

Future telescopes and instruments for the study of heavy elements.

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Recent large spectroscopic surveys have yielded significant new insights on heavy elements, their distribution in the Galaxy, and their evolution over time. However, these discoveries have also raised new questions that require investigation using even larger samples of stars, more precise abundance measurements, and data on key, yet challenging-to measure, elements.

Following an overview of these findings, I will present future telescopes and instruments that have the potential to substantially advance the study of neutron capture elements. In particular, I will focus on: the Wide-field Spectroscopic Telescope, a facility under study that will be proposed as the next ESO initiative, after the completion of the ELT; HRMOS, a high resolution multi-object spectrograph that will be proposed at the upcoming ESO call for VLT instrumentation.

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