Record Nr.	UNISALENTO991002945499707536
Titolo	Berkovich spaces and applications [e-book] / Antoine Ducros, Charles Favre, Johannes Nicaise, editors
Pubbl/distr/stampa	Cham [Switzerland] : Springer, 2015
ISBN	9783319110295
Descrizione fisica	1 online resource (xix, 413 pages)
Collana	Lecture Notes in Mathematics, 1617-9692 ; 2119
Classificazione	AMS 14-06 AMS 14F20 AMS 14G22 LC QA551
Altri autori (Persone)	Ducros, Antoineauthor Favre, Charlesauthor Nicaise, Johannesauthor
Disciplina	516.35
Soggetti	Geometry, Analytic Topology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Materiale a stampa Monografia
	Monografia
Livello bibliografico	Monografia

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Bruhat-Tits buildings using Berkovich analytic geometry. The third and final part explores the relationship between non-archimedean geometry and dynamics. A contribution by M. Jonsson contains a thorough discussion of non-archimedean dynamical systems in dimension 1 and 2. Finally a survey by J.-P. Otal gives an account of Morgan-Shalen's theory of compactification of character varieties. This book will provide the reader with enough material on the basic concepts and constructions related to Berkovich spaces to move on to more advanced research articles on the subject. We also hope that the applications presented here will inspire the reader to discover new settings where these beautiful and intricate objects might arise