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Nota di contenuto	Intro -- Supervisor's Foreword -- Acknowledgments -- Parts of This Thesis Have Been Published in the Following Journal Articles -- Contents -- 1 Introduction and Summary -- 1.1 Landscape Overview -- The GRB View -- The Ic-BL SN View -- Radio Unification Efforts -- 1.2 Summary of Thesis -- References -- Part I Afterglows at Cosmological Distances -- 2 ZTF20aajnksq (AT2020blt): A Fast Optical Transient at z 2.9 With No Detected Gamma-Ray Burst Counterpart -- 2.1 Introduction -- 2.2 Observations -- ZTF Discovery -- Follow-up Observations -- Optical Imaging -- Optical Spectroscopy -- X-Ray Observations -- Radio Observations -- Search for Associated GRB -- 2.3 Comparison to GRB Afterglows -- Optical Light Curve -- Spectral Energy Distribution -- Radio Light Curve -- 2.4 Interpretation -- A Slightly Off-Axis GRB -- A Dirty Fireball -- 2.5 Summary and Conclusions -- References -- 3 iPTF Archival Search for Fast Optical Transients -- 3.1 Introduction -- 3.2 Data and Candidate Selection -- 3.3 Properties of the iPTF M-dwarf Flares -- 3.4 Rate of Relativistic Fast Optical Transients in iPTF -- 3.5 Conclusions -- 3.6 Appendix -- References -- Part II Low-Luminosity Gamma-Ray Bursts -- 4 SN2020bvc: A Broad-Lined Type Ic Supernova with a Double-Peaked Optical Light Curve and a Luminous X-ray and Radio Counterpart -- 4.1 Introduction -- 4.2 Observations -- ZTF Detection and

Classification -- Host Galaxy -- Optical Photometry -- Spectroscopy -- UV and X-Ray Observations -- Submillimeter and Radio Observations -- Search for a Gamma-Ray Burst -- 4.3 Light Curve Analysis -- Comparisons to Other Ic-BL SNe -- Blackbody Fits -- 4.4 Spectroscopic Properties -- Spectroscopic Evolution and Comparisons -- Velocity Estimates from Fe II Features -- 4.5 Modeling the Light Curve -- Nickel Decay -- Shock-Cooling -- 4.6 Modeling the Fast Ejecta -- Radio Emission.

X-Ray Emission -- 4.7 Early ZTF Light Curves of Nearby Ic-BL SNe -- 4.8 Summary and Discussion -- 4.9 Appendix -- Photometry Table -- Details: Mass and Radius of the Extended Material -- Details: Properties of the Forward Shock -- Inverse Compton Scattering -- References -- Part III Ic-BL Supernovae -- Reference -- 5 The Broad-Lined Ic Supernova ZTF18aaqjovh (SN2018bvw): An Optically Discovered Engine-Driven Supernova Candidate with Luminous Radio Emission -- 5.1 Introduction -- 5.2 Observations -- Zwicky Transient Facility Discovery -- Spectral Classification -- Radio Observations -- X-Ray Observations -- Search for Gamma-Rays -- 5.3 Analysis and Discussion -- Modeling the Optical Light Curve -- Properties of the Fastest (Radio-Emitting) Ejecta -- Modeling the Radio to X-Ray SED -- Gamma-Ray Burst -- 5.4 Summary and Conclusions -- References -- 6 Evidence for Late-Stage Eruptive Mass Loss in the Progenitor to SN2018gep, a Broad-Lined Ic Supernova: Pre-explosion Emission and a Rapidly Rising Luminous Transient -- 6.1 Introduction -- 6.2 Observations -- Zwicky Transient Facility Discovery -- Photometry -- Spectroscopy -- Search for Pre-discovery Emission -- Radio Follow-up -- X-ray Follow-Up -- Search for Prompt Gamma-Ray Emission -- Host Galaxy Data -- 6.3 Basic Properties of the Explosion and Its Host Galaxy -- Physical Evolution from Blackbody Fits -- Spectral Evolution and Velocity Measurements -- Comparisons to Early Spectra in the Literature -- Origin of the ``W'' Feature -- Photospheric Velocity from Ic-BL Spectra -- Properties of the Host Galaxy -- 6.4 Interpretation -- Radioactive Decay -- Interaction with Extended Material -- 6.5 Comparison to Unclassified Rapidly Evolving Transients at High Redshift -- 6.6 Summary and Future Work -- 6.7 Appendix -- UV and Optical Photometry -- UV and Optical Spectroscopy -- Atomic Data for Spectral Modeling.

Data for Measuring Host Properties -- References -- Part IV A New Class of Energetic Stellar Explosions in a Dense Medium -- 7 AT2018cow: A Luminous Millimeter Transient -- 7.1 Introduction -- The Transient Millimeter Sky -- AT2018cow -- 7.2 Observations -- Radio and Submillimeter Observations -- The Submillimeter Array (SMA) -- The Australia Telescope Compact Array (ATCA) -- The Atacama Large Millimeter/Submillimeter Array (ALMA) -- X-Ray Observations -- Swift/XRT -- NuSTAR -- 7.3 Basic Properties of the Shock -- Light Curve -- Modeling the Radio to Submillimeter SED -- 7.4 Implications of Shock Properties -- AT2018cow in Velocity-Energy Space and a Discussion of Epsilons -- A Luminous Millimeter Transient in a Dense Environment -- Novel Features of the Synchrotron Model Parameters -- 7.5 Origin of the X-ray Emission and Emergence of a Compact Source -- 7.6 Conclusions and Outlook -- 7.7 Appendix -- ALMA Band 9 Calibration -- Full SMA Light Curves -- Selection of Peak Frequency and Peak Luminosity for Other Transients -- References -- 8 The Koala: A Fast Blue Optical Transient with Luminous Radio Emission from a Starburst Dwarf Galaxy at $z=0.27$ -- 8.1 Introduction -- 8.2 Discovery and Basic Analysis -- Optical -- Photometry -- Spectroscopy and Host-Galaxy Properties -- Radio Observations -- 8.3 Comparison with Extragalactic Explosions -- Optical Light Curve and Spectrum --

Radio Light Curve -- A Starburst Host Galaxy -- 8.4 Interpretation --
Modeling the Optical Light Curve -- Modeling the Radio Light Curve --
Progenitor Systems and a Search for an Associated Gamma-ray Burst --
8.5 Rate Estimate -- 8.6 Prospects for Detecting X-Ray Emission -- 8.7
Summary and Conclusions -- 8.8 Appendix -- Light Curve
Measurements -- References -- 9 Other Contributions -- 9.1
ZTF19abvizsw: A Cosmological Afterglow with No Detected Gamma-
Ray Burst.
9.2 How Much CSM Is Sufficient to Choke a Jet? -- 9.3 Radio
Observations of Ic-BL SNe Discovered by ZTF -- References -- 10
Summary and the Future.
