

## Singular 3-manifolds in $R^5$ : What's new?

Pedro Benedini Riul <sup>11</sup>

**Resumo:** The geometry of singular objects has fascinated mathematicians, and not without reason. One can easily find beautiful studies in the literature. The aim of this talk is to present a study about the second order geometry of singular corank 1 3-manifolds in  $R^5$ , inspired by [3] and [1]. More details can be found in [2], an article in preparation.

## Referências

- [1] P. BENEDINI RIUL, R. OSET SINHA, M. A. S. RUAS, *The geometry of corank 1 surfaces in  $R^4$* , The Quarterly Journal of Mathematics, 70 (3), p. 767–795, 2019.
- [2] P. BENEDINI RIUL, A. J. SACRAMENTO, M. A. S. RUAS, *Singular manifolds in  $R^5$* , In preparation, 2019.
- [3] L. F Martins, J. J. Nun-O Ballesteros, *Contact properties of surfaces in  $R^3$  with corank 1 surfaces* Tohoku Math. J. (2), v. 67, n. 1, p. 105–124, 2015.

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<sup>11</sup>Universidade Federal de São João del-Rei,  
benedini@ufsj.edu.br