

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n.1 posto/i di Ricercatore a tempo determinato ai sensi dell'art.24, comma 3, lettera b) della Legge 240/2010 per il settore concorsuale 01/A2- Geometria e Algebra, settore scientifico-disciplinare MAT/03 - Geometria presso il Dipartimento di Matematica Federigo Enriques, (avviso bando pubblicato sulla G.U. n. 2464/2021 del 03/06/2021) Codice concorso 4773.

Grégoire Menet

CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	MENET
NOME	GRÉGOIRE
DATA DI NASCITA	14/12/85

TITOLI**TITOLO DI STUDIO**

(indicare la Laurea conseguita inserendo titolo, Ateneo, data di conseguimento, ecc.)

PhD in Mathematics at the university of Lille in July 2014.

CONTRATTI DI RICERCA, ASSEGNI DI RICERCA O EQUIVALENTI

(per ciascun contratto stipulato, inserire università/ente, data di inizio e fine, ecc.)

- 1) Post-doc at the university of Campinas from October 2014 to July 2017
- 2) Post-doc at the university of Dijon from September 2017 to August 2018
- 3) Post-doc at the university of Grenoble from September 2018 to August 2020.

ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO

(inserire anno accademico, ateneo, corso laurea, numero ore, ecc.)

- 1) September 2009 - June 2010: oral tests in mathematics in preparatory classes for the Higher Engineer School in Paris.
- 2) November 2010: teaching assistant for Parametrized curves, a first year course given at the Higher Engineering School Telecom Lille.
- 3) December 2010: teaching assistant for Probability, a second year course given at the Higher Engineering School Telecom Lille.
- 4) January 2011 - May 2013: teaching assistant for Mathematics for Engineering Sciences, second year, option Chemistry and Physics, Lille University.

- 5) September 2011 - December 2012: teaching assistant for Calculus, a first year course given at the Higher Engineering School Polytec Lille.
- 6) January 2014 - May 2014: teaching assistant for Calculus 2, first year, option Chemistry and Physics, Lille University.
- 7) February 2015: Mini-courses on K3 surfaces at the university of Campinas.
- 8) February - April 2018: Mini-courses on K3 surfaces at the university of Dijon.
- 9) January 2018 - December 2018: teaching assistant for the Agrégation concourse (prestigious French concourse), Grenoble University.

ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

(inserire titolo congresso/convegno, data, ecc.)

- 1) April 2015: Finding a G2-instanton over twisted connected sum, during the conference "Geometry structures on manifolds" at IMECC Institute, Campinas (Brazil).
- 2) June 2015: On Beauville--Bogomolov forms on singular irreducible symplectic varieties, during the "III Workshop on Poisson Geometry and related topics" at IMECC Institute, Campinas (Brazil).
- 3) August 2015: G2-instantons over twisted connected sums II during the conference "Interactions between geometry and physics (A conference in honor of Ugo Bruzzo's 60th birthday)", Ilha Bela (Brazil).
- 4) October 2015: Integral cohomology of quotients and Beauville--Bogomolov form, during the "Japanese-European Symposium on Symplectic Varieties and Moduli Spaces", Kyoto, (Japan).
- 5) February 2016: Branes and Mirror symmetry, during the conference "Vector bundles in Algebraic Geometry 2016" at IMECC Institute, Campinas (Brazil).
- 6) August 2016: On irreducible holomorphic symplectic V-manifolds during the workshop "On explicit description of holomorphic symplectic varieties", Onuma, (Japan).
- 7) September 2016: A transversal gluing construction of SG_2 -instantons during the workshop "Gauge theory in complex SG_2 geometry" at MIT, Boston (United-States).
- 8) December 2016: On the integral cohomology of complex varieties: examples and applications, during the "second congress of young Brazilian researchers in pure and apply Mathematics", Campinas (Brazil).
- 9) September 2017: Brane et symétrie miroir pour les variétés hyperkähleriennes, during the Dijon-Basel meeting at Dijon University.
- 10) September 2017: Brane and Mirror symmetry on Hyperkähler manifolds, during the "II Japanese-European Symposium on Symplectic Varieties and Moduli Spaces", Levico Terme, Italy.
- 11) May 2018: Global Torelli theorem for irreducible symplectic orbifolds, during the "Algebraic and Kähler Geometry Workshop" at Fourier Institute.
- 12) August 2018: Betti number of irreducible symplectic fourfolds, during the "III Japanese-European Symposium on Symplectic Varieties and Moduli Spaces", Tokyo, Japan.
- 13) December 2018: Global Torelli theorem for irreducible symplectic orbifolds, during the "third congress of young Brazilian researchers in pure and apply Mathematics", Curitiba (Brazil).

