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On the Milnor fibration of the mixed functions

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ABSTRACT

Mixed functions are analytic functions in variables z_1, \dots, z_n and their conjugates $\bar{z}_1, \dots, \bar{z}_n$. We introduce the notion of Newton non-degeneracy for mixed functions and develop a basic tool for the study of mixed hypersurface singularities. We show the existence of a canonical resolution of the singularity, and the existence of the Milnor fibration under the strong non-degeneracy condition.