

Verdier, J. L.

Spécialisation de faisceaux et monodromie modérée. (French) [Zbl 0532.14008](#)
Astérisque 101-102, 332-364 (1983).

Given an analytic subspace Y of an analytic space X , this paper defines in an intrinsic way a "specialization" functor $Sp_{Y \setminus X} : D_{const}(X) \rightarrow D_{const}(C_{Y \setminus X})$ from the (derived) category of constructible sheaves on X to the (derived) category of constructible sheaves on the normal cone to Y in X ; the sheaves thus obtained are locally constant along the punctured generatrices of the normal cone, and in the special case of a divisor Y defined by a local equation f they correspond to Deligne's "sheaves of vanishing cycles" $R^i \psi_f$. - The p characteristic and the complex case are discussed separately.

For the entire collection see [[Zbl 0515.00021](#)].

Reviewer: [F.Pham](#)

MSC:

- [14F05](#) Sheaves, derived categories of sheaves, etc. (MSC2010)
- [14F40](#) de Rham cohomology and algebraic geometry
- [14F25](#) Classical real and complex (co)homology in algebraic geometry
- [32L10](#) Sheaves and cohomology of sections of holomorphic vector bundles, general results
- [32C25](#) Analytic subsets and submanifolds

Cited in **1** Review
Cited in **24** Documents

Keywords:

[monodromy](#); [perverse sheaves](#); [specialization functor on constructible sheaves](#); [sheaves of vanishing cycles](#)