

ABSTRACT. We consider a mixed Hodge module \mathcal{M} on a normal surface singularity (X, x) and a holomorphic function germ $f : (X, x) \rightarrow (\mathbf{C}, 0)$. For the case that \mathcal{M} has an abelian local monodromy group, we give a formula for the spectral pairs of f with values in \mathcal{M} . This result is applied to generalize the Sebastiani-Thom formula and to describe the behaviour of spectral pairs in series of singularities.