

1. Record Nr.	UNINA9910828986903321
Autore	Hall J. I.
Titolo	Moufang loops and groups with triality are essentially the same thing / / J.I. Hall
Pubbl/distr/stampa	Providence, RI : , : American Mathematical Society, , [2019] ©2019
ISBN	1-4704-5321-5
Descrizione fisica	1 online resource (206 pages) : illustrations
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; number 1252
Classificazione	20-XX
Disciplina	512/.2
Soggetti	Moufang loops
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"July 2019, volume 260, number 1252 (third of 5 numbers)."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Category theory -- Quasigroups and loops -- Latin square designs -- Groups with triality -- The functor B -- Monics, covers, and isogeny in TriGrp -- Universals and adjoints -- Moufang loops and groups with triality are essentially the same thing -- Moufang loops and groups with triality are not exactly the same thing -- The functors S and M -- The functor G -- Multiplication groups and autotopisms -- Doro's approach -- Normal structure -- Some related categories and objects -- An introduction to concrete triality -- Orthogonal spaces and groups -- Study's and Cartan's triality -- Composition algebras -- Freudenthal's triality -- The loop of units in an octonion algebra.
Sommario/riassunto	"In 1925, Elie Cartan introduced the principal of triality specifically for the Lie groups of type D4, and in 1935 Ruth Moufang initiated the study of Moufang loops. The observation of the title was made by Stephen Doro in 1978 who was in turn motivated by work of George Glauberman from 1968. Here we make the statement precise in a categorical context. In fact the most obvious categories of Moufang loops and groups with triality are not equivalent, hence the need for the word "essentially.""