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Stratification of the moduli space of plane branches with a single characteristic exponent

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We study the moduli space of plane branches with a single characteristic exponent through a stratification using the semimodule of values of the Jacobian ideal of the branch. We provide an algorithmic procedure to describe the strata, their dimensions, and their adjacencies. This stratification refines a previously known one based on the Zariski invariant studied by Peraire in 1998.