



Year: 2006

Vol.: 69

Fasc.: 1-2

**Title:** Finitely generated Banach algebras and local Nullstellensätze

**Author(s):** Douglas Bridges, Robin Havea and Peter Schuster

The spectrum of a separable, commutative, unital Banach algebra with a finite set of topologically independent generators is characterised and shown to be firm (in Bishop's sense). This result is then used to provide local Nullstellensätze for algebras of power series and polynomials over  $\mathbb{C}$ . All results in the paper are fully constructive.

**Address:**

Douglas Bridges  
Department of Mathematics & Statistics  
University of Canterbury  
Private Bag 4800, Christchurch  
New Zealand  
*E-mail:* d.bridges@math.canterbury.ac.nz

**Address:**

Robin Havea  
Department of Mathematics and Computing Science  
University of the South Pacific  
Suva  
Fiji  
*E-mail:* havea\_r@usp.ac.fj

**Address:**

Peter Schuster  
Mathematisches Institut  
Universität München  
Theresienstr. 39  
80333 München  
Germany  
*E-mail:* peter.schuster@mathematik.uni-muenchen.de