

National and International Journals

- R.1 Alternative Definitions of Complexity for Practical Applications of Model Selection Criteria**
A. Murari R. Rossi, T. Craciunescu
Complexity, Open Access, **2021**, (2021) n. 8887171 <https://doi.org/10.1155/2021/8887171>
- R.2 Investigation of the density shoulder formation by using self-consistent simulations of plasma turbulence and neutral kinetic dynamics**
D. Mancini, P. Ricci, N. Vianello, M. Giacomini, A. Corrado
Nucl Fusion, **61**, 12 (2021), <https://doi.org/10.1088/1741-4326/ac30c9>
- R.3 Study of rf stray currents in iter neutral beam test facilities**
R. Casagrande, A. Maistrello, M. De Nardi, M. Dan, M. Recchia
Appl. Sci. (Switzerland), **11**, 23 (2021), <https://doi.org/10.3390/app112311126>
- R.4 Application studies of the modular multilevel converter topology to the acceleration grid power supply of the DEMO neutral beam injector**
D. Ratti, A. Ferro, F. Santoro, E. Gaio
Fusion Eng Des, **173** (2021); <https://doi.org/10.1016/j.fusengdes.2021.112907>
- R.5 First results from beam emission spectroscopy in SPIDER negative ion source**
M. Barbisan, B. Zaniol, R. Pasqualotto, G. Serianni, M. Ugoletti
Plasma Phys. Control. Fusion, **63**, 12 (2021); <http://doi.org/10.1088/1361-6587/ac2eb2>
- R.6 Power supply system for large negative ion sources: Early operation experience on the SPIDER experiment**
A. Zamengo, M. Bigi, A. Maistrello, M. Recchia
Fusion Eng Des, **173** (2021), <https://doi.org/10.1016/j.fusengdes.2021.112790>
- R.7 Feasibility study of RFX-mod2 performance improvement by additional magnetic energy storage**
F. Lunardon, A. Maistrello, E. Gaio, R. Piovan
Fusion Eng Des, **173** (2021), <https://doi.org/10.1016/j.fusengdes.2021.112791>
- R.8 Application of a Stochastic Multicriteria Acceptability Analysis to support decision-making within a macro-scale energy model: Case study of the electrification of the road European transport sector**
D. Lerede, G. Pinto, M. Saccone, C. Bustreo, A. Capozzoli, L. Savoldi
Energy, **236** (2021), <https://doi.org/10.1016/j.energy.2021.121444>
- R.9 SIMS and HR-XPS characterization of lithiated graphite from the magnetic fusion device RFX-mod**
B. Rais, E.T. Ostrowski, A. Canton, C.H. Skinner, S. Barison, S. Fiameni, B.E. Koel
Appl Surf Sci, **567** (2021), <https://doi.org/10.1016/j.apsusc.2021.150830>
- R.10 Plasma-activated water triggers rapid and sustained cytosolic Ca²⁺ elevations in *arabidopsis thaliana***
E. Cortese, A.G. Settini, S. Pettenuzzo, L. Cappellin, A. Galenda, A. Famengo, M. Dabalà, V. Antoni, L. Navazio
Plants, **10**, 11 (2021), <http://dx.doi.org/10.3390/plants10112516>
- R.11 Collisionless losses of fast ions in the divertor tokamak test due to toroidal field ripple**
G. Spizzo, M. Gobbin, P. Agostinetti, R. Albanese, R. Ambrosino, I. Casiraghi, M. Cecconello, M.V. Falessi, G. Granucci, P. Mantica, P. Martin, M. Vallar, P. Vincenzi, G. Vlad, R.B. White, F.

