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Completeness, sections and selections

As a rule, most of the classical Michael-type selection theorems for the existence of single-valued continuous selections are analogues and, in certain respects, generalizations of ordinary extension theorems. In contrast to this, most of the selection theorems for the existence of semi-continuous set-valued selections seem to have no proper analogues in the extension theory. In this talk, we will discuss the role of the “selection” condition in such theorem, and how it is related to the metrizability of the range of the corresponding set-valued mappings.