

Personal information

Name Nicola Vianello

Date and Place of 14 August 1975, Venice, Italy

birth

Citizenship Italian

Address Via dei Giacinti 28, 35126 Padova, Italy

Work Address ISTP-CNR and Consorzio RFX C.so Stati Uniti 4, 35127 Padova, Italy

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Number ORCID ID

ID 0000-003-4401-5346

ResearcherID B-6323-2008
Google Scholar
Plubons Plubons profile

Employment

1999	Consorzio RFX, Padova, Italy, Research Fellow
2002-2003	Consorzio RFX, Padova, Italy, Research Fellow
2003-2009	Consorzio RFX, Padova, Italy, Research Scientist
2009-2015	Institute of Ionized Gas, National Research Council (CNR), Research permanent staff (Ricercatore III Livello)
2015-2016	Swiss Plasma Center, Ecole Polytechnique Federale de Lausanne, Collaborator Scientifique, (unpaid leave from the National Research Council)
2016-2022	Institute of Plasma Science and Technology, National Research Council (CNR) and Consorzio RFX, Research permanent staff (Ricercatore III Livello)
2023-date	Institute of Plasma Science and Technology, National Research Council (CNR) and Consorzio RFX, Senior Researcher (Ricercatore I Livello)

Education

1993 **High School Leaving Certificate**, Liceo Scentifico Statale *U.Morin*, Venice Italy.

Grade: **56/60**

1999 **M. Sci. Physics**, *Universitá degli Studi di Padova*. Grade: **110/110 cum Laude**

Thesis Title Trasporto di particelle ed energia per effetto di turbolenza elettrostatica in plasmi confinati in configurazione Reversed Field Pinch (Particle and energy transport induced by electrostatic

turbulence in Reversed Field Pinch plasmas)

advisor Prof. S. Lo Russo, Dr. V. Antoni

2002 **PhD in Energetics**, Universitá degli Studi di Padova

Thesis Title Self-organization phenomena and coherent structure generation

advisor Prof. A.Buffa, Dr. V. Antoni

Duties and Responsibilities



- 2007-2015 Responsible Scientist for edge manipulators in RFX-mod device. Responsibilities implies the maintenance and improvement of the two manipulators used in RFX-mod for the insertion of edge probes and the development of new probe heads with the coordination between design, mechanical and diagnostic technicians.
 - Task force leader in RFX-mod experiment for task force *Particle, Momentum and energy transport*. The task force was in charge to implement experimental proposals aimed to the comprehension of physical mechanisms which regulate particle momentum and energy transport in RFX-mod. The task force leaders together with the Scientific Coordinators take part to the decision processes concerning the experimental program of the machine, deciding priorities and objectives
 - Task force leader in RFX-mod experiment for task force *Physics integration for high performance RFP*. The task force aimed to coordinate all the efforts devoted to the comprehension of the physical mechanism behind the appearance of improved confinement regimes in RFX-mod, to establish the physical requirement for a controlled achievement of h-mode confinement regime and to explore all the still open basic physics issues whose knowledge could help to improve plasma performances. As in the previous year the task force leaders take part to the scientific program schedule, coordinating in particular the activities for the high current performance operations.
 - 2011 Coordinator of the EFDA working group 3D field effects in edge and SOL and diagnostic development under EFDA Transport Topical Group. This working group has been established to coordinate the effort promoted by different EFDA associations on the following subject:
 - 1. Investigation on the effect of non-axisymmetric fields on the filamentary structures (L and H-mode regimes)
 - 2. Investigation into changes in edge transport due to the application of 3D fields
 - 3. Characterization of the edge turbulence in these 3D situations (including effect of ion temperature and 3D fast particle losses)
 - 4. Edge turbulence and transport modelling by incorporating 3D field effects into the codes.
 - 5. Comparison studies between tokamaks, stellarators and RFPs on the above topics.

The coordinators promote exchange of results between different association and the definition of common objectives which facilitate the comparison between different devices.