Zonca

Nucl Fusion, **61**, 11 (2021), <https://doi.org/10.1088/1741-4326/ac1e08>

R.12 PHAD: A phase-oriented disruption prediction strategy for avoidance, prevention, and mitigation in JET

G.A. Rattá, J. Vega, A. Murari, D. Gadariya

Nucl Fusion, **61**, 11 (2021), <https://doi.org/10.1088/1741-4326/ac2637>

R.13 Resistive wall mode stability and resonant field amplification in MAST high beta plasma

Y. Liu, A. Kirk, D.L. Keeling, L. Kogan, X.D. Du, L. Li, L. Piron, D.A. Ryan, A.D. Turnbull

Nucl Fusion, **61**, 11 (2021), <http://dx.doi.org/10.1088/1741-4326/ac263a>

R.14 The isotope effects in RFP magnetic configuration

R. Lorenzini, M. Gobbin

Plasma Phys. Control. Fusion, **63**, 11 (2021), <https://doi.org/10.1088/1361-6587/ac24f9>

R.15 Could clean industrial progresses and the rise of electricity demand foster the penetration of nuclear fusion in the European energy mix?

D. Lerede, M. Saccone, C. Bustreo, F. Gracceva, L. Savoldi

Fusion Eng Des, **172** (2021), <https://doi.org/10.1016/j.fusengdes.2021.112880>

R.16 Design and procurement of the Drying System for SPIDER beam source

F. Fellin, M.D. Palma, P. Tinti, P. Zaccaria, M. Zaupa

Fusion Eng Des, **172** (2021), <https://doi.org/10.1016/j.fusengdes.2021.112873>

R.17 Thermal quench and current profile relaxation dynamics in massive-material-injection-triggered tokamak disruptions

E. Nardon, D. Hu, F.J. Artola, D. Bonfiglio, M. Hoelzl, A. Boboc, P. Carvalho, S. Gerasimov, G. Huijsmans, V. Mitterauer, N. Schwarz, H. Sun

Plasma Phys. Control. Fusion, **63**, 11 (2021), <https://doi.org/10.1088/1361-6587/ac234b>

R.18 First principle-based multi-channel integrated modelling in support of the design of the Divertor Tokamak Test facility

I. Casiraghi, P. Mantica, F. Koechl, R. Ambrosino, B. Baiocchi, A. Castaldo, J. Citrin, M. Dicorato, L. Frassinetti, A. Mariani, P. Vincenzi, P. Agostinetti, L. Aucone, L. Balbinot, S. Ceccuzzi, L. Figini, G. Granucci, P. Innocente, T. Johnson, H. Nyström, M. Valisa

Nucl Fusion, **61**, 11 (2021), <https://doi.org/10.1088/1741-4326/ac21b9>

R.19 Characterization and operational stability of EJ276 plastic scintillator-based detector for neutron spectroscopy

O. McCormack, L. Giacomelli, G. Croci, A. Muraro, G. Gorini, G. Grosso, R. Pasqualotto, E. Perelli Cippo, M. Rebai, D. Rigamonti, M. Tardocchi

J. Instrum., **16**, 10 (2021), <https://doi.org/10.1088/1748-0221/16/10/P10002>

R.20 Accelerating the charge inversion algorithm with hierarchical matrices for gas insulated systems

F. Lucchini, N. Marconato

J. Phys.: Conf. Ser. **2090** 012136 (2021), 10th International Conference on Mathematical Modeling in Physical Sciences (IC-MSQUARE 2021) (Virtual) <https://doi.org/10.1088/1742-6596/2090/1/012136>

R.21 A comparison between current-based integral equations approaches for eddy current problems

F. Lucchini, N. Marconato

J. Phys.: Conf. Ser. **2090** 012137 (2021), 10th International Conference on Mathematical Modeling in Physical Sciences (IC-MSQUARE 2021) (Virtual) <https://doi.org/10.1088/1742-6596/2090/1/012137>

