## **Regular Maximal Monotone Operators and the Sum Theorem**

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regular. We prove that the sum of a  ${cal C}_0$  (or  ${cal C}_1$ )-regular maximal monotone operator with a maximal monotone operator which is locally inf bounded and whose domain is closed and convex is again maximal monotone provided that they satisfy a certain "dom-dom" condition. From this result one can obtain most of the known sum theorem type results in general Banach spaces. We also prove a local boundedness type result for pairs of monotone operators.

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