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## Understanding galaxy transformation using spatially-resolved stellar kinematics from the MAGPI survey

*Thursday, 4 November 2021 07:40 (20 minutes)*

Spatially-resolved spectroscopy has enjoyed wide-spread use in the past decade, but there remains a divide between the detailed stellar observations obtainable at low redshift and the ionised gas typically used to map galaxies in the early universe. In this talk I will present MAGPI, the highest resolution spectroscopic survey of both gas and stars beyond  $z=0$ . The goal of MAGPI, the first Australian-led ESO large program, is to determine the morphological, dynamical and chemical drivers of the evolution of galaxies by providing critical observations to connect primarily disk systems  $\sim 2$  Gyr after Big Bang to well-studied local galaxies (e.g. SAMI/Hector). I will present an overview of the status of the MAGPI survey including the observations and early science results across the team. I will detail the first results of characterising the fields including the excellent depth and resolution for identifying our primary sources and their satellites as well as numerous Lyman alpha emitters out to  $z\sim 6$ . Our first results include a combination of gas and stellar kinematics in 5 fields of varying environmental density.

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