

**Laurent, Yves**

**Calcul d'indices et irrégularité pour les systèmes holonomes.** (French) [Zbl 0569.58031](#)  
Systèmes différentiels et singularités, Colloq. Luminy/France 1983, Astérisque 130, 352-364 (1985).

[For the entire collection see [Zbl 0559.00004](#).]

The author gives a short account of a forthcoming paper. He states an index theorem for the formal series solutions of a holonomic differential system belonging to Gevrey classes  $\mathbb{C}[[x]]_{(r)}$ ,  $1 \leq r \leq \infty$ . This includes as special cases results previously obtained by *J. P. Ramis* [Astérisque 59/60, 173-204 (1978; [Zbl 0409.34018](#))] and by *M. Kashiwara* [Systems of microdifferential equations, Progr. Math. 34 (1983; [Zbl 0521.58057](#))]. The latter is recommended as a reference for the necessary background.

Reviewer: H.Schröder

**MSC:**

[58J20](#) Index theory and related fixed-point theorems on manifolds

Cited in **6** Documents

**Keywords:**

[index theorem](#); [holonomic differential system](#) belonging to [Gevrey classes](#)