R.22 Breakdown of adiabatic invariance of fast ions in spherical tokamaks

D.F. Escande, F. Sattin

- Nucl Fusion*, **61**, 10 (2021), <https://doi.org/10.1088/1741-4326/ac21fb>
- R.23 Closed-form solution of adiabatic particle trajectories in axis-symmetric magnetic fields**
F. Sattin, D.F. Escande
Symmetry, **13**, 10 (2021), <http://dx.doi.org/10.3390/sym13101784>
- R.24 The achievement of the $T_{e,div}$ feedback control by CD4seeding on EAST**
K. Wu, Q. Yuan, G. Xu, L. Wang, D. Eldon, K. Li, X. Liu, L. Meng, L. Zhang, Y. Wang, Y. Duan, M. Chen, J. Liu, Z. Luo, G. Calabrò, B. Xiao, J. Barr, H. Guo, P. Innocente, J. Li
Plasma Phys. Control. Fusion, **63**, 10 (2021), <https://doi.org/10.1088/1361-6587/ac1b20>
- R.25 On the role of dissociative recombination on the effectiveness of a plasma neutralizer in DEMO fusion plant**
A. Pimazzoni, E. Sartori, G. Serianni
Fusion Eng Des, **171** (2021), <https://doi.org/10.1016/j.fusengdes.2021.112693>
- R.26 Key EU DEMO plant and building layout criteria**
S. Ciattaglia, G. Federici, L. Barucca, M. de Magistris, E. Gaio, C. Gliss, M. Koerber, I. Moscato, M.T. Porfiri, F. Riedl, A. Tarallo
Fusion Eng Des, **171** (2021), <https://doi.org/10.1016/j.fusengdes.2021.112567>
- R.27 The beamline for the ITER heating neutral beam injectors: A case study for development and procurement of high heat flux components**
M. Dalla Palma, R. Pasqualotto, E. Sartori, P. Tinti, P. Zaccaria, M. Zaupa, A. Krilov, A. Panasenkov, P. Blatchford, B. Chuilon, Y. Xue, S. Hanke, S.L. Ochoa Guaman, J. Graceffa, E. Bragulat, G. Micò Montava, J.F. Morenog Canamero
Fusion Eng Des, **171** (2021), <http://dx.doi.org/10.1016/j.fusengdes.2021.112559>
- R.28 Development and validation of a special protection system for internal fault in a high-power three-level NPC VSC**
M. Dan, L. Zanotto, E. Gaio, Panizza, C. Finotti, M. Perna
Energies, **14**, 18 (2021), <https://doi.org/10.3390/en14185937>
- R.29 Scaling laws of the energy confinement time in stellarators without renormalization factors**
A. Murari, E. Peluso, J. Vega, J.M. García-Regaña, J.L. Velasco, G. Fuchert, M. Gelfusa
Nucl Fusion, **61**, 9 (2021), <https://doi.org/10.1088/1741-4326/ac0cbb>
- R.30 Improved treatment of the independent variables for the deployment of model selection criteria in the analysis of complex systems**
L. Spolladore, M. Gelfusa, R. Rossi, A. Murari
Entropy, **23**, 9 (2021), <https://doi.org/10.3390/e23091202>
- R.31 Automatic optimization of gas insulated components based on the streamer inception criterion**
F. Lucchini, N. Marconato, P. Bettini
Electronics (Switzerland), **10**, 18 (2021), <https://doi.org/10.3390/electronics10182280>
- R.32 Functional Analysis for the diagnostic systems to support the exploitation of the Divertor Tokamak Test facility**
G. Tenaglia, F. Romanelli, S. La Rovere, G.M. Polli, L. Gabellieri, Valisa M.
Fusion Eng Des, **170** (2021), <https://doi.org/10.1016/j.fusengdes.2021.112692>
- R.33 Parameter dependencies of the experimental nitrogen concentration required for detachment on ASDEX Upgrade and JET**
S.S. Henderson, M. Bernert, C. Giroud, D. Brida, M. Cavedon, P. David, R. Dux, J.R. Harrison, A. Huber, A. Kallenbach, J. Karhunen, B. Lomanowski, G. Matthews, A. Meigs, R.A. Pitts, F. Reimold, M.L. Reinke, S. Silburn, N. Vianello, S. Wiesen, M. Wischmeier, ASDEX Upgrade team the EUROfusion MST1 team, JET contributors
Nucl. Mater. Energy, **28** (2021), <https://doi.org/10.1016/j.nme.2021.101000>

