

Appendix I. Observing Programs 2008B and 2009A

**GN Scientific Ranking 2008B Band 1**

Ref #	PI	Partner	Title	Instrument	Hours*
GN-2008B-Q-1	Bally	US	AO Imaging of the Explosive Orion OMC1 Outflow	NIRI+Altair LGS	20
GN-2008B-Q-2	Bary	US	A Variability Study of the 10 um Silicate Feature in Actively Accreting T Tauri Systems	Michelle	7.5
GN-2008B-Q-3	Berger	US	Nebular-phase Spectroscopy of the Extraordinary SN2008D: The First Supernova Observed from Start to Finish	GMOS	3
GN-2008B-Q-4	Bersier	UK	The Supernovae of Gamma-Ray Bursts: Exploring the diversity of stellar explosions	GMOS	6
GN-2008B-Q-5	Bildfell	CA	BCG Dynamics and Cluster Centres: Understanding a Symbiotic Relationship	GMOS	7.3
GN-2008B-Q-6	Bloom	AU/CA/ UK/US	Concerted Follow-up of Swift and GLAST GRBs (Gemini North)	GMOS/NIRI	29.9
GN-2008B-Q-7	Chambers	UH	Quasar Candidates from PS1 at redshifts $z \sim 7$	GMOS	10
GN-2008B-Q-8	Chun	UH	Integral Field Spectroscopy of DLA absorbers	NIFS+Altair LGS	5
GN-2008B-Q-9	Cote	CA	Canadian Gemini GMOS Imaging Contest for IYA 2009	GMOS	1
GN-2008B-Q-10	Crockett	UK/US	Identifying progenitors of core-collapse supernovae	NIRI+Altair/ NIRI+Altair LGS	5.5
GN-2008B-Q-11	Crowther	UK	GMOS spectroscopy of Wolf-Rayet candidates in M74: Progenitors of Type Ib/c SN?	GMOS	8.5
GN-2008B-Q-12	Cybulski	US	Spectroscopy of a Candidate T Dwarf from Spitzer	NIRI	2.5
GN-2008B-Q-13	Duchene	US	The spectral properties of metal-rich T dwarfs	NIRI	6.5
GN-2008B-Q-14	Faifer	AR	The halo-globular cluster connection in the elliptical galaxies NGC 7626 and NGC 7619	GMOS	10.4
GN-2008B-Q-15	Fassnacht	US	Evidence for luminous CDM substructure in a moderate-redshift lensing galaxy	GMOS	3
GN-2008B-Q-16	Gladman	CA	Orbit determination for Kuiper Belt Binary b7Qa4	GMOS	1.3
GN-2008B-Q-17	Kong	US	X-ray Localization of the Globular Cluster G1 in M31	GMOS	0.5
GN-2008B-Q-18	Kotak	UK	Near-infrared observations of a highly unusual supernova	NIRI+Altair LGS	9
GN-2008B-Q-19	Levesque	UH	The Environments of Long-Duration GRBs: Determination of Stellar Masses	NIRI	3
GN-2008B-Q-20	Lucas	UK	Precise ages and masses of free floating planetary mass brown dwarfs	NIFS/NIFS+ AltairLGS	20
GN-2008B-Q-21	Luhman	US	Spectroscopy of Candidate Brown Dwarfs with Disks	GMOS/NIRI	7.1
GN-2008B-Q-22	Mackey	AU/CA/ UK	Probing the Nature of Extended Star Clusters	GMOS	23.7

\* Hours allocated.

