



Joel FEINSTEIN (jff@maths.nott.ac.uk), School of Mathematical Sciences, University of Nottingham, Nottingham NG7 2RD, England, *Endomorphisms of algebras of infinitely differentiable functions on compact plane sets.*

ABSTRACT. This is joint work with Professor H. Kamowitz. This research was supported by two grants from the EPSRC: GR/M31132 and GR/R09589. For further details see <http://www.maths.nottingham.ac.uk/personal/jff/EPsrc/>.

We investigate the endomorphisms of the Dales-Davie algebras of infinitely differentiable functions on compact plane sets, especially compact intervals. We investigate which self-maps of the plane sets induce endomorphisms of the algebras, when the endomorphisms are compact and what the spectra of these endomorphisms are.