- 2012 Member of the Program committee of the 17th Joint EU-US Transport Task Force Meeting in combination with the 4th EFDA Transport Topical Group meeting, 3-6 September 2012, Padova, Italy
- Scientific Coordinator of experiment *B13-19 Investigation of M-Mode* on JET Tokamak campaigns C31-C34. Coordination implies assigning activities to the experimental team, plan the possible experimental campaign to be designed in collaboration with Session leaders, establish scientific objectives and monitoring scientific activities. The scientific results have been published in [A52, A29]
- Scientific Coordinator of experiment *AUG14-2.2-3*, *SOL filamentary transport at high density*, under the MST1 Eurofusion Work-Packages. Coordination implied the development of the experimental strategy, the assignment and monitoring of the activities of the international experimental team, the design of execution of the detailed experimental plan in collaboration with Session leaders and diagnosticians, the establishment of the scientific objectives and their proper dissemination in appropriate publications in scientific journals and conferences. A gross estimate of 220 k€, including machine time and human resources can be estimated. The scientific results contributed to the following publications [A43, A62, A44]
- 2015-2016 Responsible Scientist Soft X ray diagnostic in the TCV tokamak. Deputy Responsible Scientist for the Neutral Beam Heating system in the TCV tokamak.

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Scientific Coordinator of experiment *TCV15-2.2-3: Filamentary Transport in the SOL* under MST1 Eurofusion Work-Package. Coordination implied the development of the experimental strategy, the assignment and monitoring of the activities of the international experimental team, the design of execution of the detailed experimental plan in collaboration with Session leaders and diagnosticians, the establishment of the scientific objectives and their proper dissemination in appropriate publications in scientific journals and conferences. A gross estimate of 135 k€, including machine time and human resources can be estimated. The scientific results contributed to the following publications [A58]

Scientific Coordinator of experiment *TCV15-1.5-1*, *Mitigation of high Z impurity accumulation through combined central ECRH and tailoring of MHD activity in high performance H-modes* under MST1 Eurofusion Work-Package. Coordination implied the development of the experimental strategy, the assignment and monitoring of the activities of the international experimental team, the design of execution of the detailed experimental plan in collaboration with Session leaders and diagnosticians, the establishment of the scientific objectives and their proper dissemination in appropriate publications in scientific journals and conferences. A gross estimate of 93 k€, including machine time and human resources can be estimated.

Scientific Coordinator of Topic 21 Filamentary transport in high-power H-mode conditions and in no/small-ELM regimes to predict heat and particle loads on PFCs for future devices under MST1 Eurofusion Work-Package. Coordination implied the development of the experimental strategy across three European Tokamak Devices (Asdex-Upgrade (Germany), TCV (Switzerland), MAST-U (UK)), the assignment and monitoring of the activities of the international experimental team, the design of execution of the detailed experimental plan in collaboration with Session leaders and diagnosticians, the establishment of the scientific objectives and their proper dissemination in appropriate publications in scientific journals and conferences. A gross estimate of 840 k€, including machine time and human resources can be estimated. The scientific results contributed to the following publications [A31, A30]

Scientific Coordinator of JET Task T18-02 Scrape-off layer and SOL- pedestal interaction under JET1 Eurofusion Work-Package. Coordination implies assigning activities to the international experimental team, plan data analysis campaign and interface with Scientific Coordinators of different experiments. The overall human resources coordinate can be estimated in 374 ppds (person per day) in 2018 and 503 ppds in 2019. The scientific results contributed among the others to the following publications [A26, A22]

Scientific Coordinator of JET Experiment M18-41 *Divertor geometry effect on detachment and SOL* under JET1 Eurofusion Work-Package. Coordination implied the development of the experimental strategy, the assignment and monitoring of the activities of the international experimental team, the design of execution of the detailed experimental plan in collaboration with Session leaders and diagnosticians, the establishment of the scientific objectives and their proper dissemination in appropriate publications in scientific journals and conferences. A gross estimate of 600 ppds (person per day) have been coordinated for a total of 8 experimental sessions on JET including exploitation during the Tritium campaign. The scientific results contributed to the following publications [A11, A18]