- R.34 Draining analyses of the primary cooling circuits of the SPIDER Beam Source**
M. Zaupa, P. Tinti, M. Dalla Palma, F. Fellin, P. Zaccaria
Fusion Eng Des, **170** (2021), <https://doi.org/10.1016/J.FUSENGDES.2021.112531>
- R.35 Advanced high-performance processing tools for diagnostics and control in fusion devices**
N. Cruz, A.J.N. Batista, J.M. Cardoso, B.B. Carvalho, P.F. Carvalho, A. Combo, M. Correia, A. Fernandes, R.C. Pereira, A.P. Rodrigues, B. Santos, J. Sousa, B. Gonçalves
Fusion Eng Des, **170** (2021), <https://doi.org/10.1016/j.fusenqdes.2021.112529>
- R.36 Calorimeter conceptual design for Neutral Beam Injector of DTT - CFD optimisation and thermal stress analysis**
B. Končar, D. Ovtar, O. Costa Garrido, P. Agostinetti
Fusion Eng Des, **170** (2021), <http://doi.org/10.1016/j.nucengdes.2021.111432>
- R.37 Modelling Fast Response Surface Thermocouple for Plasma Facing Components**
M.D. Palma, M. Spolaore
IEEE Sensors Journal, **21**, 16 (2021), <https://doi.org/10.1109/JSEN.2021.3085478>
- R.38 The helical resonator: A scheme for radio frequency plasma generation**
E. Martines, R. Cavazzana, L. Cordaro, M. Zuin
Appl. Sci. (Switzerland), **11**, 16 (2021), <https://doi.org/10.3390/app11167444>
- R.39 Real-Time Implementation of the Neutron/Gamma Discrimination in an FPGA-Based DAQ MTCA Platform Using a Convolutional Neural Network**
M. Astrain, M. Ruiz, A. V. Stephen, R. Sarwar, A. Carpeño, S. Esquembri, A. Murari, F. Belli, Marco Riva,
IEEE Trans Nucl Sci, **68**, 8, 2173-2178, <https://doi.org/10.1109/TNS.2021.3090670>
- R.40 Demonstration of reduced neoclassical energy transport in Wendelstein 7-X**
C.D. Beidler, H.M. Smith, A. Alonso, T. Andreeva, J. Baldzuhn, M.N.A. Beurskens, M. Borchardt, S.A. Bozhnikov, K.J. Brunner, H. Damm, M. Drevlak, O.P. Ford, G. Fuchert, J. Geiger, P. Helander, U. Hergenbahn, M. Hirsch, U. Höfel, Y.O. Kazakov, R. Kleiber, M. Krychowiak, S. Kwak, A. Langenberg, H.P. Laqua, U. Neuner, N.A. Pablant, E. Pasch, A. Pavone, T.S. Pedersen, K. Rahbarnia, J. Schilling, E.R. Scott, T. Stange, J. Svensson, H. Thomsen, Y. Turkin, F. Warmer, R.C. Wolf, D. Zhang, I. Abramovic, S. Äkäslompolo, J. Alcusón, P. Aleynikov, K. Aleynikova, A. Ali, A. Alonso, G. Anda, E. Ascasibar, J.P. Böhner, S.G. Baek, M. Balden, M. Banduch, T. Barbui, W. Behr, A. Benndorf, C. Biedermann, W. Biel, B. Blackwell, E. Blanco, M. Blatzheim, S. Ballinger, T. Bluhm, D. Böckenhoff, B. Böswirth, L.-G. Böttger, V. Borsuk, J. Boscary, H.-S. Bosch, R. Brakel, H. Brand, C. Brandt, T. Bräuer, H. Braune, S. Brezinsek, K.-J. Brunner, R. Burhenn, R. Bussiahn, B. Buttenschön, V. Bykov, J. Cai, I. Calvo, B. Cannas, A. Cappa, A. Carls, L. Carraro, B. Carvalho, F. Castejon, A. Charl, N. Chaudhary, D. Chauvin, F. Chernyshev, M. Cianciosa, R. Citarella, G. Claps, J. Coenen, M. Cole, M.J. Cole, F. Cordella, G. Cseh, A. Czarnecka, K. Czerski, M. Czerwinski, G. Czymek, A. da Molin, A. da Silva, A. de la Pena, S. Degenkolbe, C.P. Dhard, M. Dibon, A. Dinklage, T. Dittmar, P. Drewelow, P. Drews, F. Durodie, E. Edlund, F. Effenberg, G. Ehrke, S. Elgeti, M. Ender, D. Ennis, H. Esteban, T. Estrada, J. Fellinger, Y. Feng, E. Flom, H. Fernandes, W.H. Fietz, W. Figacz, J. Fontdecaba, T. Fornal, H. Frerichs, A. Freund, T. Funaba, A. Galkowski, G. Gantenbein, Y. Gao, J. García Regaña, D. Gates, B. Geiger, V. Giannella, A. Gogoleva, B. Goncalves, A. Gorjaev, D. Gradic, M. Grahl, J. Green, H. Greuner, A. Grosman, H. Grote, M. Gruca, O. Grulke, C. Guerard, P. Hacker, X. Han, J.H. Harris, D. Hartmann, D. Hathiramani, B. Hein, B. Heinemann, P. Helander, S. Henneberg, M. Henkel, U. Hergenbahn, J. Hernandez Sanchez, C. Hidalgo, K.P. Hollfeld, A. Hölting, D. Höschen, M. Houry, J. Howard, X. Huang, Z. Huang, M. Hubeny, M. Huber, H. Hunger, K. Ida, T. Ilkei, S. Illy, B. Israeli, S. Jablonski, M. Jakubowski, J. Jelonnek, H. Jenzsch, T. Jesche, M. Jia, P. Junghanns, J. Kacmarczyk, J.-P. Kallmeyer, U. Kamionka, H. Kasahara, W. Kasperek, N. Kenmochi, C. Killer, A. Kirschner, T. Klinger, J. Knauer, M. Knaup, A. Knieps, T.

