

---

**RASUL SHAFIKOV**, the University of Western Ontario

*Holomorphic closure dimension of real analytic sets*

Given a real analytic (or, more generally, semianalytic) set  $R$  in the  $n$ -dimensional complex space, there is, for every point  $p$  in the closure of  $R$ , a unique smallest complex analytic germ  $X_p$  that contains the germ  $R_p$ . We call the complex dimension of  $X_p$  the holomorphic closure dimension of  $R$  at  $p$ . We show that the holomorphic closure dimension of an irreducible  $R$  is constant on the complement of a closed proper analytic subset of  $R$ , and discuss the relationship between this dimension and the CR dimension of  $R$ .

This is joint work with J. Adamus.