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Asplund Decomposition of Monotone Operators

A somewhat overlooked 1970 paper by Edgar Asplund establishes a decomposition for a maximal monotone operator $T: X \rightarrow X^*$ on a general Banach space X . The operator T is decomposed as the pointwise sum of the (well-behaved) subdifferential mapping ∂f of a convex function f , and an 'acyclic' component A . I will reproduce a modern version of this result, and summarize current knowledge of the properties of this acyclic part.