Michael Faux: Refereed Published Papers

• *Off-Shell supersymmetry and Filtered Clifford supermodules*
C. Doran, M. Faux, S. J. Gates, Jr., T. Hübsch, K. Iga, G. Landweber
Algebras and Representation Theory (2018) 21: 375

• *The Conformal Hyperplet*
M. Faux,
International Journal of Modern Physics A Vol. 32 (2017) 1750079

• *Codes and Supersymmetry in One Dimension*
C. F. Doran, M. G. Faux, S. J. Gates, Jr., T. Hubsch,
K. M. Iga, G. D. Landweber and R. L. Miller,
Advances in Theoretical Mathematical Physics 15 (2011) 1909-1970

• *Dimensional Enhancement via supersymmetry*
M. G. Faux, K. M. Iga, and G. D. Landweber,
Advances in Mathematical Physics 2011 259089 (2011)

• *Spin holography via dimensional enhancement*
Michael G. Faux and Gregory D. Landweber,
Physics Letters B 681 (2009) 161-165,

• *A superfield for every dash chromotopology*
C. F. Doran, M. G. Faux, S. J. Gates, T. Hubsch, K. M. Iga and G. D. Landweber,
International Journal of Modern Physics A24 (2009) 5861

• *Effective Symmetries of the Minimal Supermultiplet of $N = 8$ Extended Worldline SUSY*
M. G. Faux, S. J. Gates, and T. Hübsch,
J. Phys. A: Math. Theor. 42 (2009) 415206

• *Frames for Supersymmetry*
C. F. Doran, M. G. Faux, S. J. Gates, T. Hubsch, K. M. Iga and G. D. Landweber,
International Journal of Modern Physics A Vol. 24 Issue No. 14 (2009) 2665-2676

• *Super-Zeeman Embedding Models on N-Supersymmetric World-Lines*
C. Doran, M. Faux, S. J. Gates, T. Hubsch, K. Iga and G. Landweber,
Journal of Physics A42 (2009) 065402

• *On the matter of N = 2 matter*
C. Doran, M. Faux, S. J. Gates, Jr., T. Hübsch, K. Iga, G. Landweber,
Physics Letters B 659 (2008) 441-446

• *Adinkras and the dynamics of superspace prepotentials*
C. Doran, M. Faux, S. J. Gates, Jr., T. Hübsch, K. Iga, G. Landweber,
Advanced Studies in Theoretical Physics, Vol. 2, no. 3 (2008) 113-164

• *A counter example to a putative classiffication of one-dimensional N-extended supermultiplets*
C. Doran, M. Faux, S. J. Gates, Jr., T. Hübsch, K. Iga, G. Landweber,
Advanced Studies in Theoretical Physics, Vol. 2, no. 3 (2008) 99-111

• *On graph theoretic identifications of Adinkras, supersymmetry representations and superfields*
C. Doran, M. Faux, S. J. Gates, Jr., T. Hübsch, K. Iga, G. Landweber,
International Journal of Modern Physics A22 (2007) 869-930

• *Adinkras: A graphical technology for supersymmetric representation theory*
M. Faux and S. J. Gates, Jr.
Physical Review D71 (2005) 065002

• *A BPS interpretation of shape-invariance*
M. Faux and D. Spector
Journal of Physics A37 (2004) 10397-10407

• *Duality and central charges in supersymmetric quantum mechanics*
M. Faux and D. Spector,
Physical Review D70 (2004) 085014

• *A periodic table for supersymmetric M-theory compactifications*
C. Doran and M. Faux,
Journal of Mathematical Physics 44 (2003) 2853-2873

• *Twisted sectors and Chern-Simons terms in M-theory orbifolds*
M. Faux, D. Lüst, and B. A. Ovrut,
International Journal of Modern Physics A18 (2003) 2995-3013

• *An M-theoretic perspective on heterotic K3 orbifold compactification*
M. Faux, D. Lüst, and B. A. Ovrut,
International Journal of Modern Physics A18 (2003) 3273-3314

• *Four-dimensional super Yang-Mills theory from an M-theory orbifold*
C. Doran, M. Faux, and B. A. Ovrut,
Advances in Theoretical Mathematical Physics 6 (2002) 329-355

• *Intersecting branes in M-theory and chiral matter in four dimensions*
C. Doran and M. Faux,
Journal of High Energy Physics 0208 (2002) 24

