
Contents

The Rest-Frame UV Spectrum of Elliptical Galaxies at High Redshift <i>Alvio Renzini</i>	1
Rest-Frame UV and Visible Properties of Early Type Galaxies at $1 < z < 2$. <i>Patrick McCarthy</i>	11
Effect of Reionization on High-z Stellar Populations <i>Daniel Babich</i>	19
Near UV Properties of Early-Type Galaxies at $z \sim 1$ <i>Sperello di Serego Alighieri and Alessandro Bressan</i>	25
High Redshift Simulations Using the GALEX Ultraviolet Images of Nearby Galaxies <i>Bum-Suk Yeom, Young Kwang Kim, Soo-Chang Rey, Young Hoon Joe and Armando Gil de Paz</i>	31
GALEX Studies of Early-type Galaxies: the UV Rising Flux and Residual Star Formation <i>Michael Rich</i>	35
UV Excess and AGB Evolution in Elliptical-Galaxy Stellar Populations <i>Rosa A. González-Lópezlira and Alberto Buzzoni</i>	51
Binary Stars as the Source of the Far-UV Excess in Elliptical Galaxies <i>Zhanwen Han, Philipp Podsiadlowski and Anthony E. Lynas-Gray</i>	59

Stellar Populations in Field Early-Type Galaxies <i>F. Annibali, A. Bressan, R. Rampazzo, P. Panuzzo W. Zeilinger and L. Danese</i>	67
GALEX UV Observations of Elliptical Galaxies in Abell Clusters at $z < 0.2$ <i>Chang H. Ree, Young-Wook Lee, Sukyoung Yi, Suk-Jin Yoon and the GALEX Science Team</i>	75
Near-UV Merger Signatures in Early-Type Galaxies <i>Jodie R. Martin, Robert W. O’Connell and John E. Hibbard</i>	83
The Chemical Composition of Elliptical Galaxies Through Mid-UV Indices <i>G. Ramos-Larios, M. Chávez, J. Morales-Hernández, F. Huerta-Villapando, L. Sierra, H. de la Rosa, A. Pérez-Grana, E. Bertone and L. H. Rodríguez-Merino</i>	89
Colours of the Envelopes of cD Galaxies <i>S. N. Kemp, V. Guzmán Jiménez, P. Ramírez Beraud, J. A. Pérez Grana, V. H. Ramírez Siordia, and F. J. Hernández Ibarra</i>	93
A Morphological Study of M81: Comparison Between GALEX and Spitzer Imaging <i>I. Puerari, R. A. González-Lópezlira and M. Valdez-Gutiérrez</i>	99
The Impact of Encounters on the Members of Local Group Analogues. A View from GALEX <i>Lucio M. Buson, Daniela Bettoni, Luciana Bianchi, Alberto Buzzoni, Antonietta Marino and Roberto Rampazzo</i>	105
GALEX UV Spectroscopy of Extended Objects: The Case of NGC 3079 <i>Daniel Rosa González, Veronique Buat, Denis Burgarella, Samuel Boissier, Alessandro Boselli and Armando Gil de Paz</i>	109
An Atlas of GALEX UV Spectra Selected from the CDFS <i>Martha Bello-Ramírez and Daniel Rosa-González</i>	113
Weak X-ray Galaxies in the Chandra Deep Field South: Searching for an Early Stage of Star Formation <i>Jesús López-Hernández, Daniel Rosa-González, Elena Terlevich and Roberto Terlevich</i>	117
UV Observations of Galactic Globular Clusters <i>Francesco R. Ferraro and Barbara Lanzoni</i>	121

