

# Astronomical Surveys as a Cornerstone of Modern Astronomy

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Wednesday, April 9 ♦ 4 P.M.

Room 118 Nieuwland Science Hall

Refreshments @ 3:30 in 202 NSH

Astronomers have entered into a “new era” of how we obtain our data, how we calibrate our data, and how we interact with our data, motivated by the desire to extract a better understanding of physical phenomena throughout the Universe, over space and time. Present surveys have (and are) obtaining more (and better) data than at any time in our history, a trend which will not only continue, but expand, in the next decade. I present a number of examples, drawn from work primarily in the areas of Galactic Astronomy and Nuclear Astrophysics, that set the stage for the next generation of effort. Departments such as Notre Dame can benefit from a dedicated expansion of research based on survey-related astronomy, and position themselves for future success, as the astronomical (and large portions of the physics) community quickly moves in this direction.