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Aula T2 (UB).

Local completeness, Pareto efficiency and some variational principles.

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ABSTRACT:

An extension of Ekeland's variational principle to locally complete spaces is presented. From this, an Equilibrium version of the Ekeland type variational principle, a Caristi-Kirk type fixed point theorem and a Takahashi type minimization theorem are proved to be equivalent. Also, Pareto efficiency with respect to a locally nuclear cone is obtained, the restricted assumption that only some related sets are locally complete is required.