

1096-54-507

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32816. *Cauchy Continuous Actions.*

A Cauchy monoid acting continuously on a Cauchy space is investigated. A completion theory is studied in this context. Cauchy continuous extension of the action to the completion of the underlying Cauchy space is the primary focus here. Completions of generalized quotient spaces are also considered. It is shown that the completion of the generalized quotient space coincides with the generalized quotient of the completion of the underlying Cauchy space. (Received September 05, 2013)