PUBLICATIONS

ALEXANDRU BUIUM

1. RESEARCH MONOGRAPHS


2. TEXTBOOKS


3. PAPERS PUBLISHED


[76] Arithmetic analogues of some basic concepts from Riemannian geometry, Revue Roumaine de Mathematiques Pures et Appliquées, Vol. LX, 3, (2015), 257-266. (Special number dedicated to L. Badescu’s 70th birthday).

4. Papers accepted for publication

[90] (with L.E.Miller), Purely arithmetic PDEs over a $p$-adic field: $\delta$-characters and $\delta$-modular forms, 82 pages, Memoirs of the Eur.Math.Soc., accepted 2022.

5. Other publications


6. Papers submitted for publication

[93] (with L.E.Miller), A. Buium, L.E.Miller, Arithmetic differential geometry in the arithmetic PDE setting, I: connections, 40 pages, submitted in 2021 to Algebraic Geometry and Physics, volume dedicated to Yu.I Manin.
[94] (with A. Vasiu), The $\delta$-invariant theory of Hecke correspondences on $A_g$, 242 pages, submitted in 2022 to Astérisque.

7. In preparation

[95] (with L.E.Miller), Arithmetic differential geometry in the arithmetic PDE setting, II: curvature and characteristic classes, 73 pages.
[96] Arithmetic Levi-Civita connections and correspondences on $\mathbb{P}^1$, 16 pages.