

Publications

I have authored a total number of 154 papers and conference proceedings.

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Refereed research papers

1. V. Antoni, R. Cavazzana, L. Fattorini, E. Martines, G. Serianni, M. Spolaore, L. Tramontin, and N. Vianello (2000). Effects of pulsed poloidal current drive on the edge region of a reversed field pinch plasma. *Plasma Physics and Controlled Fusion* 42(8), 893–904.
2. V. Antoni, E. Martines, D. Desideri, L. Fattorini, G. Serianni, M. Spolaore, L. Tramontin, and N. Vianello (2000). Electrostatic transport reduction induced by flow shear modification in a reversed field pinch plasma. *Plasma Physics and Controlled Fusion* 42(2), 83–90.
3. V. Antoni, V. Carbone, R. Cavazzana, G. Regnoli, N. Vianello, E. Spada, L. Fattorini, E. Martines, G. Serianni, M. Spolaore, L. Tramontin, and P. Veltri (2001). Transport processes in reversed-field-pinch plasmas: Inconsistency with the self-organized-criticality paradigm. *Phys. Rev. Lett.* 87(4), 045001.
4. V. Antoni, V. Carbone, E. Martines, G. Regnoli, G. Serianni, N. Vianello, and P. Veltri (2001). Electrostatic turbulence intermittency and MHD relaxation phenomena in a RFP plasma. *Europhys Lett* 54(1), 51–57.
5. V. Antoni, M. Valisa, L. Apolloni, M. Bagatin, W. Baker, O. Barana, R. Bartiromo, P. Bettini, A. Boboc, T. Bolzonella, A. Buffa, A. Canton, S. Cappello, L. Carraro, R. Cavazzana, G. Chitarin, S. Costa, F. D'Angelo, S. D. Bello, A. D. Lorenzi, D. Desideri, D. F. Escande, L. Fattorini, P. Fiorentin, P. Franz, E. Gaio, L. Garzotti, L. Giudicotti, F. Gnesotto, L. Grando, S. Guo, P. Innocente, A. Intravaia, R. Lorenzini, A. Luchetta, G. Malesani, G. Manduchi, G. Marchiori, L. Marrelli, P. Martin, E. Martines, S. Martini, A. Maschio, A. Masiello, F. Milani, M. Moresco, A. Murari, P. Nielsen, M. O'Gorman, S. Ortolani, R. Paccagnella, R. Pasqualotto, B. Pegourie, S. Peruzzo, R. Piovan, N. Pomaro, A. Ponno, G. Preti, M. Puiatti, G. Rostagni, F. Sattin, P. Scarin, G. Serianni, P. Sonato, E. Spada, G. Spizzo, M. Spolaore, C. Taliercio, G. Telesca, D. Terranova, V. Toigo, L. Tramontin, N. Vianello, M. Viterbo, L. Zabeo, P. Zaccaria, P. Zanca, B. Zaniol, L. Zanutto, E. Zilli, and G. Zollino (2001). Transport mechanisms and enhanced confinement studies in RFX. *Nucl. Fusion* 41(4), 431–436.
6. E. Martines, M. Spolaore, V. Antoni, G. Regnoli, N. Vianello, R. Cavazzana, G. Serianni, and L. Tramontin (2001). E x B velocity shear and intermittent structures in RFX. *Czechoslovak Journal Of Physics* 51(10), 983–993.
7. G. Serianni, V. Antoni, H. Bergsaker, P. R. Brunzell, J. Drake, M. Spolaore, H. Satherblom, and N. Vianello (2001). Electrostatic fluxes and plasma rotation in the edge region of EXTRAP-T2R. *Czechoslovak Journal Of Physics* 51(10), 1119–1127.
8. E. Spada, V. Carbone, R. Cavazzana, L. Fattorini, G. Regnoli, N. Vianello, V. Antoni, E. Martines, G. Serianni, M. Spolaore, and L. Tramontin (2001). Search of self-organized criticality processes in magnetically confined plasmas: Hints from the reversed field pinch configuration. *Phys. Rev. Lett.* 86(14), 3032–3035.
9. M. Spolaore, V. Antoni, M. Bagatin, D. Desideri, L. Fattorini, E. Martines, G. Serianni, L. Tramontin, and N. Vianello (2001). Study of edge plasma properties comparing operation in hydrogen and helium in RFX. *Journal of Nuclear Materials* 290-293, 729–732.
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11. P. Martin, S. Martini, V. Antoni, L. Apolloni, M. Bagatin, W. Baker, O. Barana, R. Bartiromo, P. Bettini, A. Boboc, T. Bolzonella, A. Buffa, A. Canton, S. Cappello, L. Carraro, R. Cavazzana, G. Chitarin, S. Costa, F. D'Angelo, S. D. Bello, A. D. Lorenzi, D. Desideri, D. F. Escande, L. Fattorini, P. Fiorentin, P. Franz, E. Gaio, L. Garzotti, L. Giudicotti, F. Gnesotto, L. Grando, S. Guo, P. Innocente, A. Intravaia, R. Lorenzini, A. Luchetta, G. Malesani, G. Manduchi, G. Marchiori, L. Marrelli, E. Martines, A. Maschio, A. Masiello, F. Milani, M. Moresco, A. Murari, P. Nielsen, M. O'Gorman, S. Ortolani, R. Paccagnella, R. Pasqualotto, B. Pegourie, S. Peruzzo, R. Piovan, N. Pomaro, A. Ponno, G. Preti, M. Puiatti, G. Rostagni, F. Sattin, P. Scarin, G. Serianni, P. Sonato, E. Spada, G. Spizzo, M. Spolaore, C. Taliercio, G. Telesca, D. Terranova, V. Toigo, L. Tramontin, M. Valisa, N. Vianello, M. Viterbo, L. Zabeo, P. Zaccaria, P. Zanca, B.

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 13. M. Spolaore, V. Antoni, R. Cavazzana, G. Regnoli, G. Serianni, E. Spada, N. Vianello, H. Bergs aker, and J. Drake (2002). Effects of ExB velocity shear on electrostatic structures. *Phys. Plasmas* **9**(10), 4110–4113.
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 21. F. Sattin, N. Vianello, and M. Valisa (2004). On the probability distribution function of particle density at the edge of fusion devices. *Phys. Plasmas* **11**(11), 5032.
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 23. V. Antoni, E. Spada, N. Vianello, M. Spolaore, R. Cavazzana, G. Serianni, and E. Martines (2005). Shear flows generated by plasma turbulence and their influence on transport. *Plasma Physics and Controlled Fusion* **47**(12B), B13–B23.
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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.

A handwritten signature in black ink, appearing to read 'Nicola Vianello', with a long, sweeping horizontal line extending to the left.

Nicola Vianello
Padova, Monday 7th January, 2013