

*Workshop*

***Stellar End Products: The Low Mass - High Mass Connection***

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**Title:**

AGB stars as the Indicators of Star Formation History and Dust Production

**Abstract:**

We present the first reconstruction of the star formation history (SFH) for two of the most luminous M31 dwarf satellite galaxies: NGC 147 and NGC 185, using the Long Period Variable stars.

Theoretically, evolved stars, in Asymptotic Giant Branch (AGB) phase achieve their maximum luminosity in infrared wavelengths. Maximum luminosity of a star is related to its birth mass; therefore, it is possible to construct birth mass function and drive SFH.

AGB stars are also important dust factories that by SED fitting on we are able to estimate the mass loss rate and calculate total mass shed into ISM.