Scientific Coordinator of Topic 16 Effect of filamentary transport on heat and particle loads under MST1 Eurofusion Work-Package. experimental strategy across different European Tokamak Devices (Asdex-Upgrade (Germany), TCV (Switzerland)), the assignment and monitoring of the activities of the international experimental team, the design of execution of the detailed experimental plan in collaboration with Session leaders and diagnosticians, the establishment of the scientific objectives and their proper dissemination in appropriate publications in scientific journals and conferences. A gross estimate of 800 k€, including machine time and human resources can be estimated. The scientific results contributed to the following publications [A19, A20]

2020-Date Elected European Member of the ITPA Pedestal & Edge Physics Topical Group

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2020-Date Responsible of ITPA Div-SOL task D34 to coordinate activity on Far Scrape Off

Layer transport in a world-wide coordinated effort

2020-Date Member of the EUROfusion HPC (High Performance Computing) Allocation Com-

milee.

2020-July 2024

Deputy Task Force Leader of Work Package *Tokamak Exploitation (WPTE)* of the EUROfusion Consortium. The work package WPTE, is the larger Work Package within the Fusion Science Department of the EUROfusion Consortium, and has been established to coordinate the European experimental fusion program in support of the ITER project and the design activity of the DEMO program. The activity of the Work Package is distributed across 5 different european tokamak devices, ASDEX-Upgrade (Germany), TCV (Switzerland), MAST-U (UK), WEST (France) and JET (UK). Among the duties of the Task Force Leaders are the definition of the high-level scientific deliverables, the implementation of the program subdivided into different Research Topics, the attribution of appropriate experimental time as well as human resources for the achievement of scientific results by proper managing the available budget the monitoring of the achievements and dissemination of the scientific results.

July 2024-Date Task Force Leader of the Work Package Tokamak Exploitation (WPTE) of the EU-

ROfusion Consortium. Following an EUROfusion call and subsequent evaluation by an external panel I've been nominated Task Force Leader of the TE Work-Package, continuing my duties in shaping and coordinating the scientific exploitation of the

European tokamaks

2022-Date Member of the Expert Group on SOL and Divertor Physics for the definition of the

DTT Experiment Research Plan

Competition and Habilitation

May 2009 Publich selection (Ref.364/12) held by Consiglio Nazionale delle Ricerche, for re-

search position

Evaluation panel Prof. A. Fasoli, Ecole Polytechnique Federale de Lausanne, Switzerland

Dr. V. Antoni, Consiglio Nazionale delle Ricerche, Istituto Gas Ionizzati, Padova Dr. D. Farina, Consiglio Nazionale delle Ricerche, Istituto di Fisica del Plasma,

Result The competition included written exams and oral colloquium. The candidate resulted the winner of the competition with a final mark of 104.5/120

sulted the winner of the competition with a final mark of 104.5/120

2012 Abilitazione Scientifica Nazionale, Bando D.D. 222/2012, (ASN National Scientific

Habilitation). Public evaluation of the competences and scientific achievements to obtain the qualification of *Professore Associato* (Associate Professor) in Experimental Physics and Material Science

Evaluation Panel Prof. Mattera Lorenzo, Universitá degli Studi di Genova, Italy

Prof. Rinaldo Cubeddu, Politecnico di Milano, Italy

Prof. Stefano Nannarone, Universitá degli Studi di Modena e Reggio Emilia, Italy

Prof. Mobilio Settimio, Universitá degli Studi di Roma Tre, Italy

Prof. Andrea Cavalleri, Max Planck Institute for the Structure and Dynamics of Matter. Hamburg

Grade Excellent

Valid from 11/12/2013 to 11/12/2019

Abilitazione Scientifica Nazionale, Bando D.D. 1532/2016, (ASN National Scientific Habilitation). Public evaluation of the competences and scientific achievements

to obtain the qualification of *Professore Ordinario* (Full Professor) in Experimental Physics and Material Science

Evaluation Panel Prof. Federico Boscherini, Universitá degli Studi di Bologna

Prof. Giulio Nicola Cerullo, Politecnico di Milano

Prof.ssa Pasqualino Maria Maddalena, Universitá degli Studi di Napoli Prof. Francesco Saverio Pavone, Universitá degli Studi di Firenze

