1049-46-110 **Hugo Arizmendi Peimbert\***, Instituto de Matematicas, Circuito Exterior, Ciudad Universitaria, Mexico D.F., 04510, 04510 Mexico, D.F., Mexico. On the maximal ideals of normed and m-convex algebras. Preliminary report.

A complex commutative normed unital algebra A have three good properties:

- i) The codimension of every closed maximal ideal of A is 1.
- ii) A is a  $Q_t$ -algebra (the set  $G_t(A)$  of topologically invertible elements of A is open)
- iii) A is a simplicial algebra (every closed ideal is contained in some maximal closed ideal)

Also it is easy to show that

1. All maximal ideals of A are closed if and only if A is a Q-algebra.

These properties and some others about normed and m-locally convex algebras and its maximal ideals are discussed in this talk. (Received February 26, 2009)