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R.41 Latest experimental and theoretical advances in the production of negative ions in caesium-free plasmas

F. Taccogna, S. Bechu, A. Aanesland, P. Agostinetti, R. Agnello, S. Aleiferis, T. Angot, V. Antoni, M. Bacal, M. Barbisan, J. Bentounes, A. Bès, M. Capitelli, G. Cartry, M. Cavenago, R. Celiberto, G. Chitarin, R. Delogu, A. De Lorenzi, F. Esposito, M. Fadone, N. Ferron, G. Fubiani, I. Furno, L. Gavilan, P. Guittienne, A. Howling, R. Jacquier, A. Laricchiuta, J.M. Layet, J.L. Lemaire, S. Longo, B. Maurice, P. Minelli, M. Minissale, M. Mitrou, R. Moussaoui, A. Pimazzoni, C. Poggi, D. Rafalskyi, E. Salomon, E. Sartori, M. Sasao, G. Serianni, E. Spada, S. Suweis, P. Svarnas, L. Tahri, M. Ugoletti, V. Variale, P. Veltri

Eur. Phys. J. D, **75**, 8 (2021), <https://doi.org/10.1140/epjd/s10053-021-00228-y>

R.42 Diagnostic Data Integration Using Deep Neural Networks for Real-Time Plasma Analysis

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R.43 First results of SPIDER beam characterization through the visible tomography

