Immersive technology in an undergraduate mathematics course

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A team led by Bill Barton and Judy Paterson at The University of Auckland is investigating different approaches to the teaching and learning of undergraduate mathematics, in a project funded by Ako Aoteoroa called Capturing Learning in Undergraduate Mathematics. A large part of the study centres on the development of three innovative approaches, one of which is “Intensive Student Use of Technology”. This technology component of the study is being developed by Greg Oates, Louise Sheryn and Mike Thomas, in a first-year foundation course at Auckland called Functioning in Mathematics, which essentially covers basic Calculus and Linear Algebra topics at approximately the same level as senior secondary courses. This presentation will briefly outline the immersive use of technology being trialled in this project, and the nature of the research being conducted. Some preliminary results from the pilot phase of the study will also be presented.