- 14) May 2019: Integral cohomology of quotients via toric geometry, during the "third Symposium in geometry and differential equations", Hefei, (China).
- 15) May 2019: Integral cohomology of quotients and Beauville-Bogomolov forms, during the "Algebraic and Kähler Geometry Workshop" at the Fourier Institute.
- 16) June 2019: Integral cohomology of quotients via toric geometry, during the "IV Japanese-European Symposium on Symplectic Varieties and Moduli Spaces" at the ETH of Zurich (Switzerland).
- 17) March 2020: On irreducible symplectic orbifolds, Algebraic and Kähler Geometry Workshop at Fourier Institute (Grenoble).
- 18) September 2020: On irreducible symplectic orbifolds during the V Japanese-European Symposium on Symplectic Varieties and Moduli Spaces (online).

PRODUZIONE SCIENTIFICA

PUBBLICAZIONI SCIENTIFICHE

(per ciascuna pubblicazione indicare: nomi degli autori, titolo completo, casa editrice, data e luogo di pubblicazione, codice ISBN, ISSN, DOI o altro equivalente)

- 1) *Duality for relative Prymians associated to K3 double covers of del Pezzo surface of degree 2*
Math. Z. 277 (2014), no 3-4, 893-907, <https://doi.org/10.1007/s00209-014-1283-9>
- 2) *Beauville--Bogomolov lattices for a singular symplectic variety of dimension 4*
J. Pure Appl. Algebra 219 (2015), no. 5, 1455-1495, <https://doi.org/10.1016/j.jpaa.2014.06.012>
- 3) *Holomorphic bundles for higher dimensional gauge theory*, with M.Jardim, D.Prata et H.Sà Earp,
Bulletin of the London Mathematical Society, 49 (2017), no.1, 117-132,
<https://doi.org/10.1112/blms.12017>
- 4) *On the integral cohomology of quotients of complex manifolds*,
Journal de Mathématiques pures et appliquées, 119 (2018), no.9, 280-325,
<https://doi.org/10.1016/j.matpur.2017.11.008>
- 5) *Integral cohomology of the generalized Kummer fourfold*,
with Simon Kapfer, Algebraic Geometry, 5 (2018), no.5, 523-567, [doi:10.14231/AG-2018-014](https://doi.org/10.14231/AG-2018-014)
- 6) *Brane involutions on irreducible holomorphic symplectic manifolds*,
with Emilio Franco and Marcos Jardim, Kyoto Journal of Mathematics, 59, no.1, 195-235 (2019), [doi: 10.1215/21562261-2018-0009](https://doi.org/10.1215/21562261-2018-0009)
- 7) *Erratum to the paper: Integral cohomology of the Generalized Kummer fourfold*,
with Simon Kapfer, Algebraic Geometry 7 (4) (2020) 482-485, [doi:10.14231/AG-2020-014](https://doi.org/10.14231/AG-2020-014)
- 8) *Global Torelli theorem for irreducible symplectic orbifolds*,
J. Math. Pures Appl. (9) 137, 213-237 (2020), <https://doi.org/10.1016/j.matpur.2020.03.010>
- 9) *Betti numbers of irreducible symplectic orbifolds*,
with Lie Fu, recently published in Math. Z. <https://doi.org/10.1007/s00209-020-02682-7>
- 10) *Construction of G2-instantons via twisted connected sums*,

with Johannes Nordström and Henrique N. Sá Earp, Math. Res. Lett. 28, No. 2, 471-509 (2021),
<https://dx.doi.org/10.4310/MRL.2021.v28.n2.a6>

Data

29/06/21

Luogo

Amiens