GN-2008B-Q-23	Matheson	US	Constraining the Hubble Constant with a Type II Supernova	GMOS	12
GN-2008B-Q-24	McConnachie	AU/CA	The dynamics of the Andromeda sub-group: spectroscopy of six new dwarf galaxies around M31	GMOS	24
GN-2008B-Q-25	Meech	UH	The Main Belt Comet Mission	GMOS	3
GN-2008B-Q-26	Merritt	US	Kinematical Signatures of Recoiled Black Holes	NIFS+Altair LGS	2.5
GN-2008B-Q-27	Olsen	US	What is the Origin of M31's 10 kpc Ring?	NIRI+Altair	13.4
GN-2008B-Q-28	Peterson	CA/US	The High Mass End of the Black Hole Mass - Stellar Velocity Dispersion Relation in AGNs: Calibrating the Quasar Mass Scale	NIFS+Altair LGS	6
GN-2008B-Q-29	Pinfield	AU/GS/ UK	Confirming the first Y dwarfs from UKIDSS	NIRI	39.9
GN-2008B-Q-30	Riffel	BR	Feeding vs. feedback in nearby active galaxies	NIFS+Altair LGS	5.5
GN-2008B-Q-31	Roe	US	Titan's methane weather: Seasonal change and surface geology	NIFS+Altair/ NIRI+Altair	10
GN-2008B-Q-32	Ryder	AU	Altair Study of Supernovae in Luminous Infrared Galaxies	NIRI/NIRI+ AltairLGS	5.5
GN-2008B-Q-33	Sand	US	Optical Spectroscopy of Hostless Supernovae Candidates	GMOS	5
GN-2008B-Q-34	Sheppard	US	The First Known Binary Neptune Trojan	GMOS	3
GN-2008B-Q-35	Soderberg	US	Revealing the Progenitors of Type Ibc Supernovae through Near-IR Spectroscopy	NIRI	6.7
GN-2008B-Q-36	Soderberg	US	The Many Facets of Type Ibc Supernovae	GMOS	4
GN-2008B-Q-37	Stockton	UH	Spectral-Energy Distributions of High-Redshift Galaxies	NIRI	6
GN-2008B-Q-38	Tonry	UH	Characterization of Pan-STARRS Transients	GMOS	20
GN-2008B-Q-39	Torres	UK/US	The primary role of the SW Sextantis stars in the evolution of cataclysmic variables	GMOS	6.4
GN-2008B-Q-40	Trujillo	GS/US	Primordial Solar System Ices	NIRI	16.5
GN-2008B-Q-41	Warren	UK	The highest redshift quasars $5.8 < z < 7.2$ in the UKIDSS LAS	GMOS/NIRI	5.2
GN-2008B-Q-42	Willott	CA	$z=6$ quasars to probe the reionization of the universe	GMOS	10.7
GN-2008B-Q-43	Willott	CA	Near-infrared spectroscopy of CFHQS $z > 6$ quasars	NIRI	15

### GN Scientific Ranking 2008B Band 2

Ref #	PI	Partner	Title	Instrument	Hours
GN-2008B-Q-44	Barlow	UK	Optical and mid-IR observations of two dust-emitting SNe in the supernova factory NGC 6946	GMOS / Michelle	11.9
GN-2008B-Q-45	Brotherton	BR	Spatially Resolved Optical Spectroscopy of a Nearby Post-Starburst Quasar	GMOS	4.8
GN-2008B-Q-46	Burleigh	UK	Direct imaging of candidate planetary-mass companions to white dwarfs	NIRI	7.9
GN-2008B-Q-47	Chrysostomou	UK	Testing the theory of magneto-centrifugal ejection from T Tauri disks	NIFS+Altair	5.8

