THE FIELDS INSTITUTE

FOR RESEARCH IN MATHEMATICAL SCIENCES

ABSTRACTS 1.2

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Desingularizations and geometry of orbit closures in module varieties (25-30)

Let A be a finite dimensional algebra over an algebraically closed field. We construct desingularizations for orbit closures in associated module varieties. As a consequence we get that the orbit closures of modules over representation finite algebras are unibranch. The same result is obtained for the preprojective modules.