Globular Clusters with the Extended Horizontal-Branch as Remaining Cores of Galaxy Building Blocks <i>Young-Wook Lee, Hansung B. Gim and Chul Chung</i>	129
The Blue Straggler Star Radial Distribution: Clues on Formation Mechanisms <i>Barbara Lanzoni</i>	135
Infant Mortality of Star Clusters: on the Origin of the Diffuse UV Emission <i>Anne Pellerin, Martin J. Meyer, Jason Harris and Daniela Calzetti</i>	141
Are the Compact Star Clusters in M82 Evolving Towards Globular Clusters? <i>Y. D. Mayya, D. Rosa-González, L. H. Rodríguez-Merino, L. Carrasco, R. Romano and A. Luna</i>	147
NGC 4214: Cluster Properties Derived from Multi-band Photometry <i>Leonardo Úbeda, Jesús Maíz-Apellániz, and John W. MacKenty</i>	157
UV Spectroscopic Indices of Galactic Globular Clusters <i>Javier Morales-Hernández, Miguel Chávez, Emanuele Bertone, Alberto Buzzoni and Alessandro Bressan</i>	163
The Extended Emission of Ultracompact HII Regions: An Overview and New Observations <i>Eduardo de la Fuente, Stanley E. Kurtz, M. S. N. Kumar, José Franco, Alicia Porras, Simon N. Kemp and Alfredo Franco-Balderas</i>	167
Horizontal Branch Stars and the Ultraviolet Universe <i>M. Catelan</i>	175
Subdwarf B and O Stars: Which Evolutionary Pathways? <i>R. Napiwotzki</i>	191
Computing Solar Absolute Fluxes <i>Carlos Allende Prieto</i>	199
Recent Progress in Modeling Stellar Atmospheres <i>Ioan Hubeny and Thierry Lanz</i>	211
Ultraviolet Stellar and Cluster Spectra Compared to Theoretical Templates <i>Ruth C. Peterson</i>	223
A Novel Precise Method for Correcting the Temperature in Stellar Atmosphere Models <i>Octavio Cardona, Lucio Crivellari and Eduardo Simonneau</i>	231

New Model Atmospheres: Testing the Solar Spectrum in the UV <i>Lino H. Rodríguez-Merino, Octavio Cardona, Emanuele Bertone, Miguel Chávez and Alberto Buzzoni</i>	239
Photoionization, Recombination, and Radiative Transitions of Atoms and Ions <i>Sultana N. Nahar</i>	245
Recombination rates, Resonance Strengths and Line Profiles of Dielectronic Satellite Lines of He-like Ca, Fe, Ni <i>Sultana N. Nahar, Justin Oelgoetz and Anil K. Pradhan</i>	259
Population Synthesis at Short Wavelengths and Spectrophotometric Diagnostic Tools for Galaxy Evolution <i>Alberto Buzzoni, Emanuele Bertone, Miguel Chávez and Lino H. Rodríguez-Merino</i>	263
Constraining Galaxy Evolution With Hubble’s Next Generation Spectral Library <i>Sally Heap and Don J. Lindler</i>	273
Spectral Evolution and Line Strength Indices in the UV <i>Gustavo Bruzual A.</i>	283
Synthesis Models in a Probabilistic Framework: Metrics of Fitting <i>Miguel Cerviño and Valentina Luridiana</i>	293
World Space Observatory-Ultraviolet: International Space Mission for the Nearest Future <i>Mikhail Sachkov, Ana I. Gómez de Castro, Isabella Pagano, Francisco Torres, Yuri Zaiko and Boris Shustov</i>	301
The Focal-plane Instruments on Board WSO-UV <i>Isabella Pagano, Mikhail Sachkov, Ana I. Gómez de Castro, Maohai Huang, Norbert Kappelmann, Salvatore Scuderi, Boris Shustov, Klaus Werner, and Gang Zhao</i>	309
Science with the World Space Observatory - Ultraviolet <i>Ana I. Gómez de Castro, Isabella Pagano, Mikhail Sachkov, Alain Lecavelier des Étangs, Giampaolo Piotto, Rosa González, and Boris Shustov</i>	319
Introducing UVIT <i>Leonardo Úbeda, Carmelle Robert, Laurent Drissen, and the UVIT Canadian Science Team.</i>	329

Efficiency of Selected UV Space Based Spectrometers

*Valentina Klochkova, Vladimir Panchuk, Mikhail Sachkov,
and Maxim Yushkin* 337

Astronomy at the University of Guadalajara

Miguel Chávez and Gerardo Ramos-Larios 341