GN-2008B-Q-48	Cushing	UH	Precision Tests of Ultracool Dwarf Atmospheric Models	NIRI	11
GN-2008B-Q-49	Fadely	US	A Gemini Search for Dark Matter Substructure	NIRI	10.7
GN-2008B-Q-50	Farage	AU	Physical Mechanisms of AGN Feedback in X-ray Clusters	GMOS	4.5
GN-2008B-Q-51	Fitzsimmons	UK	Adaptive optics studies of binary Near-Earth Asteroids	NIRI+Altair	4
GN-2008B-Q-52	Foley	US	Optical Identification of Radio Transients Discovered by the Allen Telescope Array	GMOS/NIRI	11.8
GN-2008B-Q-53	Geballe	GS	The Spatial Behavior of the Unidentified Infrared Bands in Planetary Nebulae	Michelle/ NIRI	15
GN-2008B-Q-54	Gil-Hutton	AR	The size distribution of small Trans-Neptunian objects	GMOS	6.7
GN-2008B-Q-55	Gomez	AR	Astrochemistry of young protoplanetary disks	NIRI	3.9
GN-2008B-Q-56	GOTO	UH	A search for high redshift QSOs at $7.8 < z$	GMOS/NIRI	20
GN-2008B-Q-57	Henry	US	Completing the nIR Empirical Mass-Luminosity Relationships for the Lowest-Mass Stars	NIRI+Altair	3
GN-2008B-Q-58	Hunter	UK	Late-time follow-up observations of a rare nearby supernova: 07gr.	GMOS/NIRI	7.3
GN-2008B-Q-59	Janson	CA	Direct imaging survey for planet and brown dwarf companions to the most nearby massive stars.	NIRI+Altair	30
GN-2008B-Q-60	Jedicke	UH	PS1 solar system follow-up science	GMOS/NIRI	10
GN-2008B-Q-61	Kanekar	US	Measuring Star Formation Rates in Damped Lyman-alpha Systems	NIFS+Altair/ NIFS+Altair LGS	11.4
GN-2008B-Q-62	Krajnovic	GS/UK	Determining the unbiased low-mass end of the local $M_b$ - $\sigma$ relation	NIFS+Altair LGS	14
GN-2008B-Q-63	Luhman	US	Searching for the Bottom of the Initial Mass Function	NIRI	16
GN-2008B-Q-64	Marois	CA/UK/ US	Direct Exoplanet Search Around Young & Nearby Early-Type Stars; Completing the First Epoch Observations of the International Deep Planet Survey (IDPS)	NIRI+Altair	30.5
GN-2008B-Q-65	Mason	GS	A NIRI search for the molecular gas in the dusty "molecular" torus	NIRI	8
GN-2008B-Q-66	Matheson	US	Extending the ESSENCE Survey: Host Galaxies of High-Redshift Supernovae	GMOS	17.5
GN-2008B-Q-67	Maund	US	Stellar Forensics: A post-explosion view of the progenitor of a Type IIP supernova	GMOS	4.2
GN-2008B-Q-68	McConnachie	AU/US	The destructive path of NGC205	GMOS	8
GN-2008B-Q-69	Reipurth	UH	Visual Binaries in the Orion Nebula Cluster	NIFS+Altair/ NIRI+Altair	11
GN-2008B-Q-70	Rest	CA/US	Echoes of Historic Supernovae: Spectroscopy of the Tycho, Cas A, 3C 58, and Crab SNe at maximum light	GMOS	20
GN-2008B-Q-71	Schiavon	GS	Improved Ages and Detailed Abundance Patterns of Cluster Galaxies at $z \sim 0.3$	GMOS	21
GN-2008B-Q-72	Schimminovich	AU/US	Probing Small-scale Kinematic Structure of Local Lyman Break Galaxy Analogs	NIFS+Altair LGS	17.6
GN-2008B-Q-73	Scholz	UK	A close-up view on the youngest brown dwarf	Michelle/ NIRI	4.6

GN-2008B-Q-74	Seth	GS/US	Surveying Nearby Nuclear Star Clusters	NIFS+Altair LGS	14.6
GN-2008B-Q-75	Shemmer	US	Black-hole Mass and Growth Rate at High Redshift	NIRI	25
GN-2008B-Q-76	Steele	UK	White dwarfs with unresolved substellar companions or debris disks in UKIDSS	NIRI	18.1
GN-2008B-Q-77	Wright	UK	Low accretion mode or dusty star formation? AGN with starburst/Seyfert composite spectra	NIFS+Altair LGS	14
GN-2008B-Q-78	Yee	CA	Constraining the Redshifts and Stellar Masses for Two Luminous z'-dropout Candidates	NIRI	9.3