• *Local anomaly cancellation, M-theory orbifolds, and phase-transitions*
M. Faux, D. Lüst, and B. A. Ovrut,
Nuclear Physics B589 (2000) 269-291

• *Intersecting orbifold planes and local anomaly cancellation in M-theory*
M. Faux, D. Lüst, and B. A. Ovrut,
Nuclear Physics B554 (1999) 437-483

• *Vector-tensor multiplets*
P. Claus, B. de Wit, M. Faux, B. Kleijn, R. Siebelink and P. Termonia,
Fortschritte der Physik 47 (1999) 125-132

• $N = 2$ *supergravity lagrangians with vector-tensor multiplets*
P. Claus, B. de Wit, M. Faux, B. Kleijn, R. Siebelink and P. Termonia,
Nuclear Physics B512 (1998) 148-178

• *Chern-Simons couplings and inequivalent vector-tensor multiplets*
P. Claus, B. de Wit, M. Faux, and P. Termonia,
Nuclear Physics B491 (1997) 201-220

• *The vector-tensor supermultiplet with gauged central charge*
P. Claus, B. de Wit, M. Faux, B. Kleijn, R. Siebelink, and P. Termonia,
Physics Letters B373 (1996) 81-88

• *Instanton effects in matrix models and string effective lagrangians*
R. Brustein, M. Faux, and B. A. Ovrut,
Nuclear Physics B433 (1995) 67-98

• *Effective d = 2 supersymmetric lagrangians from d = 1 supermatrix models*
R. Brustein, M. Faux, and B. A. Ovrut,
Nuclear Physics B421 (1994) 293-342

arXiv papers

• *Topology types of Adinkras and the corresponding representations of N-extended supersymmetry*
C. F. Doran, M. G. Faux, S. J. Gates, T. Hubsch, K. M. Iga and G. D. Landweber, and R. L. Miller, arXiv:0806.0050

• *Adinkras for Clifford algebras, and worldline supermultiplets*
C. F. Doran, M. G. Faux, S. J. Gates, T. Hubsch, K. M. Iga and G. D. Landweber, and R. L. Miller, arXiv:0811.3410

• *Central charges and extra dimensions in supersymmetric quantum mechanics*
M. Faux, D. Kagan, and D. Spector, arXiv:hep-th/0406152

• *Confluences of anomaly freedom requirements in M-theory*
M. Faux, arXiv:hep-th/9803252

• *New consistent limits to M-theory*
M. Faux, arXiv:hep-th/9801204

• *Nonperturbative effects and supersymmetry breaking in matrix models and in string theory*
M. Faux, UMI-95-03756-mc (1994) Ph. D. Thesis

Contributions to Books and Proceedings

• *Relating doubly-even error-correcting codes, graphs, and irreducible representations of N-extended supersymmetry*
C. Doran, M. Faux, S. J. Gates, Jr., T. Hübsch, K. Iga, G. Landweber,
New Advances in Applied and Computational Mathematics,
editors F. Liu et al., Nova Science Pub., Inc., Hauppage, 2007

• *Phase-transitions and tensor dynamics in M-theory*
M. Faux, D. Lüst, and B. A. Ovrut,
Mirror Symmetry IV: Advanced Studies in Mathematics 28 (2002) 231-254

• *The vector-tensor multiplet and heterotic dilaton couplings*
P. Claus, B. de Wit, M. Faux, R. Kleijn, R. Siebelink, and P. Termonia,
Gauge Theories, Quantum Gravity and Applied Supersymmetry II (1996) 231-238

• *A systematic analysis of nonperturbative effects in matrix models and string effective lagrangians*
R. Brustein, M. Faux, and B. A. Ovrut,
Warsaw 1994: Physics from Plank Scale to Electroweak Scale (1994) 303-318

• *Supersymmetric field theory from supermatrix models*
R. Brustein, M. Faux, and B. A. Ovrut,
Proceedings of the 4th International Conference on Mathematical Physics, String Theory, and Quantum Gravity, Rakhov, Ukraine (1994)

• *The strength of nonperturbative effects in matrix models and string effective lagrangians*
R. Brustein, M. Faux, and B. A. Ovrut,
SUSY '94 (1994) 395-402

• *Nonperturbative interactions in two-dimensional (super)string theory*
R. Brustein, M. Faux, and B. A. Ovrut
SUSY '93 (1993)

• *Nonperturbative effective lagrangians for super-matrix models*
R. Brustein, M. Faux, and B. A. Ovrut,
Marseille 1993: EPS HEP (1993) 260-264