

# First Joint Meeting Brazil Italy of Mathematics Special Session: Mathematical Logic

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**Title:** Groups definable in d-minimal structures

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**Abstract:** D-minimal structures are a generalization of o-minimal ones. We study groups and rings definable in d-minimal expansions of ordered fields.

We generalize to such objects some known results from o-minimality. In particular, we can endow a definable group with a definable topology making it a topological group. Moreover, a definable ring of dimension at least 1 and without zero-divisors is a skew field.