

**Grivaux, Julien**

**Formality of derived intersections.** (English) Zbl 1327.14033

Doc. Math., J. DMV 19, 1003-1016 (2014).

Summary: We study derived intersections of smooth analytic cycles, and provide in some cases necessary and sufficient conditions for this intersection be formal. In particular, if  $X$  is a complex submanifold of a complex manifold  $Y$ , we prove that  $X$  can be quantized if and only if the derived intersection of  $X^2$  and  $\Delta_Y$  is formal in  $D^b(X^2)$ .

**MSC:**

14C17 Intersection theory, etc.  
14F05 Sheaves, derived categories of sheaves, etc.  
32C99 General theory of analytic spaces

Cited in 1 Document

**Keywords:**

intersection theory; derived categories; quantized analytic cycles

**Full Text:** [EMIS](#) [arXiv](#)