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Dwarf Galaxy Integral-field Survey (DGIS): Survey Overview and Insights into Their Ecosystem

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Low-mass galaxies are the building blocks of massive galaxies in the framework of hierarchical structure formation. To enable a detailed study of their galactic ecosystems by spatially resolving different galactic components, we conducted the Dwarf Galaxy Integral-field Survey (DGIS) using VLT/MUSE and ANU-2.3m/WiFeS. The sample comprises 63 dwarf galaxies at a spatial resolution of 10-100 pc. The overall scientific goals include studying baryonic cycles in dwarf galaxies, searching for off-nuclear (intermediate)-massive black holes, and quantifying the inner density profiles of dark matter. In this presentation, I will provide a brief overview of the DGIS survey and summarize several recent results, focusing on star formation activities and metallicity enrichment from individual galaxies to the full sample. These works demonstrate the survey's potential to advance our understanding of dwarf galaxy properties.

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