation of frequency degenerate bright EPR beams with a self-locked optical parametric oscillator", International Conference on Quantum Information (ICQI) (Boston, Massachusetts, US, 2008).
56. A. Porzio, V. D'Auria, S Fornaro, S. Solimeno, S Olivares, M. G. A. Paris, "Efficient generation of CV entanglement by triply resonant non-degenerate OPA", SPIE Meeting on Photon Counting Applications, Quantum Optics, Quantum Cryptography (Prague, Czech Republic, 2007).
57. A. Porzio, V. D'Auria, S. Solimeno, M. G. Paris, "Pattern-function quantum tomography: a tool for experimentally investigating the real state of radiation fields", SPIE Meeting on Quantum Communications and Quantum Imaging III (San Diego, California, US, 2005).
58. V. D'Auria, A. Porzio, S. Solimeno, S. Olivares, M. G. A. Paris, "Deviations from a Gaussian state for the output of a degenerate below threshold OPO", International Conference in Squeezed States and Uncertainty Relations, ICSSUR05 (Besançon, France, 2005).
59. A. Porzio, A. Chiummo, V. D'Auria, S. Solimeno, M. G. A. Paris, "Deviations from a Gaussian state for the output of a degenerate below threshold OPO", 1st Meeting of the Coherentia Young Researchers, (Naples, Italy, 2005).
60. A. Porzio, A. Chiummo, V. D'Auria, S. Solimeno, M. G. A. Paris, "Quantum Tomography of squeezed vacuum for measuring the transmittivity of materials in the dark", SPIE Annual Meeting 2004: Quantum Communication and Quantum Imaging II (Denver, Colorado, US, 2004).
61. A. Porzio, P. Aniello, A. Chiummo, V. D'Auria, M. de Laurentis, S. Solimeno, M. G. A. Paris, "A novel quantum cryptographic scheme based on bright twin—beam", 8th International Conference on Squeezed States and Uncertainty Relations, ICSSUR8 (Puebla, Mexico, 2003).

List of peer-reviewed conference papers

1. F.Mondain, T. Lunghi, A. Zavatta, É. Gouzien, F. Doutre, M. de Micheli, S. Tanzilli, and V. D'Auria, « Chip-Based Compact Squeezing Experiment at a Telecom Wavelength » in 2019 21st International Conference on Transparent Optical Networks (ICTON), IEEE Conference Publications, pp. 1-3.

2. F.Mondain, T. Lunghi, A. Zavatta, É. Gouzien, F. Doutre, M. de Micheli, S. Tanzilli, V. D'Auria, «Plug-and-Play generation and manipulation of squeezing on chip », European Quantum Electronics Conference, (Optical Society of America, 2019), eb53

3. É Gouzien, B Fedrici, F Mondain, A Zavatta, S Tanzilli, V D'Auria, «Operational Description of Single-Photon Detectors Including Timing-Jitter Effects », European Quantum Electronics Conference, (Optical Society of America), ebp8

4. François Mondain, Tommaso Lunghi, Alessandro Zavatta, Élie Gouzien, Florent Doutre, Marc de Micheli, Sébastien Tanzilli, and Virginia D'Auria, "Plug-and-Play generation and manipulation of squeezing on chip", Lasers and Electro-Optics Europe, CLEO EUROPE/IQEC, 2019 Conference on and International Quantum Electronics Conference (Munich, Germany, 2019).

5. F. Mondain, T. Lunghi, A. Zavatta, E. Gouzien, F. Doutre, M. de Micheli, S. Tanzilli, and V. D'Auria, "Plug-and-Play squeezing experiment on chip at telecom wavelength," in Conference on Lasers and Electro-Optics, OSA Technical Digest (Optical Society of America, 2019), paper FTh4D.2. Confernece: Conference on Lasers and Electro-Optics, CLEO 2019 (San Jose, CA, US, May 2019)

6. É. Gouzien, B. Fedrici, A. Zavatta, S. Tanzilli, and V. D'Auria, "Quantum Description of Single Photon Detectors Including Timing-Jitter Effects," in Quantum Information and Measurement (QIM) V: Quantum Technologies, OSA Technical Digest (Optical Society of America, 2019), paper T5A.38. Conference: Conference on Lasers and Electro-Optics, CLEO 2019 (San Jose, CA, US, May 2019)

7. F. Mondain, T. Lunghi, A. Zavatta, E. Gouzien, F. Doutre, M. de Micheli, S. Tanzilli, and V. D'Auria, "Chip-based squeezing at a telecom wavelength," in Quantum Information and Measurement (QIM) V: Quantum Technologies, OSA Technical Digest (Optical Society of America, 2019), paper F4A.4. Conference: Quantum Information and Measurement 2019, QIM 2019, Rome, Italy, 2019.

8. É. Gouzien, B. Fedrici, A. Zavatta, S. Tanzilli, and V. D'Auria, "Quantum Description of Single Photon Detectors Including Timing-Jitter Effects," in Quantum Information and Measurement (QIM) V: Quantum Technologies, OSA Technical Digest (Optical Society of America, 2019), paper T5A.38. Conference: Quantum Information and Measurement 2019, QIM 2019, Rome, Italy, 2019.

9. V. D'Auria, B. Fedrici, F. Kaiser, L. Labonté, O. Alibart, and S. Tanzilli, "Synchronizing remote quantum network stations using an all-optical method," in Quantum Information and Measurement (QIM) V: Quantum Technologies, OSA Technical Digest (Optical Society of America, 2019), paper F4A.1. Conference: Quantum Information and Measurement 2019, QIM 2019, Rome, Italy, 2019.

10. B. Fedrici, L. A. Ngah, O. Alibart, F. Kaiser, L. Labonté, V. D'Auria, S. Tanzilli, « All-optical synchronization for quantum networking », Proc. SPIE 10674, Quantum Technologies 2018, 1067412 (21 May 2018);
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11. B Fedrici, LA Ngah, O Alibart, F Kaiser, L Labonté, V D'Auria, S Tanzilli, « All-optical synchronization for quantum communication networks » in 2017 17th International Conference on Transparent Optical Networks (ICTON), IEEE Conference Publications, pp. 1-3 (2017) ISSN: 2161-2064.
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12. B. Fedrici, L. A. Ngah, O. Alibart, F. Kaiser, L. Labonté, V. D'Auria, and S. Tanzilli, "All-optical synchronization for quantum communication networks," in 2017 European Conference on Lasers and Electro-Optics and European Quantum Electronics Conference, (Optical Society of America, 2017), paper EB_1_2.
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14. B. Fedrici, L. Arif Ngah, O. Alibart, F. Kaiser, L. Labonté, V. D'Auria, S. Tanzilli, « All-optical synchronization for quantum networking » in Frontiers in Optics, OSA Technical Digest (online) (Optical Society of America, 2017), paper FW3B. 3
    Conférence: Frontiers in Optics 2016, Rochester, New York, United States, 2016

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    Conference: Quantum Information and Measurement 2014, Messe Berlin, Berlin, Allemagne, 2014.

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In fede, Virginia D'Auria