### GN Scientific Ranking 2008B Band 3

Ref #	PI	Partner	Title	Instrument	Hours
GN-2008B-Q-79	Allam	US	SDSS Giant Arcs	GMOS	24.9
GN-2008B-Q-80	Artigau	CA/GS	Spectroscopic follow-up of high proper motion brown dwarf candidates	NIRI	21
GN-2008B-Q-81	Aspin	UH	V1647~Ori, three years into quiescence	GMOS/ Michelle/ NIRI	7.2
GN-2008B-Q-82	Bandara	CA	Integral field spectroscopy of gravitationally lensed galaxies with laser guided adaptive optics	NIFS+Altair	10.6
GN-2008B-Q-83	Beck	US	Spatially Resolving Molecular Hydrogen Emission in Planet-forming Disks	NIFS+Altair	17
GN-2008B-Q-84	Chambers	UH	Quasar Candidates from PS1 at redshifts $z \sim 7$	GMOS	10
GN-2008B-Q-85	Ciardullo	US	Planetary Nebulae and Chemical Evolution: Exploring Systematic Errors for Early Stellar Populations	GMOS	33
GN-2008B-Q-86	Croll	CA	Imaging Long-Period RV Companions to Exoplanet Host Stars	NIRI+Altair	8.2
GN-2008B-Q-87	Croll	CA	Searching for Atmospheric Absorption in the Transmission Spectra of hot Jupiters	GMOS	8.5
GN-2008B-Q-88	Dall	GS/US	VSOP: Fixing the variable sky with one-shot typing of neglected variables	GMOS	56.9
GN-2008B-Q-89	Davidge	CA	The Archeology of the Outer Disk of M82	NIRI	11
GN-2008B-Q-90	Dobbie	AU	Methane and optical imaging of a Y dwarf candidate in the UKIDSS Deep Extragalactic Survey	GMOS/NIRI	1.6
GN-2008B-Q-91	Fesen	US	High Dispersion Late-time Spectra of Core-Collapse SNe	GMOS	3
GN-2008B-Q-92	Figueredo	UK	NIFS K-band spectroscopic parallax of the HII region W3	NIFS/ NIFS+Altair	7.5
GN-2008B-Q-93	Fritz	GS	Kinematics and stellar populations of the most massive galaxies	GMOS	16.5
GN-2008B-Q-94	Garnavich	UK/US	Social Insecurity: What Influences Stellar Death in Old Populations	GMOS	40
GN-2008B-Q-95	Gies	US	Binaries among the Most Massive Stars	NIRI+Altair	21
GN-2008B-Q-96	Gil-Hutton	AR	Searching for cometary activity in Centaurs with Gemini North	GMOS	3.5

GN-2008B-Q-97	Gomez	GS	What physical mechanism bends the jets in Abell 562?	GMOS	5.8
GN-2008B-Q-98	Goncalves	BR	The nearby dwarf spheroidal NGC185 chemistry: PNe versus its Seyfert 2 classification	GMOS	2.8
GN-2008B-Q-99	Graham	US	Metallicity of a Dark Burst in a Very Bright Host	GMOS	6.6
GN-2008B-Q-100	Granada	AR	The Innermost Circumstellar Regions of Be Stars: Structure and Physical Properties	NIRI	2.5
GN-2008B-Q-101	Hodapp	UH	NIRI and Michelle photometry of Sigma Ori IRS	Michelle/ NIRI+Altair	2
GN-2008B-Q-102	Homan	UK	Revealing the nature of X-ray binary jets with Michelle and NIRI	Michelle / NIRI	13.7
GN-2008B-Q-103	Jarvis	UK	The Fundamental Plane and Black-hole masses of z~0.5 radio galaxies	GMOS	26.3
GN-2008B-Q-104	Johnstone	UK	The deepest spectra of an extended filament in NGC1275	GMOS	13.3
GN-2008B-Q-105	Kassis	US	Early evolution of photoevaporating protoplanetary disks: mid-infrared spectra of the Orion Nebula proplyds	Michelle	11.5
GN-2008B-Q-106	Keane	UH	Characterizing the formation pathways for first generation ices in LDN 673	NIRI	10
GN-2008B-Q-107	Lafreniere	CA/GS	Spectroscopic characterization of new wide binary systems harboring a cool dwarf	GMOS	16.2
GN-2008B-Q-108	Lebzelter	US	Long term variability of MIR-spectra of evolved stars	Michelle	7.5
GN-2008B-Q-109	Lee	US	Present-Day Metallicities for Constructing Star-Formation Histories in Nearby Dwarf Galaxies (North, part 2 of 2)	GMOS	8
GN-2008B-Q-110	Leggett	GS	An Infrared Spectroscopic Study of the States of Carbon in White Dwarf Atmospheres	NIRI	4.5
GN-2008B-Q-111	Leggett	CA/GS	Measuring the Ages of New Old White Dwarfs Found in the UKIRT Infrared Sky Survey	GMOS	8
GN-2008B-Q-112	Levan	UK/US	Swift GRB hosts at known redshift	GMOS	16.8
GN-2008B-Q-113	Lima Neto	BR	Spectroscopy of very faint Coma cluster blue dwarf galaxies	GMOS	4
GN-2008B-Q-114	Lipari	AR	GMOS 3D-Spectroscopy of Fe II/Balmer Low Ionization BAL QSOs (at medium/high z)	GMOS	2.5
GN-2008B-Q-115	Lopes de Oliveira	BR	An extensive study of the fossil group 1RXSJ111107.2+6649	GMOS	3
GN-2008B-Q-116	Mason	GS	Further spectroscopic investigations of NGC 1068	Michelle	2.5
GN-2008B-Q-117	Matheson	US	Revealing the Heart of the Explosion: Nebular-Phase Spectroscopy of Type I Supernovae	GMOS	13.1
GN-2008B-Q-118	Megeath	US	The Orion Protostar Survey: NIRI Spectroscopy of Spitzer Identified Protostars in the Orion Complex	NIRI	24
GN-2008B-Q-119	Patience	AU/CA/ UK/US	Resolving the A Star Binary Population with Gemini AO	NIRI+Altair	22.6
GN-2008B-Q-120	Piatti	AR	Galactic orbits of old open clusters : implications about the metallicity distribution in the early Galactic disk	GMOS	4.5