Prof. Sandro Santucci, Universitá degli Studi dell'Aquila

Valid from 26/07/2018 to 26/07/2029

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Abilitazione Scientifica Nazionale, Bando D.D. 1532/2016, (ASN National Scientific Habilitation). Public evaluation of the competences and scientific achievements to obtain the qualification of *Professore Associato* (Associate Professor) in Experimental Physics and Material Science

Evalaution Panel Prof. Federico Boscherini, Universitá degli Studi di Bologna

Prof. Giulio Nicola Cerullo, Politecnico di Milano

Prof. Pasqualino Maria Maddalena, Universitá degli Studi di Napoli Prof. Francesco Saverio Pavone, Universitá degli Studi di Firenze

Prof. Sandro Santucci, Universitá degli Studi dell'Aquila

Valid from 26/07/2018 to 26/07/2029

Abilitazione Scientifica Nazionale, Bando D.D. 1532/2016 (ASN National Scientific Habilitation). Public evaluation of the competences and scientific achievements to obtain the qualification of *Professore Associato* (Associate Professor) in Theoretical

Physics of Matter

Evaluation Panel Prof. Federico Boscherini, Universitá degli Studi di Bologna

Prof. ssa Vincenza Cupri, Universitá degli Studi di Messina Prof. Amos Maritan, Universitá degli Studi di Padova Prof. Alessandro Tredicucci, Universitá degli Studi di Pisa

Prof. Pierluigi Veltri, Universitá della Calabria Abilitazione valida dal 08/08/2018 al 08/08/2029

2020 Consiglio Nazionale delle Ricerche (National Research Council) Procedure N. 315.15 PR for the promotion to the level of *Senior Researcher* (Ricercatore I Livello)

Evaluation Panel Prof. Stefano Zapperi, Universitá degli Studi di Milano

Dott. Michael Pusch, Istituto di biofisica (IBF)-CNR, Genova

Dott.ssa Paola Mantica, Istituto per la scienza e tecnologia dei plasmi (ISTP)-CNR, Milano

The candidate has been evaluated as eligible and promoted to the level of Senior Researcher from 01/01/2023

International Experience

March – June 2001	Visiting scientist at Royal Institute of Technology, Stockholm, Sweden
May – June 2002	Visiting scientist, under EURATOM-Mobility Staff Movement, at Royal Institute of Technology, Stockholm, Sweden
March – April 2003	Visiting scientist, under EURATOM-Mobility Staff Movement, at Royal Institute of Technology, Stockholm, Sweden
April – June 2004	Visiting scientist, under EURATOM-Mobility Staff Movement, at Royal Institute of Technology, Stockholm, Sweden
October 2005	Visiting scientist, under EURATOM-Mobility Staff Movement, at Risö National Laboratory, Denmark
February 2008	Visiting Scientist, under EURATOM-Mobility Staff Movement, at Max-Planck Institut für Plasmaphysik, Garching, Germany
May 2009	Visiting Scientist, under EURATOM-Mobility Staff Movement, at Max-Planck Institut für Plasmaphysik, Garching, Germany
November 2009	Visiting Scientist, under EURATOM-Mobility Staff Movement, at Centre der Recherches en Physique des Plasmas, EPFL, Lausanne
March 2011	Visiting scientist, under EURATOM-Mobility Staff Movement, at Royal Institute of Technology, Stockholm, Sweden
April 2011	Visiting scientist, under EURATOM-Mobility Staff Movement, at the National Fusion Laboratory, CIEMAT, Madrid
May 2011	Visiting Scientist, under EURATOM-Mobility Staff Movement, at Max-Planck Institut für Plasmaphysik, Garching, Germany

