

Residue-type indices for germs of holomorphic vector fields in the plane

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Let X be a germ of holomorphic vector field at $(\mathbb{C}^2, 0)$. We will discuss some indices associated to X and how they can be used in order to characterize it as vector field of *generalized curve type* — i.e. without saddle-nodes in its reduction of singularities — or, more generally, as a *second type* vector field — i.e. without saddle-nodes tangent to its reduction divisor.