GN-2008B-Q-121	Richter	US	Determining Inner-disk Chemistry	Michelle/ NIRI	1.6
GN-2008B-Q-122	Rupke	UH	Grain Destruction in Galactic Superwinds	NIRI	10
GN-2008B-Q-123	Scholz	CA	Reaching for the bottom of the IMF: Spectroscopy of ultra-low mass brown dwarfs	GMOS	6
GN-2008B-Q-124	Thompson	US	Measuring the Surface Inhomogeneity of Calcium on G~29-38	GMOS	20
GN-2008B-Q-125	Wahhaj	UH	Probing Terrestrial Planet Formation Around Nearby M Dwarfs	Michelle	18.8
GN-2008B-Q-126	Ward	UK	AGN with extraordinarily broad, complex [O III] profiles; evidence for winds or mergers?	GMOS	12.5
GN-2008B-Q-127	Whiting	AU	Searching for dusty absorbers in front of quasars	GMOS	10.1
GN-2008B-Q-128	Willis	UK	Probing the inner dark matter structure of late-type galaxies using a SDSS lensing survey: Gemini North component	GMOS	17.1
GN-2008B-Q-245	Andrews	US	A Comprehensive Study of Dust Formation in Type II Supernovae with HST, Spitzer and Gemini	GMOS/ GMOS-S	9.3

