## HOCHSHILD HOMOLOGY AND COHOMOLOGY OF SUPER JORDAN PLANE

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We compute the Hochschild homology and cohomology of the algebra  $A = \mathbb{k}\langle x, y | x^2, y^2x - xy^2 - xyx \rangle$ , known as super Jordan plane. This algebra has Gelfand-Kirillov dimension equal to 2, and it is also known as the Nichols algebra B(V(-1,2)). We also describe the algebra structure of the Hochschild cohomology.

Joint work with Andrea Solotar(Universidad de Buenos Aires, Argentina).