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Mirel Caibar, Manuel Gonzalez Villa, Gary Kennedy* (kennedy@math.ohio-state.edu)
and **Lee McEwan**. *Motivic Milnor fibers associated to quasi-ordinary surfaces*. Preliminary
report.

In prior work, two of the authors have developed a recursion for computing the horizontal and vertical monodromies associated to a component of the singular locus of a quasi-ordinary surface. These are monodromies on the Milnor fiber obtained by taking a slice of the surface transverse to the component. We are developing a motivic version of that recursion, which should allow for practical calculation of the associated spectra (including a hypothesized vertical spectrum). (Received August 25, 2010)