Visiting Scientist, under EURATOM-Mobility Staff Movement, at Culham Centre for

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February-March

2012

Fusion Energy, Oxford, JET

July-September 2013	Visiting Scientist, under EURATOM-Mobility Staff Movement, at Culham Centre for Fusion Energy, Oxford, JET
May 2014	Visiting Scientist at Max-Planck Institut für Plasmaphysik, Garching, Germany
July 2014	Visiting Scientist at Culham Centre for Fusion Energy, Oxford, JET
July 2015	Visiting Scientist at Max-Planck Institut für Plasmaphysik, Garching, Germany
July 2015	Visiting Scientist at Max-Planck Institut für Plasmaphysik, Garching, Germany
October 2015	Visiting Scientist at Max-Planck Institut für Plasmaphysik, Garching, Germany
February 2016	Visiting Scientist at Max-Planck Institut für Plasmaphysik, Garching, Germany
May 2016	Visiting Scientist at Swiss Plasma Centre, EPFL, Lausanne
July 2016	Visiting Scientist at Swiss Plasma Centre, EPFL, Lausanne
April 2017	Visiting scientist (fellowship), within EUROfusion framework, at Max-Planck Institut für Plasmaphysik, Garching, Germanoa
May 2017	Visiting scientist (fellowship), within EUROfusion framework, at Max-Planck Institut für Plasmaphysik, Garching, Germanoa
June 2017	Visiting scientist (fellowship), within EUROfusion framework, at Swiss Plasma Centre, EPFL, Lausanne
September 2017	Visiting scientist (fellowship), within EUROfusion framework, at the Swiss Plasma Centre, EPFL, Lausanne
November 2017	Visiting scientist (fellowship), within EUROfusion framework, at the Swiss Plasma Centre, EPFL, Lausanne
July 2018	Visiting scientist (fellowship), within EUROfusion framework, at Culham Centre for Fusion Energy, Oxford, UK
2019-date	Several visits to different European Laboratories, mainly Swiss Plasma Center at EPFL, Culham Centre for Fusion Energy at Culham, UK and Max-Planck Institut für Plasmaphysik, Garching all within EUROfusion framework scheme

Invited Lectures

July 2012 Title	Invited lecture at the Workshop on Electric Field, Turbulence Self Organization in Magnetized Plasmas, Stockholm, Sweden The role of 3D fields on edge and SOL turbulence
July 2014 Title	Invited lecture at the 41^{st} EPS Conference in Plasma Physics, Berlin, Germany Magnetic perturbation as a viable tool for edge turbulence modification
December 2014 Title	Invited lecture at the 1st International and Interdisciplinary Workshop on Fusion and Technological Plasmas (FUSTECH), Collaborative Research Center SFB-TR87, Ruhr-University Bochum Fluctuations in tokamaks and RFPs: Relation with topology
March 2024 Title	Invited lecture at the 2024 US-EU Transport Task Force Workshop The EUROfusion Tokamak Exploitation program in support of ITER and DEMO

March 2024 Title	Invited lecture at the 2024 US-EU Transport Task Force Workshop The EUROfusion Tokamak Exploitation program in support of ITER and DEMO
Teaching	
2008–2009	Assistant for the course Fluid and Plasma Physics, M.Sci degree in Physics, Department of Physics, University of Padova
2010	Assistant for the course Fluid and Plasma Physics, M.Sci degree in Physics, Department of Physics, University of Padova
2011–2012	Assistant to the course Fundamental of Plasma Physics, Bachelor degree in Physics, Department of Physics, University of Padova
ate: September 9, 2024	Micola Januar

2012-2013	Assistant to the course Fundamental of Plasma Physics, Bachelor degree in Physics, Department of Physics, University of Padova
2013-2014	Assistant to the course Fundamental of Plasma Physics, Bachelor degree in Physics, Department of Physics, University of Padova
2013-2014	Lecturer for basic Physics course of the Joint Research Doctorate and European Interuniversity Doctoral Network on Fusion Science and Engineering
2014-2015	Assistant to the course Fundamental of Plasma Physics, Department of Physics, University of Padova
2021	Lecturer for basic <i>Advanced Course on Plasma Physics and Diagnostic</i> per il PhD Programme in Fusion Science and Engineering, Università degli Studi di Padova ed Università degli studi di Napoli Federico II
2023	Lecturer for basic <i>Advanced Course on Plasma Physics and Diagnostic</i> per il PhD Programme in Fusion Science and Engineering, Università degli Studi di Padova ed Università degli studi di Napoli Federico II

