

Curriculum Vitae di Prof. Dr. Jean Ruppenthal

Professore presso Bergische Universität Wuppertal

Esperto internazionale di analisi complessa, geometria complessa e geometria differenziale complessa.

Pubblicazioni

1. **Estimates for the d-bar-equation on canonical surfaces**
(with M. Andersson, R. Lärkäng, H. Samuelsson Kalm & E. Vulcan),
Journal of Geometric Analysis **30** (2020), 2974-3001. [\[arXiv\]](#)
2. **Dolbeault cohomology of complex nilmanifolds foliated in toroidal groups**
(with A. Fino & S. Rollenske),
The Quarterly Journal Of Mathematics **70** (2019), 1265-1279. [\[arXiv\]](#)
3. **Chern forms of singular metrics on vector bundles**
(with R. Lärkäng, H. Raufi & M. Sera),
Advances in Mathematics **326** (2018), 465-489. [\[arXiv\]](#)
4. **L^2 -Serre duality on singular complex spaces and rational singularities,**
International Mathematics Research Notices **23** (2018), 7198-7240. [\[arXiv\]](#)
5. **Koppelman formulas on affine cones over smooth projective complete intersections**
(with R. Lärkäng),
Indiana University Mathematical Journal **67** (2018), 753-780. [\[arXiv\]](#)
6. **L^2 -theory for the d-bar-operator on complex spaces with isolated singularities,**
Annales de la Faculté des Sciences de Toulouse Mathématiques **28** (2019), 225-258. [\[arXiv\]](#)
7. **Explicit Serre duality on complex spaces**
(with H. Samuelsson Kalm & E. Vulcan),
Advances in Mathematics **305** (2017), 1320-1355. [\[arXiv\]](#)
8. **Modifications of torsion-free coherent analytic sheaves**
(with M. Sera),
Annales de l'Institut Fourier **67** (2017), 237-265. [\[arXiv\]](#)
9. **Koppelman formulas on the A_{-1} -singularity**
(with R. Lärkäng),
Journal of Mathematical Analysis and Applications **437** (2016), 214-240. [\[arXiv\]](#)
10. **Parabolicity of the regular locus of complex varieties,**
Proceedings of the AMS **144** (2016), 225-233. [\[arXiv\]](#)
11. **L^2 -Riemann-Roch for singular complex curves**
(with M. Sera),
Journal of Singularities **11** (2015), 67-84. [\[arXiv\]](#)
12. **Adjunction for the Grauert-Riemenschneider canonical sheaf and extension of L^2 -cohomology classes**
(with H. Samuelsson Kalm & E. Vulcan),
Indiana University Mathematical Journal **64** (2015), 533-558. [\[arXiv\]](#)
13. **L^2 -theory for the d-bar-operator on compact complex spaces,**
Duke Mathematical Journal **163** (2014), 2887-2934. [\[arXiv\]](#)

14. **L²-properties of the d-bar and the d-bar-Neumann operator on spaces with isolated singularities**
 (with N. Ovrelid),
Mathematische Annalen **359** (2014), 803-838. [\[arXiv\]](#)
 15. **Subelliptic estimates for the dbar-problem on a singular complex space**
 (with D. Ehsani),
Journal of Geometric Analysis **24** (2014), 1844-1859. [\[arXiv\]](#)
 16. **Compactness of the d-bar-Neumann operator on singular complex spaces,**
Journal of Functional Analysis **260** (2011), 3363-3403. [\[arXiv\]](#)
 17. **Friedrichs' extension lemma with boundary values and applications in complex analysis,**
Complex Variables and Elliptic Equations **56** (2011), 423-437. [\[arXiv\]](#)
 18. **An explicit d-bar-integration formula for weighted homogeneous varieties II, forms of higher degree**
 (with E.S. Zeron),
Michigan Mathematical Journal **59** (2010), 283-295. [\[arXiv\]](#)
 19. **On Hartogs' extension theorem on (n-1)-complete spaces**
 (with M. Coltoiu)
Journal für die reine und angewandte Mathematik **637** (2009), 41-47. [\[Preprint\]](#)
 20. **The d-bar equation on homogeneous varieties with an isolated singularity,**
Mathematische Zeitschrift **263** (2009), 447-472. [\[arXiv\]](#)
 21. **The Dolbeault complex with weights according to normal crossings,**
Mathematische Zeitschrift **263** (2009), 425-445. [\[arXiv\]](#)
 22. **An explicit d-bar-integration formula for weighted homogeneous varieties**
 (with E.S. Zeron),
Michigan Mathematical Journal **58** (2009), 441-457. [\[arXiv\]](#)
 23. **About the d-bar equation at isolated singularities with regular exceptional set,**
International Journal of Mathematics **20** (2009), 459-489. [\[arXiv\]](#)
 24. **A d-bar-theoretical proof of Hartogs' extension theorem on Stein spaces with isolated singularities,**
Journal of Geometric Analysis **18** (2008), 1127-1132. [\[arXiv\]](#)
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Atti di conferenze

1. **Chern forms of singular metrics on vector bundles,**
Oberwolfach Reports **15** (2018), 2291-2293.
2. **L²-Serre duality on singular complex spaces and applications,**
Complex Analysis and Geometry, Proceedings of the KSCV10 Symposium, Springer Proceedings. [\[arXiv\]](#)
3. **L²-cohomology of isolated singularities, integral representation formulas and canonical singularities,**
Oberwolfach Reports **12** (2015), 258-260.
4. **Analytic Serre duality on singular complex spaces,**
Oberwolfach Reports **11** (2014), 2195-2198.

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5. **L^2 -cohomology of singular spaces,**
Oberwolfach Reports 8 (2011), 1102-1105.

Altre pubblicazioni e preprint

1. **A d-bar theoretical proof of Hartogs' extension theorem on (n-1)-complete spaces,**
Preprint 2008, [arXiv:0811.1963](https://arxiv.org/abs/0811.1963).

Autorizzo il trattamento dei dati personali contenuti nel presente curriculum vitae ai sensi del D.Lgs. 196/2003 “Codice in materia di protezione dei dati personali”.

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