

# List of publications for S.J.P. Pamela

Last updated: April 27, 2022

## First-authored publications

- [1] S.J.P. Pamela, G.T.A. Huijsmans, and M. Hoelzl. A generalised formulation of g-continuous bezier elements applied to non-linear mhd simulations. *Journal of Computational Physics*, page 111101, 2022. ISSN 0021-9991. doi: <https://doi.org/10.1016/j.jcp.2022.111101>. URL <https://www.sciencedirect.com/science/article/pii/S0021999122001632>.
- [2] S. J. P. Pamela, A. Bhole, G. T. A. Huijsmans, B. Nkonga, M. Hoelzl, I. Krebs, and E. Strumberger. Extended full-mhd simulation of non-linear instabilities in tokamak plasmas. *Physics of Plasmas*, 27(10):102510, 2020. doi: 10.1063/5.0018208. URL <https://doi.org/10.1063/5.0018208>.
- [3] S. Pamela, G. Huijsmans, A.J. Thornton, A. Kirk, S.F. Smith, M. Hoelzl, and T. Eich. A wall-aligned grid generator for non-linear simulations of mhd instabilities in tokamak plasmas. *Computer Physics Communications*, 243:41–50, 2019. ISSN 0010-4655. doi: <https://doi.org/10.1016/j.cpc.2019.05.007>. URL <https://www.sciencedirect.com/science/article/pii/S0010465519301560>.
- [4] S.J.P. Pamela, G.T.A. Huijsmans, T. Eich, S. Saarelma, I. Lupelli, C.F. Maggi, C. Giroud, I.T. Chapman, S.F. Smith, L. Frassinetti, M. Becoulet, M. Hoelzl, F. Orain, and S. Futatani. Recent progress in the quantitative validation of JOREK simulations of ELMs in JET. *Nuclear Fusion*, 57(7):076006, may 2017. doi: 10.1088/1741-4326/aa6e2a. URL <https://doi.org/10.1088/1741-4326/aa6e2a>.
- [5] S Pamela, T Eich, L Frassinetti, B Sieglin, S Saarelma, G Huijsmans, M Hoelzl, M Becoulet, F Orain, S Devaux, I Chapman, I Lupelli, and E Solano and. Non-linear MHD simulations of ELMs in JET and quantitative comparisons to experiments. *Plasma Physics and Controlled Fusion*, 58(1):014026, nov 2015. doi: 10.1088/0741-3335/58/1/014026. URL <https://doi.org/10.1088/0741-3335/58/1/014026>.
- [6] S J P Pamela, G T A Huijsmans, A Kirk, I T Chapman, J R Harrison, R Scannell, A J Thornton, M Becoulet, and F Orain and. Resistive MHD simulation of edge-localized-modes for double-null discharges in the MAST device. *Plasma Physics and Controlled Fusion*, 55(9):095001, jul 2013. doi: 10.1088/0741-3335/55/9/095001. URL <https://doi.org/10.1088/0741-3335/55/9/095001>.

- [7] S J P Pamela, G T A Huysmans, M N A Beurskens, S Devaux, T Eich, and S Benkadda and. Nonlinear MHD simulations of edge-localized-modes in JET. *Plasma Physics and Controlled Fusion*, 53(5):054014, apr 2011. doi: 10.1088/0741-3335/53/5/054014. URL <https://doi.org/10.1088/0741-3335/53/5/054014>.
- [8] S Pamela, G Huysmans, and S Benkadda. Influence of poloidal equilibrium rotation in MHD simulations of edge-localized modes. *Plasma Physics and Controlled Fusion*, 52(7):075006, jun 2010. doi: 10.1088/0741-3335/52/7/075006. URL <https://doi.org/10.1088/0741-3335/52/7/075006>.

## Co-authored publications

- [1] M. Becoulet, G.T.A. Huijsmans, C. Passeron, Y.Q. Liu, T.E. Evans, L.L. Lao, L. Li, A. Loarte, S.D. Pinches, A. Polevoi, M. Hosokawa, S.K. Kim, S.J.P. Pamela, S. Futatani, and the JOREK Team. Non-linear MHD modelling of edge localized modes suppression by resonant magnetic perturbations in ITER. *Nuclear Fusion*, 62(6):066022, apr 2022. doi: 10.1088/1741-4326/ac47af. URL <https://doi.org/10.1088/1741-4326/ac47af>.
- [2] A. Cathey, M. Hoelzl, G. Harrer, M. G. Dunne, G. T. A. Huijsmans, K. Lackner, S. J. P. Pamela, E. Wolfrum, and S. Günter. MHD simulations of small ELMs at low triangularity in ASDEX upgrade. *Plasma Physics and Controlled Fusion*, 64(5):054011, apr 2022. doi: 10.1088/1361-6587/ac5b4b. URL <https://doi.org/10.1088/1361-6587/ac5b4b>.
- [3] C.J. Ham, A. Bokshi, D. Brunetti, G. Bustos Ramirez, B. Chapman, J.W. Connor, D. Dickinson, A.R. Field, L. Frassinetti, A. Gillgren, J.P. Graves, T.P. Kiviniemi, S. Leerink, B. McMillan, S. Newton, S. Pamela, C.M. Roach, S. Saarelma, J. Simpson, S.F. Smith, E.R. Solano, P. Strand, A.J. Virtanen, and the JET Contributors. Towards understanding reactor relevant tokamak pedestals. *Nuclear Fusion*, 61(9):096013, aug 2021. doi: 10.1088/1741-4326/ac12e9. URL <https://doi.org/10.1088/1741-4326/ac12e9>.
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- [5] M. Hoelzl, G.T.A. Huijsmans, S.J.P. Pamela, M. Bécoulet, E. Nardon, F.J. Artola, B. Nkonga, C.V. Atanasiu, V. Bandaru, A. Bhole, D. Bonfiglio, A. Cathey, O. Czarny, A. Dvornova, T. Fehér, A. Fil, E. Franck, S. Futatani, M. Gruca, H. Guillard, J.W. Haverkort, I. Holod, D. Hu, S.K. Kim, S.Q. Korving, L. Kos, I. Krebs, L. Kripner, G. Latu, F. Liu, P. Merkel, D. Meshcheriakov, V. Mitterauer, S. Mochalsky, J.A. Morales, R. Nies, N. Nikulsin, F. Orain, J. Pratt, R. Ramasamy, P. Ramet, C. Reux, K. Särkimäki, N. Schwarz, P. Singh Verma, S.F. Smith, C. Sommariva, E. Strumberger, D.C. van Vugt, M. Verbeek, E. Westerhof, F. Wieschollek, and J. Zielinski. The JOREK non-linear extended MHD code and applications to large-scale instabilities and their control in magnetically confined fusion plasmas. *Nuclear Fusion*, 61(6):065001, may 2021. doi: 10.1088/1741-4326/abf99f. URL <https://doi.org/10.1088/1741-4326/abf99f>.
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- ing of edge localized mode cycles and mitigation by resonant magnetic perturbations. *Plasma Physics and Controlled Fusion*, 57(1):014020, nov 2014. doi: 10.1088/0741-3335/57/1/014020. URL <https://doi.org/10.1088/0741-3335/57/1/014020>.
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