Supervising

2007	Supervisor for Bachelor Thesis, Department of Physics, University of Padova, candidate: A. Scaggion
2009	Supervisor for M.Sci. Thesis, Department of Physics, University of Padova, candidate: A. Scaggion
2011	Supervisor for Bachelor Thesis, Department of Physics, University of Padova, candidate: A. Mazzi
2013	Supervisor for M.Sci. Thesis, Department of Physics, University of Padova, candidate: A. Mazzi
2015	Supervisor for PhD. Thesis, Department of Physics, University of Padova, candidate: C. Rea
2015	Supervisor for M.Sci. Thesis, Ecole Polytechnique Federale de Lausanne, candidate: M. Pedro
2020	Supervisor for M.Sci. Thesis, Department of Physics, University of Padova, candidate: S. Bresciani
2019-2022	Supervisor for PhD. Thesis in Engineering for Energy and Environment, Dipartimento di Ingegneria, Università della Tuscia, candidate: D. Mancini
2020-2023	Supervisor for PhD. Thesis in Engineering for Energy and Environment, Dipartimento di Ingegneria, Università della Tuscia, candidate: A. Redl
2020-2023	Supervisor for PhD. Thesis in Fusion Science and Engineering, Università degli Studi di Padova, candidate: A. Stagni
2022-2025	Supervisor for PhD. Thesis in Engineering for Energy and Environment, Dipartimento di Ingegneria, Università della Tuscia, candidate: Y. Nakeva

PhD Commitee

2014	PhD Commitee at the Department of Physics, Technical University of Denmark. Candidate: N. Yan
2015	PhD Commitee at the Faculté de Sciences de Base, Ecole Polytechnique Federale de Lausanne. Candidate: F. Avino. Thesis N. 6734
2016	PhD Commitee at the Faculté de Sciences de Base, Ecole Polytechnique Federale de Lausanne. Candidate: F. Nespoli. Thesis N. 7475
2017	PhD Commitee at the Department of Physics, University of York. Candidate: A. Wynn

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PhD Commitee presso la Faculté de Sciences de Base, Ecole Polytechnique Federale de Lausanne. Candidate: P. Paruta. Thesis N. 8944
PhD Commitee at the Department of Physics, Technical University of Denmark. Candidate: J. M. Bolsen
PhD Commitee at the Faculté de Sciences de Base, Ecole Polytechnique Federale de Lausanne. Candidate: C. Beadle. Thesis N. 8279
PhD Rapporteur at the Aix-Marseille Université Candidate: R. Tatali

PhD Rapporteur at the Aix-Marseille Université Candidate: M. Scotto d'Abusco

Evaluation panel

2022

2013	Reviewer for grant Futuro in Ricerca 2013, Proposal N. RBFR13MXVQ
2013	Reviewer for grant PRIN 2012, Proposal N. 2012XAS7WZ
2020	Reviewer for application to the Department of Energy, Office of Fusion Energy Science, USA
2020	Reviewer for application to the Czech Academy of Science
2020	Reviewer for application to Sweden Research Council

Conferences Program Committee

Member of the Program Committee of the 48th EPS Conference on Plasma Physics
 Member of the Program Committee of the 2025 EU-US Transport Task Force meeting

Bibliography

Total number of Articles in peer reviewed journal: 161

First oral contributions: 22

Not included in the publication list approximately 100 conference proceedings.

h-index factor: 36 according to ISI Web of Knowledge (last update September 9, 2024) or 47 according to Google scholar (last update September 9, 2024), 42 secondo Scopus (al September 9, 2024)

