$\mathbb{R}$-factorizable G-spaces.

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Abstract: The concept of $\mathbb{R}$-factorizable G-space is introduced.   The quotients of $\mathbb{R}$-factorizable groups are $\mathbb{R}$-factorizable G-spaces and in this case they are characterized in the similar way as $\mathbb{R}$-factorizable groups.   Moreover, $\mathbb{R}$-factorizablility characterize those compact coset spaces which are coset spaces of ω-narrow groups.

   It is shown that the action of $\mathbb{R}$-factorizable group G on its quotient space X is extended to the action on their realcompactifications νG and νX and that νX is G_δ-closed in the completion of X with respect to the maximal equiuniformity.