



Professor Amnon Neeman

Derived categories and applications

Current Organisation:	The Australian National University
Administering Organisation:	The Australian National University
Primary research field:	Pure Mathematics
National Research Priority:	Frontier Technologies for Building and Transforming Australian Industries

Professor Amnon Neeman currently leads the Mathematical Sciences Institute's Algebra and Topology group at The Australian National University (ANU) and is recognised as a world leader in developing the mathematical theories of algebraic k -theory, algebraic geometry, topology and homological algebra.

Professor Neeman will investigate aspects of derived categories and their applications in a wide swath of fields. The project aims to deepen our understanding of homological algebra, a tool that has proved useful in areas ranging from physics to the coding of information for computer transmission. The project also aspires to create a thriving research presence in this modern vibrant field, inspiring more students in Australia to seek a career in mathematics and ensuring Australia has sufficient capacity to meet the mathematical challenges of the future.

Professor Neeman was awarded his PhD in Mathematics from Harvard University. He is currently a Professor of Mathematics at the ANU, an elected Fellow of the Australian Academy of Science and an editor of the *Journal of K-Theory* and *Applied Categorical Structures*. Each year Professor Neeman is an invited speaker at international conferences in Europe and Asia.

Professor Neeman has had papers published in many of the most prestigious mathematical journals including the *Annals of Mathematics*, *Inventiones Mathematicae*, the *Journal of American Mathematical Society*, and has published one major book in the *Annals of Mathematics Studies* series. In 2007, Professor Neeman was invited by the Spanish Ministry of Education to Barcelona for six months to direct a special year on homotopical methods.

Media contacts

For project information contact Australian Laureate Fellow
Professor Amnon Neeman—02 6125 0795 or 02 6257 1237

For *Australian Laureate Fellowships* scheme information contact Sheena Ireland—
0412 623 056