

Contributed Talk

Splinter Populations

E-ELT/MOSAIC: EXPLORING MASSIVE STAR POPULATIONS IN THE
LOCAL GROUP AND BEYOND

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MOSAIC is the multi-object spectrograph under study for the Extremely Large Telescope, the biggest eye on the sky. Currently, an international consortium led by Francois Hammer (Paris Observatory) is concluding a phase A study that should demonstrate the scientific potential and technical feasibility of the MOS that is expected to see first light in 2026. Science cases range from the most distant galaxies to resolved stellar populations in nearby galaxies. MOSAIC is expected to become a workhorse instrument for the spectroscopic follow-up of e.g. targets identified by the James Webb Space Telescope at optical to near-infrared wavelengths (380 - 1900 nm). With E-ELT/MOSAIC it will become possible to study massive stars in thousands of galaxies up to the Virgo cluster.