- M. Ugoletti, M. Agostini, M. Brombin, F. Molon, R. Pasqualotto, G. Serianni
Fusion Eng Des, **169** (2021), <https://doi.org/10.1016/j.fusengdes.2021.112667>
- R.44 Conceptual design of the power supplies for DTT Neutral Beam Injector**
A. Ferro, F. Lucchini, P. Agostinetti, D. Ratti, G. Granucci, A. Romano, R. Romano, A. Cucchiaro, A. Princiotta
Fusion Eng Des, **169** (2021), <https://doi.org/10.1016/j.fusengdes.2021.112624>
- R.45 Design of the new supporting structure for the passive stabilizing shell assembly of RFX-mod2**
G. Berton, M. Bernardi, M. Dalla Palma, D. Marcuzzi, M. Pavei, S. Peruzzo
Fusion Eng Des, **169** (2021), <https://doi.org/10.1016/j.fusengdes.2021.112466>
- R.46 Development of the RAPTOR suite of codes towards real-time reconstruction of JET discharges**
C. Piron, F. Felici, B. Faugeras, N. Ferron, G. Manduchi, N. Marconato, C. Meekes, L. Piron, Z. Stancar, D. Valcarcel, D. Voltolina, M. Weiland, the JET Contributors
Fusion Eng Des, **169** (2021), <https://doi.org/10.1016/j.fusengdes.2021.112431>
- R.47 Development of a set of movable electrostatic probes to characterize the plasma in the ITER neutral beam negative ion source prototype**
E. Sartori, M. Brombin, B. Laterza, M. Zuin, R. Cavazzana, V. Cervaro, F. Degli Agostini, M. Fadone, D. Fasolo, L. Grandi, P. Jain, M. Kasaki, A. Maistrello, G. Moro, A. Pimazzoni, C. Poggi, B. Segalini, A. Shepherd, M. Spolaore, C. Taliercio, M. Tollin, M. Ugoletti, P. Veltri, A. Zamengo, G. Serianni
Fusion Eng Des, **169** (2021), <http://doi.org/10.1016/j.fusengdes.2021.112790>
- R.48 Manufacturing, on-site installation and acceptance test activities of the MITICA vacuum vessel**
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- R.62 Magnetic confinement fusion-Experimental physics: Reversed field pinches**
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- R.64 The JOREK non-linear extended MHD code and applications to large-scale instabilities and their control in magnetically confined fusion plasmas**
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- R.93 Characterization of signals for a Divertor Tokamak Test facility interferometer/polarimeter system**
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- R.95 A statistical approach for the automatic identification of the start of the chain of events leading to the disruptions at JET**
E. Aymerich, A. Fanni, G. Sias, S. Carcangiu, B. Cannas, A. Murari, A. Pau

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S. Minucci, P. Innocente, C. Meineri, M. Sertoli, L. Balbinot, I.S. Carvalho, G. Calabrò, JET Contributors

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M. Boldrin, M. Valente, S. Dal Bello, L. Grando, V. Toigo, P. Zaccaria, H. Decamps, H. Tobar, M. Simon, G.G. Escudero, A. Garbuglia

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R.99 First direct comparison of whole beam and single beamlet divergences in a negative ion source with simultaneous BES and CFC tile calorimetry measurements

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R.100 A Zynq-Based Flexible ADC Architecture Combining Real-Time Data Streaming and Transient Recording

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R.102 Fast Fourier transform-volume integral: A smart approach for the electromagnetic design of complex systems in large fusion devices

P. Bettini, R. Torchio, F. Lucchini, D. Voltolina, P. Alotto

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P. Vincenzi, J.-F. Artaud, E. Fable, G. Giruzzi, M. Siccinio, H. Zohm

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R.104 Observation of rotating magnetohydrodynamic modes in the plume of a high-current hollow cathode

G. Becatti, D.M. Goebel, M. Zuin

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R.105 The Reciprocal Influence Criterion: An Upgrade of the Information Quality Ratio

