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Claudio H Morales* (morales@math.uah.edu), Department of Mathematics, Huntsville, AL 35899. *Maximal monotone operators in Locally convex spaces*. Preliminary report.

Let X be a topological vector space, and let A from X into 2^{X^*} be a monotone operator. The main purpose of this presentation is to show various extensions of known results for Banach spaces to much general type of spaces. We shall discuss an extension the well known Minty's Lemma for general topological vector spaces under a mild type continuity assumption. This result would allow us to show that certain monotone operators are indeed single-valued. We shall also discuss results for maximal monotone operators. (Received February 03, 2015)