Recent Publications:

1-A. Maalaoui, V. Martino, T. Xu, "Singular solutions for the conformal Dirac-Einstein problem on the sphere," Nonlinearity 38 (2025), no. 1, Paper No. 015019, 22 pp.

2-A. Maalaoui, V. Martino. "Q'-curvature flow on Pseudo-Einstein CR manifolds," Annali di Matematica Pura ed Applicata (2024).

3. R.G. Bettiol, M. González, A. Maalaoui. "Multiplicity of singular solutions to the fractional Yamabe problem on spheres," J. Differential Equations 389 (2024), 285-304.

4. C. Guidi, A. Maalaoui, V. Martino. "Singular CR structures of constant Webster curvature and applications," Mathematische Nachrichten (2023), 119.

5. A. Maalaoui. "Prescribing the Q'-Curvature on Pseudo-Einstein CR 3-Manifolds," Nonlinear Differential Equations and Applications. 30 (2023), no. 2, Paper No. 30, 27 pp.

6. T. Isobe, A. Maalaoui. "Morse-Floer Theory for Super-Quadratic Dirac-Geodesics," Calculus of Variations and Partial Differential Equations 61 (2022), 204, 107 pp.

7. W. Borelli, A. Maalaoui, V. Martino. "Conformal Dirac-Einstein equations on manifolds with boundary, "Calculus of Variations and Partial Differential Equations. 62 (2023), 18, 52 pp.

8. A, Maalaoui, V. Martino. "Compactness of Dirac-Einstein Spin Manifolds and Horizontal Deformations," Journal of Geometric Analysis. 32 (2022), no. 7, Paper No. 201, 28 pp.

9. A. Maalaoui, A. Pinamonti, G. Speight. "Functional Spaces via Fractional Poisson Kernel on Carnot Groups and Applications," Journal d'Analyse Mathematique. 149(2) (2023), pp. 485-527.

10. A. Maalaoui. "The Logarithmic Hardy-Littlewood-Sobolev Inequality on 3-dimensional CR Manifolds," Publicacions Matemátiques. 67(2) (2023), pp. 515-540.

11. A. Maalaoui. "Functional Determinant on Pseudo-Einstein 3-Manifolds," Pacific Journal of Mathematics. 309 (2020), no. 2, 421-436.

12. W. Borrelli, A. Maalaoui. "Some Properties of Dirac-Einstein Bubbles," Journal of Geometric Analysis. 31 (2021), no.6, 5766-5782.

13. W. C. Guidi, A. Maalaoui, V. Martino. "Existence Results for the Conformal Dirac-Einstein System," Advanced Nonlinear Studies. 21 (2021), no. 1, 107-117.