### GS Scientific Ranking 2008B Band 1

Ref #	PI	Partner	Title	Instrument	Hours
GS-2008B-Q-1	Arriagada	CL	RR Lyrae in the Galactic bulge: the Milky Way's oldest population?	GMOS-S	21.2
GS-2008B-Q-2	Berger	AU/CA/ GS/UK/ US	Gamma-Ray Bursts: From Progenitors to Probes	GMOS-S	19.3
GS-2008B-Q-3	Bersier	UK	The Supernovae of Gamma-Ray Bursts: Exploring the diversity of stellar explosions	GMOS-S	6
GS-2008B-Q-4	Bildfell	CA	BCG Dynamics and Cluster Centres: Understanding a Symbiotic Relationship	GMOS-S	12.1
GS-2008B-Q-5	Bosch	AR	Binarity in the massive end of the IMF	GMOS-S	7.5
GS-2008B-Q-6	Drinkwater	AU/UK	The origin of ultra-compact dwarf galaxies in the Fornax Cluster	GMOS-S	19.3
GS-2008B-Q-7	Firpo	AR	IFU spectroscopy of Giant Extragalactic HII Regions	GMOS-S	6
GS-2008B-Q-8	Stritzinger	CL	Late-time spectroscopic study of supernovae in the Local Universe by the Chilean Millennium Center for Supernova Studies	GMOS-S	8
GS-2008B-Q-9	Heinke	US	Constraining the Neutron Star Mass in SAX J1808.4-3658 Through a Multicolor Light Curve	GMOS-S	8.6
GS-2008B-Q-10	Hinkle	GS	Surveying the Gas Phase of Post-AGB Disks	Phoenix	17
GS-2008B-Q-11	Hoyer	CL	Search for unseen companions around 3 transiting planets using Transit Timing Variations.	GMOS-S	22
GS-2008B-Q-12	Luhman	US	Spectroscopy of Candidate Brown Dwarfs with Disks	GMOS-S	10.5
GS-2008B-Q-13	Mackey	UK	Deep GMOS Imaging of Newly-Discovered Globular Clusters in NGC 6822	GMOS-S	15.1

GS-2008B-Q-14	Matheson	US	Extending the ESSENCE Survey: Host Galaxies of High-Redshift Supernovae	GMOS-S	17.5
GS-2008B-Q-15	Sawicki	CA	Luminosity - the Missing Dimension in Studies of High-z Galaxies	GMOS-S	15
GS-2008B-Q-16	Sharp	AU	An Ionization Cone in the X-ray Binary LMC X-1	GMOS-S	4.2
GS-2008B-Q-18	Smith	UK	LoCuSS: Calibrating the Strong-lensing Signal in Galaxy Cluster Cores at z=0.2	GMOS-S	36
GS-2008B-Q-19	Smith	US	Using Chemical Abundance Patterns to Determine the Origin of the Galactic Anticenter Stellar Structure (GASS)	Phoenix	30
GS-2008B-Q-20	Soderberg	US	The Many Facets of Type Ibc Supernovae	GMOS-S	4
GS-2008B-Q-21	Steiner	BR	Search for very weak LINER 1 galactic nuclei	GMOS-S	6
GS-2008B-Q-22	Troutman	US	Tracing Gas in the Inner Disks of Young Massive Stars Using Spectro-Astrometry	Phoenix	2
GS-2008B-Q-23	Willott	CA	z=6 quasars to probe the reionization of the universe	GMOS-S	10.7
GS-2008B-Q-24	Yamada	JP	Truncation of star formation in early-type galaxies in the cluster infall region	GMOS-S	1
GS-2008B-Q-25	Zepf	US	Understanding the Low-Mass X-ray Binaries in the Sculptor Dwarf Spheroidal Galaxy	GMOS-S	2.2
GS-2008B-Q-500	Liu		NICI Extrasolar Planet Search Campaign (I)	NICI	99.96
GS-2008B-Q-501	Liu		NICI Extrasolar Planet Search Campaign (II)	NICI	39.99

### GS Scientific Ranking 2008B Band 2

Ref #	PI	Partner	Title	Instrument	Hours
GS-2008B-Q-17	Smith	US	IR Variability of Eta Carinae: The 2009 Event	Phoenix/ TReCS	24
GS-2008B-Q-26	Aldering	US	Host Galaxies of Hubble Flow Type Ia Supernovae	GMOS-S	8
GS-2008B-Q-27	Bridges	AR/AU/C A/UK/US	Globular Clusters as Probes of Galaxy Formation: The Isolated Elliptical NGC 720	GMOS-S	16.1
GS-2008B-Q-28	Croll	CA/GS	Searching for Atmospheric Absorption in the Transmission Spectra of hot Jupiters	GMOS-S	27
GS-2008B-Q-29	Davidson	US	Eta Carinae's Continuing Instability and Recovery -- The 2009 "Event"	GMOS-S	27.5
GS-2008B-Q-30	Haberzettl	US	Spectroscopy of an extreme Low Surface Brightness Galaxy around the HDF-S	GMOS-S	6
GS-2008B-Q-31	Hall	CA	Identification Spectroscopy of Two 5.5<z<6.5 Quasar Candidates	GMOS-S	3.7
GS-2008B-Q-32	Stritzinger	CL	Late-time spectroscopic study of supernovae in the Local Universe by the Chilean Millennium Center for Supernova Studies	GMOS-S	15
GS-2008B-Q-33	Keller	AU	Chemical Evolution in the Sagittarius Stream	Phoenix	21
GS-2008B-Q-34	Lafreniere	CA/GS	Spectroscopic characterization of new wide binary systems harboring a cool dwarf	GMOS-S	15

