Summary of Successful Discovery Early Career Researcher Award Proposals for Funding Commencing in 2015 by State and Organisation

The University of Newcastle

DE150100308 Reid, Dr Colin D

2015	$94,512.00
2016	$94,512.00
2017	$94,512.00
Total	**$283,536.00**

Primary FoR 0101 PURE MATHEMATICS

Funded Participants:

DECRA Dr Colin D Reid

Administering Organisation The University of Newcastle

Project Summary

This project aims to develop the theory of groups of symmetries that have self-similarity (part of the object has the same structure as the whole) and branching (transformations may be performed on parts of the object independently of one another while preserving the overall structure). The focus will be on a class of topological groups in which these properties frequently occur, building on methods recently developed and their actions on trees and on the Cantor set. The project aims to significantly advance the theory of locally compact groups, as well as giving insights into the phenomena of self-similarity and branching as they occur in group theory and dynamical systems.

DE150101262 Waller, Dr Amy E

2015	$119,146.00
2016	$123,764.00
2017	$116,843.00
Total	**$359,753.00**

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

Funded Participants:

DECRA Dr Amy E Waller

Administering Organisation The University of Newcastle

Project Summary

End of life care provides an ideal framework in which to explore the principle of individual autonomy and consumer decision making. Older people at a high risk of dying in 6 months will be recruited from acute care wards, and asked about preferences for involvement in end of life decision making in a standardised interview survey. Surrogate decision makers and physicians will be asked to answer the same questions from the patient's perspective (namely what they think the patient wants). Findings will suggest ways end of life care can be better tailored so that patients can participate in decisions and receive care that is consistent with their wishes.