1035-16-1824 **E. Zelmanov***, Department of Math, UCSD, 9500 Gilman Drive, Dept 0112, La Jolla, CA 92093. Algebras of infinite differential operators with pathological properties.

We will discuss the recently discovered class of self-similar Lie and associative algebras of finite Gelfand-Kirillov dimension. (Received September 20, 2007)