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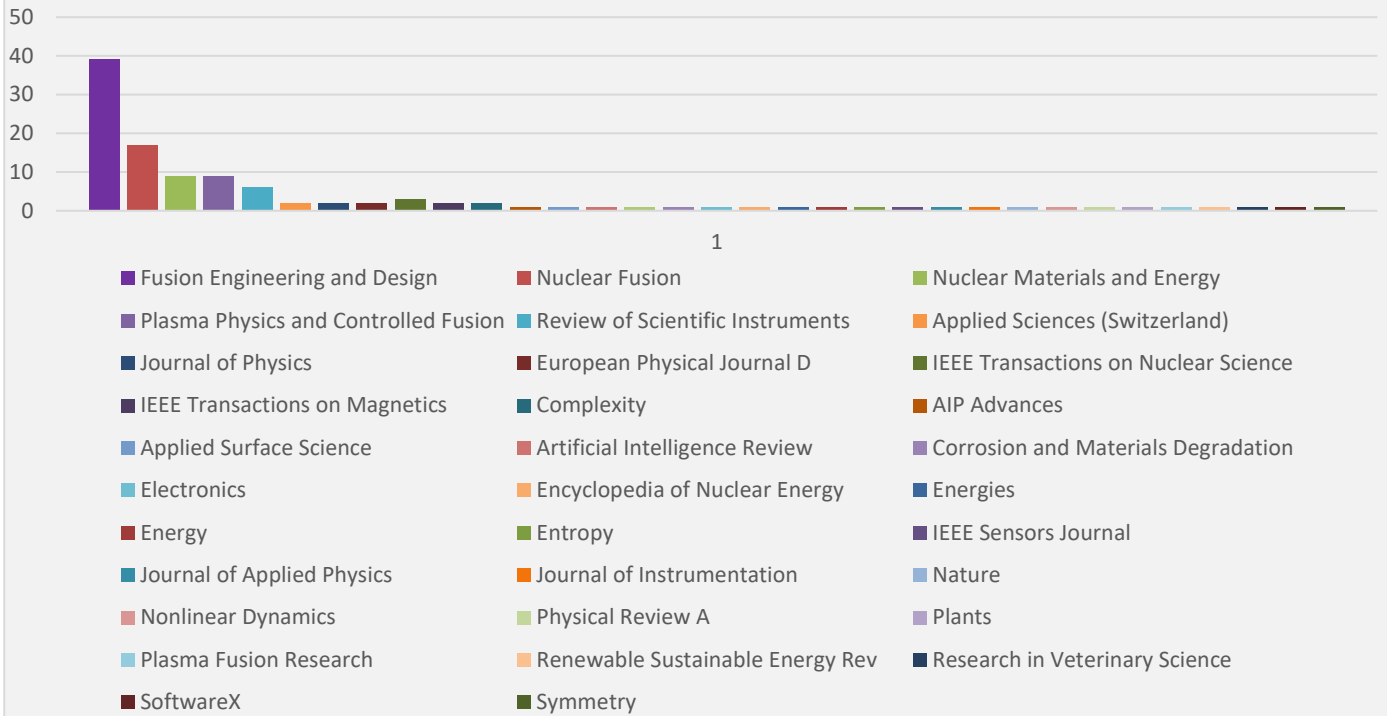
R.106 Conceptual Design of the Beamline for the DTT Neutral Beam Injector following a Double Beam Source Design Approach

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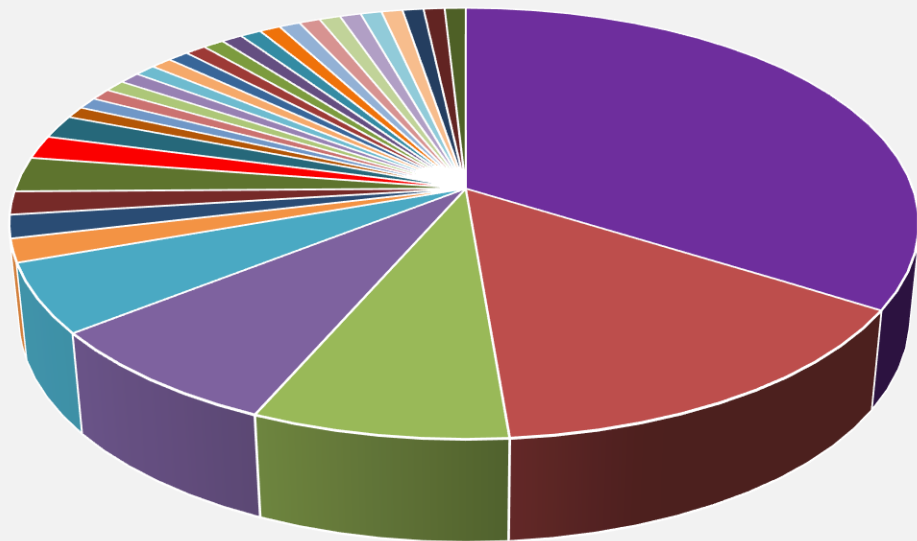
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