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When Automorphisms are Rare

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The questions of scale type of a measurement structure are answered (partly) by investigating the automorphism group of the structure. The famous Alper/Narens Theorem characterizes automorphism groups on the reals. Recently, Suck (in press) generalized this result by developing a topological description based on the order topology of the measurement structure. This technique, as well as the ideas of the Alper/Narens Theorem, live on a rich automorphism group. What if this group is trivial, i.e., consisting only of the identity map? The present paper deals with possibilities to extend the topological approach to this situation. The tool employed is a groupoid instead of the automorphism group.

Suck, R. (in press) Scale type (N, N) and an order based topology induced on the automorphism group. *Journal of Mathematical Psychology*.