

IMIA Operator Algebra Seminar
University of Wollongong

Title: The path space of a directed graph

Speaker: Sam Webster (University of Wollongong)

Time and Date: 3:30pm, Tuesday April 19, 2011

Location: Room 1.G01

Abstract: We construct a locally compact Hausdorff topology on the path space of a directed graph E , and identify its boundary-path space ∂E as the spectrum of a commutative sub- C^* -algebra D_E of $C^*(E)$. We then show that ∂E is homeomorphic to a subset of the infinite-path space of any desingularisation F of E . Drinen and Tomforde showed that we can realise $C^*(E)$ as a full corner of $C^*(F)$, and we deduce that D_E is isomorphic to a corner of D_F . Lastly, we show that this isomorphism implements the homeomorphism between the boundary-path spaces.