## MULTIPLIERS WITH CLOSED RANGE ON FRÉCHET ALGEBRAS

N. MOHAMMAD AND M. NAEEM AHMAD

Received November 16, 2012; revised February 8, 2016

ABSTRACT. In this paper, we determine several equivalent conditions pertaining to closed range multipliers defined on a semisimple Fréchet locally m-convex algebra. Moreover, we give a complete description of the point spectrum and the residual spectrum of multipliers.

Key words and phrases. Fréchet locally m-convex algebra; Fréchet locally C\*-algebra; bounded approximate identity; semisimple algebra; multiplier; socle of an algebra; point spectrum; residual spectrum.