Article in peer-review journal

- [A1] Carraro, L., Zuin, M., Abate, D., Agostinetti, P., Agostini, M., Aprile, D., Barbisan, M., Belpane, A., Berton, G., Bonotto, M., Brombin, M., Cavazzana, R., Cinnirella, L., Ciufo, S., Croci, G., Cordaro, L., D'Isa, F., Bello, S. D., Molin, A. D., Masi, G. D., Emma, G., Fadone, M., Fassina, A., Fiorucci, D., Franz, P., Grando, L., Guiotto, F., Matina, M. L., Marchiori, G., Marconato, N., Mario, I., Marrelli, L., Milazzo, R., Molisani, S., Moresco, M., Muraro, A., Cippo, E. P., Peruzzo, S., Porcu, P., Pomaro, N., Puiatti, M., Putignano, O., Rigamonti, D., Garola, A. R., Rizzolo, A., Ruffini, F., Scarin, P., Spagnolo, S., Spolaore, M., Taliercio, C., Tardocchi, M., Terranova, D., Ugoletti, M., Valisa, M., Vianello, N., and Zaniol, B. (2024) "RFX-mod2 diagnostic capability enhancements for the exploration of multi-magnetic-configurations", Nuclear Fusion 64, 076032.
- [A2] Grover, O., Manz, P., Yashin, A., Réfy, D., Seidl, J., Vianello, N., Birkenmeier, G., Solano, E., Sos, M., Bohm, P., Bilkova, P., Hron, M., Panek, R., Team, t. A. U., Team, t. C., Team, t. G.-M., and Contributors, J. (2024) "Experimentally corroborated model of pressure relaxation limit cycle oscillations in the vicinity of the transition to high confinement in tokamaks", Nuclear Fusion 64, 026001.
- [A3] Mancini, D., Ricci, P., **Vianello, N.**, Parys, G. V., and Oliveira, D. (2024) "Self-consistent multi-component simulation of plasma turbulence and neutrals in detached conditions", Nuclear Fusion **64**, 016012.

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- [A4] Redl, A., Eich, T., Vianello, N., Adamek, J., Bernert, M., Birkenmeier, G., Brida, D., David, P., Faitsch, M., Fischer, R., Grenfell, G., Ochoukov, R., Rohde, V., Tal, B., Dreval, M., Team, t. A. U., and Team, t. E. T. E. (2024) "An extensive analysis of SOL properties in high-δ plasmas in ASDEX Upgrade", Nuclear Fusion 64, 086064.
- [A5] Stagni, A., **Vianello, N.**, Agostini, M., Colandrea, C., Gorno, S., Labit, B., Sheikh, U., Simons, L., Sun, G., Tsui, C., Ugoletti, M., Wang, Y., Wüthrich, C., Boedo, J., Reimerdes, H., Theiler, C., and Team, t. T. (2024) "The effect of plasma shaping on high density H-mode SOL profiles and fluctuations in TCV", Nuclear Fusion **64**, 026016.
- [A6] Terranova, D., Agostini, M., Auriemma, F., Gobbin, M., Marchiori, G., Pigatto, L., Porcu, P., Predebon, I., Spizzo, G., Vianello, N., Zanca, P., Abate, D., Bolzonella, T., Bonfiglio, D., Bonotto, M., Cappello, S., Carraro, L., Cavazzana, R., Franz, P., Lorenzini, R., Marrelli, L., Milazzo, R., Peruzzo, S., Puiatti, M., Scarin, P., Spolaore, M., Tomasina, E., Valisa, M., Veranda, M., Zaniol, B., and Zuin, M. (2024) "RFX-mod2 as a flexible device for reversed-field-pinch and low-field tokamak research", Nuclear Fusion 64, 076003.
- [A7] Tonello, E., Mombelli, F., Février, O., Alberti, G., Bolzonella, T., Durr-Legoupil-Nicoud, G., Gorno, S., Reimerdes, H., Theiler, C., Vianello, N., Passoni, M., Team, t. T., and Team, t. W. (2024) "Modelling of power exhaust in TCV positive and negative triangularity L-mode plasmas", Plasma Physics and Controlled Fusion 66, 065006.
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Declaration

I hereby declare that the above information are true and correct to the best of my knowledge and belief and in the event of any information being found false or incorrect, my candidature will be liable to be canceled.

Padova, September 9, 2024

Micola Vianello)

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