

# Minister's Approval for ARC Future Fellowships for Funding Commencing in 2021 Schedule

Approved Organisation, Leader of Approved Research Program  (Columns 1 and 2)	Approved Research Program  (Column 3)	Estimated and Approved Expenditure (\$)			Indicative Funding (\$)	Total (\$)
		2021-22 (Column 4)	2022-23 (Column 5)	2023-24 (Column 6)	2024-25* (Column 7)	(Column 8)
<b>New South Wales</b>						
<b>The University of New South Wales</b>						
FT210100168  Foster, Dr Caroline	<b>Time takes its toll: understanding why galaxies slow down as they get older</b>  The spin of galaxies is slowing down and nobody really knows why. This dynamical transformation is predicted by theoretical simulations, but different simulations disagree on its exact causes and their relative importance. Until recently, the data required to map the gas and stars in galaxies during the transition and identify its root causes in galaxies around 3-4 billion years ago were critically lacking. This project leverages on a new dataset designed to directly detect and address this important unknown. Expected outcomes are a reliable measurement of the dynamical evolution of galaxies, identification of its physical drivers and important new constraints for theoretical simulations of galaxy formation.  <b>National Interest Test Statement</b>  This project will address the question of "How do galaxies form and evolve across cosmic time?", recognised as one of six major outstanding astronomy questions in the Australian Astronomy Decadal Plan (2015-2025) by tackling a key science goal of a competitively allocated ~\$3.4M cash-equivalent astronomical observational campaign on the world-class European Southern Observatory. As such, it represents a direct return on Australia's 10-year, \$26.1M + \$12M/yr, limited-partnership infrastructure investment with a major international observatory. Furthermore, this project ensures key leadership in a newly formed international team of experts from three sub-fields of astronomy is retained within Australia and combines data from five major Australia-led observational campaigns, thereby creating new and building on existing international and domestic collaborations. This project will thus markedly advance Australia's international standing in the field of galaxy dynamics and evolution.	188,811.00	188,811.00	188,811.00	160,705.00	727,138.00
	<b>The University of New South Wales</b>	188,811.00	188,811.00	188,811.00	160,705.00	727,138.00
	<b>New South Wales</b>	188,811.00	188,811.00	188,811.00	160,705.00	727,138.00
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