

# The motivic Milnor fiber of a quasi-ordinary hypersurface

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**Abstract:** Let  $f$  be a germ of complex analytic function on the complex affine space  $(\mathbf{C}^{d+1}, 0)$  such that its zero level defines an irreducible germ of quasi-ordinary hypersurface  $(S, 0)$ . We describe the motivic Milnor fibre associated to  $f$ , and other related invariants, in terms of the topological type of  $S \subset \mathbf{C}^{d+1}$ . (This is a joint work with Manuel González Villa.)