

Prijava za nagradu UCG

David Kalaj-evi radovi za 2021.

- 6 radova u Q1
- 5 radova u Q2
- 1 rad u Q3
- Ukupno 12 radova.
- Dva uvodna predavanja
- Dvije komisije na odbrani doktorskih disertacija u inostranstvu

1. Chen, J., Kalaj, D. *Dirichlet-type energy of mappings between two concentric annuli*, Calculus of Variations and Partial Differential Equations , 2021, 60(6), 205, Q1
2. Kalaj, D. *Harmonic maps between two concentric annuli in R^3* , Advances in Calculus of Variations, 2021, 14(3), pp. 303–312, Q1
3. Chen, S., Kalaj, D. *On Asymptotically Sharp Bi-Lipschitz Inequalities of Quasiconformal Mappings Satisfying Inhomogeneous Polyharmonic Equations*, Journal of Geometric Analysis, 2021, 31(5), pp. 4865–4905, Q1
4. David Kalaj, *Harmonic quasiconformal mappings between C^1 smooth Jordan domains*, Revista Matemática Iberoamericana, DOI: 10.4171/RMI/1272 Published online first: 2021-06-15, DOI: 10.4171/RMI/1272, Q1.
5. David Kalaj, Petar Melentijević, Jian-Feng Zhu, *L^p -theory for Cauchy-transform on the unit disk*, Journal of Functional Analysis, Available online 30 November 2021, 109337, <https://doi.org/10.1016/j.jfa.2021.109337>, Q1
6. Gjokaj, A., Kalaj, D. *Quasiconformal Harmonic Mappings Between the Unit Ball and a Spatial Domain with $C^{1,\alpha}$ Boundary*. *Potential Anal* (2021). <https://doi.org/10.1007/s11118-021-09919-y>, Q1
7. Haslinger, F., Kalaj, D., Vujadinović, D. *Sharp Pointwise Estimates for Fock Spaces*, Computational Methods and Function Theory, 2021, 21(2), pp. 343–359, Q2
8. Kalaj, D. *Zero-curvature point of minimal graphs*. *Monatsh Math* (2021). <https://doi.org/10.1007/s00605-021-01640-7>, Q2
9. Long Bai & David Kalaj (2021) *Approximation of Kolmogorov–Smirnov test statistic*, Stochastics, 93:7, 993–1027, DOI: [10.1080/17442508.2020.1844705](https://doi.org/10.1080/17442508.2020.1844705), Q2

10. Kalaj, D. *Schwarz lemma for harmonic mappings into a geodesic line in a Riemann surfaces*, Kalaj, D. Complex Variables and Elliptic Equations, 2021, 66(2), pp. 275–282, Q2

11. Chen, J., & Kalaj, D. (2021). *A Schwarz lemma for hyperbolic harmonic mappings in the unit ball*. *Mathematica Scandinavica*, 127(3). <https://doi.org/10.7146/math.scand.a-128528> , Q2

12. Kalaj, D. *Gaussian curvature of minimal surface over a wedge*, Analysis and Mathematical Physics, 2021, 11(1), 37, Q3

(b) Conferencije i seminari:

13. **David Kalaj** (University of Montenegro),

Title: "*Curvature of minimal graphs*", within the weekly Geometry Seminar of the University of Granada, Zoom room (Sala EINSTEIN UGR):

<https://oficinavirtual.ugr.es/redes/SOR/SALVEUGR/accesosala.jsp?IDSALA=22982474>

14. David Kalaj, Faculty of Natural Sciences and Mathematics, University of Montenegro "Hölder continuity of qc harmonic mappings between smooth domains", ЈЕДНАЕСТИ СИМПОЗИЈУМ „МАТЕМАТИКА И ПРИМЕНЕ“ НАЦИОНАЛНИ СКУП СА МЕЂУНАРОДНИМ УЧЕШЋЕМ, Beograd 2-4.12.2021.

(a) Komisije

[1] Bio je spoljni evaluator odbrane doktorske disertacije: Oona Rainio, Geometry of intrinsic metrics, Universitet u Turku, Finksa 2. Septembar 2021

[2] Clan komisije za odbranu doktorske teze: Konrad Krystecki Componentwise finite-time ruin in two-dimensional Brownian Risk Model, [UNIL | Université de Lausanne –Oktobar 2021.](#)

Podgorica 01. 12.2021