

Massive Stars In Starbursts Space Telescope Science Institute Symposium Series

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Massive Stars In Starbursts Space

An excess of massive stars in the local 30 Doradus starburst

12%) stars more massive than $30 M_{\odot}$ and 9:4 p4:0 4:6 (73 31 36 %) stars more mas-sive than $60 M_{\odot}$ (Fig 2 and fig S5; unless stated otherwise, uncertainties are 683% confidence intervals) The hypothesis that a Salpeter IMF can explain the large number of stars more massive than $30 M_{\odot}$ in our sample can thus be rejected with >99%

An excess of massive stars in the local 30 Doradus starburst

Starbursts are large star-formation events whose feedback affects the dynamical and chemical evolution of star-forming galaxies throughout cosmic history (1-3) They are found at low and high redshift, with the earliest starburst galaxies contributing to the reionisa-tion of the Universe (2,4) In such starbursts, massive stars ($10M$

The Massive Stellar Content in the Starburst NGC 3049: A ...

with Space Telescope Imaging Spectrograph (STIS) on board of the Hubble Space Tele-scope (HST) to investigate the possible evidence of depletion of massive stars in metal-rich starbursts NGC 3049 is a barred spiral galaxy, SB(rs)ab, in the Virgo cluster, known as ...

Radiative Feedback from Massive Stars: Ionizing Radiation ...

Radiative Feedback from Massive Stars: Ionizing Radiation and Its Fate in Starburst Galaxies by Jordan Alexandra Zastrow A dissertation submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy (Astronomy and Astrophysics) in The University of Michigan 2013
 Doctoral Committee: Associate Professor Sally Oey, Chair

Starbursts, UV and the Lyman α emission

- The peak of the massive stars continuum is located in the far UV ($\sim 1000 \text{ \AA}$) - Low mass stars are weak in the UV below 1500 \AA , so that the UV continuum detected in starbursts is originated only by the youngest, massive stars • At longer wavelengths the continuum is contributed by both young and old stars of different masses

Massive Stars In Starbursts Space Telescope Science ...

Sep 02, 2020 massive stars in starbursts space telescope science institute symposium series Posted By Seiichi Morimura Library TEXT ID 57858d94
 Online PDF Ebook Epub Library orders of magnitude from 10^6 to 10^9 yr the triggering of nuclear starbursts occurs over 10^8 to 10^9 yr when gas is
 owing to the galaxy center due to angular momentum loss thereby

Time Scales in Starbursts - Space Telescope Science Institute

a review) Such starbursts account for about a quarter of the high-mass star formation in the local universe (Heckman 1997), and they are thought to be the dominant star formation mode in the young universe The newly formed massive stars are so luminous (up to $10^6 L_{\odot}$) that they can be detected and studied individually at distances of tens of

Age-Dating of Starburst Galaxies - Space Telescope Science ...

Young, massive stars with masses above $\sim 5 M_{\odot}$ forming in starbursts provide the thermal and non-thermal luminosity responsible for the observed global galactic parameters (Heckman 1998) The tight connection of stellar and galactic properties permits the use of stars as tracers of starbursts as a whole Therefore, understanding and

The Low-Mass Stars in Starburst Clusters

galaxies to massive HII regions Unfortunately, only the closest regions provide the possibility to identify stars in the sub-solar mass range However, recent studies of starburst galaxies using the Short-Wavelength Spectrometer (SWS) onboard ESA's Infrared Space Observatory ISO (Thornley et ...

Massive Stars In Starbursts Space Telescope Science ...

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 quantified planets to cosmology essential science in the

The Analysis Of Emission Lines Space Telescope Science ...

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 d81914f8 Online PDF Ebook Epub Library baltimore maryland may 16 18 1994 to better understand stars and their evolution the space telescope
 science institute has launched an ambitious new initiative with the

The Analysis Of Emission Lines Space Telescope Science ...

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 extragalactic background michael fall space telescope science institute massive stars from pop iii the space telescope science institute helps
 humanity explore the universe with advanced space

Mapping IR Enhancements in Closely Interacting Spiral ...

in CLO pairs, with special emphasis on the role of 'overlap starbursts' Observations were made with the Infrared Space Observatory (ISO) using the CAM and SWS instruments The ISO CAM maps, tracing the MIR emission of warm dust heated by young massive stars, are compared to new ground based Ha and R-band images We identify three possible subgroups