

Alessandro Tomasiello  
**Curriculum vitæ**

**Birth:** March 6, 1974 in Torino (Italy).

**Nationality:** Italian.

**Languages:** Italian, English, French.

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**Education.**

**1997-2001** PhD in Mathematical Physics, SISSA/ISAS, Trieste. Thesis: *Holomorphicity and stability in string theory*. Advisor: Lorianò Bonora (Co–advisor: Cesare Reina.) Defense: October 18, 2001.

**1994-1997** Diploma from Scuola Normale Superiore, Pisa, grade 70/70 cum laude. Defense: September 1997.

**1992-1997** Physics Degree (Laurea), Pisa University. Grade 110/110 cum laude, Thesis: *Effective lagrangians for quantum black holes*, Advisor: Michele Maggiore. Defense: March 20, 1997.

**Research positions.**

**2001-2004** Postdoc: Ecole Polytechnique, Palaiseau and IHES, Bures-sur-Yvette, France.

**2004-2007** Postdoc: Stanford University, USA.

**2007-2010** Postdoc: Harvard University, USA.

**Miscellanea.**

- Speaker at “Strings ’05” conference, Toronto.
- Referee for JHEP, Nuclear Physics B, International Journal of Modern Physics A, Journal of Geometry and Physics.

## Publications.

- A. Tomasiello, “New string vacua from twistor spaces,” arXiv:0712.1396 [hep-th].
- N. Halmagyi and A. Tomasiello, “Generalized Kaehler Potentials from Supergravity,” arXiv: 0708.1032 [hep-th].
- A. Tomasiello, “Reformulating Supersymmetry with a Generalized Dolbeault Operator,” arXiv: 0704.2613 [hep-th].
- A. Kapustin and A. Tomasiello, “The general (2,2) gauged sigma model with three-form flux,” JHEP **0711**, 053 (2007) [arXiv:hep-th/0610210].
- M. Graña, R. Minasian, M. Petrini and A. Tomasiello, “A scan for new  $\mathcal{N} = 1$  vacua on twisted tori,” JHEP **0705**, 031 (2007) [arXiv:hep-th/0609124].
- J. P. Hsu, A. Maloney and A. Tomasiello, “Black hole attractors and pure spinors,” JHEP **0609**, 048 (2006) [arXiv:hep-th/0602142].
- W. y. Chuang, S. Kachru and A. Tomasiello, “Complex / symplectic mirrors,” Commun. Math. Phys. **274**, 775 (2007) [arXiv:hep-th/0510042].
- E. Bergshoeff, R. Kallosh, A. K. Kashani-Poor, D. Sorokin and A. Tomasiello, “An index for the Dirac operator on D3 branes with background fluxes,” JHEP **0510**, 102, 2005 [arXiv:hep-th/0507069].
- M. Graña, R. Minasian, M. Petrini and A. Tomasiello, “Generalized structures of  $\mathcal{N} = 1$  vacua,” JHEP **0511**, 020 (2005) [arXiv:hep-th/0505212].
- A. K. Kashani-Poor and A. Tomasiello, “A stringy test of flux-induced isometry gauging,” Nucl. Phys. B **728**, 135 (2005) [arXiv:hep-th/0505208].
- R. Kallosh, A. K. Kashani-Poor and A. Tomasiello, “Counting fermionic zero modes on M5 with fluxes,” JHEP **0506**, 069 (2005) [arXiv:hep-th/0503138].
- A. Tomasiello, “Topological mirror symmetry with fluxes,” JHEP **0506**, 067 (2005) [arXiv:hep-th/0502148].
- M. Grana, R. Minasian, M. Petrini and A. Tomasiello, “Type II strings and generalized Calabi-Yau manifolds,” Comptes Rendus Physique **5**, 979 (2004) [arXiv:hep-th/0409176].
- M. Grana, R. Minasian, M. Petrini and A. Tomasiello, “Supersymmetric backgrounds from generalized Calabi-Yau manifolds,” JHEP **0408**, 046 (2004) [arXiv:hep-th/0406137].
- U. Lindstrom, R. Minasian, A. Tomasiello and M. Zabzine, “Generalized complex manifolds and supersymmetry,” Commun. Math. Phys. **257**, 235 (2005) [arXiv:hep-th/0405085].
- S. Fidanza, R. Minasian and A. Tomasiello, “Mirror symmetric SU(3)-structure manifolds with NS fluxes,” Commun. Math. Phys. **254**, 401 (2005) [arXiv:hep-th/0311122].
- M. Petrini, A. Tomasiello and A. Zaffaroni, “On the geometry of matrix models for  $N = 1$ ,” JHEP **0308**, 004 (2003) [arXiv:hep-th/0304251].

- P. Kaste, R. Minasian and A. Tomasiello, “Supersymmetric M-theory compactifications with fluxes on seven-manifolds and G-structures,” *JHEP* **0307**, 004 (2003) [arXiv:hep-th/0303127].
- P. Kaste, R. Minasian, M. Petrini and A. Tomasiello, “Nontrivial RR two-form field strength and SU(3)-structure,” *Fortsch. Phys.* **51**, 764 (2003) [arXiv:hep-th/0301063].
- P. Kaste, R. Minasian, M. Petrini and A. Tomasiello, “Kaluza-Klein bundles and manifolds of exceptional holonomy,” *JHEP* **0209**, 033 (2002) [arXiv:hep-th/0206213].
- M. R. Douglas, S. Govindarajan, T. Jayaraman and A. Tomasiello, “D-branes on Calabi-Yau manifolds and superpotentials,” *Commun. Math. Phys.* **248**, 85 (2004) [arXiv:hep-th/0203173].
- A. Tomasiello, “A-infinity structure and superpotentials,” *JHEP* **0109**, 030 (2001) [arXiv:hep-th/0107195].
- R. Minasian and A. Tomasiello, “Variations on stability,” *Nucl. Phys. B* **631**, 43 (2002) [arXiv:hep-th/0104041].
- A. Tomasiello, “D-branes on Calabi-Yau manifolds and helices,” *JHEP* **0102**, 008 (2001) [arXiv:hep-th/0010217].
- L. Bonora, M. Schnabl, M. M. Sheikh-Jabbari and A. Tomasiello, “Noncommutative SO(n) and Sp(n) gauge theories,” *Nucl. Phys. B* **589**, 461 (2000) [arXiv:hep-th/0006091].
- L. Bonora, M. Schnabl and A. Tomasiello, “A note on consistent anomalies in noncommutative YM theories,” *Phys. Lett. B* **485**, 311 (2000) [arXiv:hep-th/0002210].
- A. Tomasiello, “Projective resolutions of coherent sheaves and descent relations between branes,” *Adv. Theor. Math. Phys.* **4**, 617 (2002) [arXiv:hep-th/9908009].
- D. Fabbri, P. Fre', L. Gualtieri, C. Reina, A. Tomasiello, A. Zaffaroni and A. Zampa, “3D superconformal theories from Sasakian seven-manifolds: New nontrivial evidences for AdS(4)/CFT(3),” *Nucl. Phys. B* **577**, 547 (2000) [arXiv:hep-th/9907219].
- G. Bonelli, L. Bonora, F. Nesti and A. Tomasiello, “Heterotic matrix string theory and Riemann surfaces,” *Nucl. Phys. B* **564**, 86 (2000) [arXiv:hep-th/9905092].
- G. Bonelli, L. Bonora, F. Nesti and A. Tomasiello, “Matrix string theory and its moduli space,” *Nucl. Phys. B* **554**, 103 (1999) [arXiv:hep-th/9901093].