

## Prodotti della ricerca scelti

- [1] 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 "Transport processes in reversed-field-pinch plasmas: Inconsistency with the self-organized-criticality paradigm", Phys. Rev. Lett. **87**, 045001, (2001).
- [2] E. Spada, V. Carbone, R. Cavazzana, L. Fattorini, G. Regnoli, **N. Vianello**, V. Antoni, E. Martines, G. Serianni, M. Spolaore, and L. Tramontin "Search of self-organized criticality processes in magnetically confined plasmas: Hints from the reversed field pinch configuration", Phys. Rev. Lett. **86**, 3032–3035, (2001).
- [3] F. Sattin, **N. Vianello**, and M. Valisa "On the probability distribution function of particle density at the edge of fusion devices", Phys. Plasmas **11**, 5032, (2004).
- [4] M. Spolaore, V. Antoni, E. Spada, H. Bergsåker, R. Cavazzana, J. Drake, E. Martines, G. Regnoli, G. Serianni, and **N. Vianello** "Vortex-induced diffusivity in reversed field pinch plasmas", Phys. Rev. Lett. **93**, 215003, (2004).
- [5] **N. Vianello**, E. Spada, V. Antoni, M. Spolaore, G. Serianni, G. Regnoli, R. Cavazzana, H. Bergsåker, and J. R. Drake "Self-Regulation of ExB Flow Shear via Plasma Turbulence", Physical Review Letters **94**, 135001, (2005).
- [6] R. Lorenzini, E. Martines, P. Piovesan, D. Terranova, P. Zanca, M. Zuin, A. Alfier, D. Bonfiglio, F. Bonomo, A. Canton, S. Cappello, L. Carraro, R. Cavazzana, D. Escande, A. Fassina, P. Franz, M. Gobbin, P. Innocente, L. Marrelli, R. Pasqualotto, M. Puiatti, M. Spolaore, M. Valisa, N. Vianello, and P. Martin "Self-organized helical equilibria as a new paradigm for ohmically heated fusion plasmas", Nat Phys 5, 570–754, (2009).
- [7] M. Spolaore, **N. Vianello**, M. Agostini, R. Cavazzana, E. Martines, P. Scarin, G. Serianni, E. Spada, M. Zuin, and V. Antoni "Direct Measurement of Current Filament Structures in a Magnetic-Confinement Fusion Device", Phys. Rev. Lett. **102**, 165001, (2009).
- [8] I. Furno, M. Spolaore, C. Theiler, **N. Vianello**, R. Cavazzana, and A. Fasoli "Direct Two-Dimensional Measurements of the Field-Aligned Current Associated with Plasma Blobs", Physical Review Letters **106**, 245001, (June 2011).
- [9] **N. Vianello**, V. Naulin, R. Schrittwieser, H. W. M uller, M. Zuin, C. Ionita, J. J. Rasmussen, F. Mehlmann, V. Rohde, R. Cavazzana, and M. Maraschek "Direct Observation of Current in Type-I Edge-Localized-Mode Filaments on the ASDEX Upgrade Tokamak", Physical Review Letters **106**, 125002, (2011).
- [10] D. Carralero, P. Manz, L. Aho-Mantila, G. Birkenmeier, M. Brix, M. Groth, H. W. Müller, U. Stroth, N. Vianello, E. Wolfrum, ASDEX Upgrade Team, JET Contributors, and EUROfusion MST1 Team "Experimental Validation of a Filament Transport Model in Turbulent Magnetized Plasmas", Physical Review Letters 115, 215002, (Nov. 2015).