

## Publicaciones

1. Herrón, Sigifredo y Aduén, Hugo. Libro digital: Introducción al análisis funcional. Fondo editorial Universidad de Córdoba, agosto 29 de 2025.
2. Herrón, Sigifredo; Lopera, Emer y Sánchez, Diana. Existence of three positive solutions for a p-sublinear problem involving a Schrodinger p-Laplacian type operator. *Electronic Journal of Differential Equations*, Vol. 2025 (2025), No. 47, pp. 1–13.
3. Herrón, Sigifredo; Lopera, Emer y Sánchez, Diana. Radial Solutions for Phi-Laplacian Problems via Shooting Method. Publicado en Libro *Analysis and PDE in Latin America ICMAM 2022 Conference proceedings*, Birkhäuser Cham. 2024.
4. Herrón, Sigifredo; A. Castro, J. Cossio y C. Vélez. Energy Analysis, Phase Plane, Initial Value Problems and the Existence of Infinitely Many Solutions to Superlinear Elliptic Problems. Publicado en Libro *Analysis and PDE in Latin America ICMAM 2022 Conference proceedings*, Birkhäuser Cham- 2024.
5. Herrón, Sigifredo; Lopera, Emer y Sánchez, Diana. Solutions for a problem involving a  $\phi$ -Laplacian-like operator via energy analysis, phase plane and shooting method. *Journal of Mathematical Analysis and Applications*, volume 543, 2, Part 1, 128910, 2025. <https://doi.org/10.1016/j.jmaa.2024.128910>.
6. Herrón, Sigifredo; A. Castro, J. Cossio y C. Vélez. Shooting from singularity to singularity and a quasilinear p-Laplace-Beltrami equation with indefinite weight. *Discrete and Continuous Dynamical Systems - S*, 2024, 17(5&6): 2186-2207. doi: 10.3934/dcdss.2023108.
7. Herrón, Sigifredo. Libro "Una introducción a los fundamentos del análisis". Ganador concurso de publicación Sello UN, Colección *Obra Selecta*, Techné. Febrero 2023. Editorial Universidad Nacional de Colombia.
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9. Herrón, Sigifredo; A. Castro, J. Cossio y C. Vélez. *Infinitely many radial solutions for a p-Laplacian problem with negative weight at the origin*, Special Issue 01 (2021), pp. 101-114.
10. Herrón, Sigifredo; A. Castro, J. Cossio and C. Vélez. Infinitely many radial solutions for a p-Laplacian problem with indefinite weight, *Discrete & Continuous Dynamical Systems*, 2021, 41 (10): 4805 - 4821.
11. Herrón, Sigifredo; Aduén, Hugo. Nonradial solutions of elliptic weighted superlinear problems in bounded symmetric domains. *J. Math. Anal. Appl.* Vol 492, Issue 1, December 2020, 124429.
12. Herrón, Sigifredo; A. Castro, J. Cossio, R. Pardo and C. Vélez. Infinitely many radial solutions for a sub-super critical p-Laplacian problem. *Annali di Matematica* 199, 737-766 (2020).
13. Herrón, Sigifredo; Castro, Alfonso; Cossio, Jorge; Vélez, Carlos. "Existence and multiplicity results for a semilinear elliptic problem". *J. Math. Anal. Appl.* Vol 475, No 2. (2019), 1493-1501.
14. Herrón, Sigifredo; Villamizar-Roa, Élder J. "On non-Newtonian fluids with convective effects", *Electron. J. Differential Equations*, Vol. 2017 (2017), No. 155, pp. 1-28.
15. Herrón, Sigifredo; Cossio, Jorge; Vélez, Carlos. "Existence of multiple solutions for a Quasilinear Elliptic problem". *Topological Methods in Nonlinear Analysis*, Vol 50, No 2 December 2017.

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18. Herrón, Sigifredo. Libro "Tópicos previos a la Matemática superior". Ganador concurso de publicación Sello UN, Colección Obra Selecta, Techné. Marzo 2014. Editorial Universidad Nacional de Colombia.
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