Masaryková Univerzita, 31.10.2018.

To whom this may concern.

Concerning my scientific contributions to the five accompanying papers in my habilitation thesis "Odd Scalar Curvature in Batalin-Vilkovisky Geometry" I declare the following.

- Paper I: K. Bering, *A Note on Semidensities in Antisymplectic Geometry*, J. Math. Phys. **47** (2006) 123513, arXiv:hep-th/0604117.
  I contributed 100% to the paper and the main result of finding local formulas to Khudaverdian's Delta operator in arbitrary coordinates.

- Paper II: K. Bering, *Second-Class Constraints and Conversion in Anti-Poisson Geometry*, J. Math. Phys. **49** (2008) 043516, arXiv:0705.3440.
  I contributed 100% to the paper and the main result of finding local formulas to Khudaverdian's Delta operator in arbitrary coordinates in the degenerate case.

- Paper III: I.A. Batalin and K. Bering, *Odd Scalar Curvature in Field-Antifield Formalism*, J. Math. Phys. **49** (2008) 033515, arXiv:0708.0400.
  I contributed 50% to the paper and the main result of classifying the most general non-degenerate second-order Batalin-Vilkovisky Delta operator.

- Paper IV: I.A. Batalin and K. Bering, *Odd Scalar Curvature in Anti-Poisson Geometry*, Phys. Lett. **B663** (2008) 132, arXiv:0712.3699.
  I contributed 50% to the paper and the main result of extend a geometric interpretation of odd scalar curvature to the degenerate case.

- Paper V: I.A. Batalin and K. Bering, *A Comparative Study of Laplacians and Schroedinger-Lichnerowicz-Weitzenboeck Identities in Riemannian and Antisymplectic Geometry*, J. Math. Phys. **50** (2009) 073504, arXiv:0809.4269.
  I contributed 50% to the paper and the main idea of exploring similarities between Riemannian and antisymplectic geometry.

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