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Title:	Geometric Criteria for A1 - Connectedness and Applications to Norm Varieties.
Authors:	Balwe, Chetan (/jspui/browse?type=author&value=Balwe%2C+Chetan) Hogadi, Amit (/jspui/browse?type=author&value=Hogadi%2C+Amit) Sawant, Anand (/jspui/browse?type=author&value=Sawant%2C+Anand)
Keywords:	Geometric criteria Homotopies
Issue Date:	2022
Publisher:	American Mathematical Society
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Abstract:	We show that A1-connectedness of a large class of varieties over a field k can be characterized as the condition that their generic point can be connected to a k-rational point using (not necessarily naive) A 1 - homotopies. We also show that symmetric powers of A 1 - connected smooth projective varieties (over an arbitrary field) as well as smooth proper models of them (over an algebraically closed field of characteristic 0) are A 1 - connected. As an application of these results, we show that the standard norm varieties over a field k of characteristic 0 become A 1 - connected (and consequently, universally R-trivial) after base change to an algebraic closure of k.
Description:	Only IISER Mohali authors are available in the record.
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