GS-2008B-Q-35	Leggett	GS	Measuring the Ages of New Old White Dwarfs Found in the UKIRT Infrared Sky Survey	GMOS-S	9
GS-2008B-Q-36	Radomski	GS	Quantifying the Dusty Surroundings of Unobscured AGN with Mid-IR Observations	TReCS	9.7
GS-2008B-Q-37	Richtler	CL	Is there dark matter in NGC7507?	GMOS-S	25.2
GS-2008B-Q-38	Sako	US	The Physical Properties of Type Ia Supernovae Host Galaxies	GMOS-S	23
GS-2008B-Q-39	Sawicki	CA	Luminosity - the Missing Dimension in Studies of High-z Galaxies	GMOS-S	15
GS-2008B-Q-40	Schreiber	CL/UK	White dwarf-main sequence binaries as tracers of close binary evolution	GMOS-S	25.7
GS-2008B-Q-41	Sewilo	US	Revealing the Nature of Massive Star Formation in the Large Magellanic Cloud	TReCS	14
GS-2008B-Q-42	Smith	UK	Testing self-stirring models through resolved imaging of eta Tel	TReCS	18
GS-2008B-Q-43	Steinfadt	US	Searching for Pulsations from a Helium White Dwarf Companion to a Millisecond Pulsar	GMOS-S	6
GS-2008B-Q-44	Tadhunter	UK	Understanding the symbiosis between AGN and host galaxy evolution	GMOS-S	31.7

### GS Scientific Ranking 2008B Band 3

Ref #	PI	Partner	Title	Instrument	Hours
GS-2008B-Q-45	Andrews	US	A Comprehensive Study of Dust Formation in Type II Supernovae with HST, Spitzer and Gemini	GMOS-S	9.3
GS-2008B-Q-46	Binette	CA	T-ReCS imaging of polar-scattered Seyfert 1 galaxies	TReCS	6
GS-2008B-Q-47	Cannon	US	Embedded Star Formation Regions in the Dwarf Starburst Galaxy NGC 1705	TReCS	20
GS-2008B-Q-48	Chen	US	Characterizing the Dusty Disk Around the Nearby, Young Star HD 181327	TReCS	26
GS-2008B-Q-49	Conselice	UK	The Nature of Distant Peculiar Galaxies	GMOS-S	20
GS-2008B-Q-50	Crighton	UK	Tracing the IGM-galaxy distribution around three closely-spaced QSO sight-lines	GMOS-S	9
GS-2008B-Q-51	Cunha	US	Chemical Evolution at the Edge of the Bar: Abundances of Red-supergiants in the Massive Cluster Scutum-Crux	Phoenix	15
GS-2008B-Q-52	Dall	GS/US	VSOP: Fixing the variable sky with one-shot typing of neglected variables	GMOS-S	32.4
GS-2008B-Q-53	Fitzgerald	US	Beyond SEDs --- Measuring the Size and Morphology of Mid-IR Emission in Nearby Debris Disks	TReCS	8
GS-2008B-Q-54	Forte	AR	The halo-globular cluster connection in the elliptical galaxy NGC 1316	GMOS-S	5.4
GS-2008B-Q-55	Gil-Hutton	AR	Searching for cometary activity in Centaurs with Gemini South	GMOS-S	6.6
GS-2008B-Q-56	Stritzinger	CL	Late-time spectroscopic study of supernovae in the Local Universe by the Chilean Millennium Center for Supernova Studies	GMOS-S	20



GS-2008B-Q-57	Klesman	US	The Environment & Evolution of AGN in \ Intermediate-Redshift Clusters	GMOS-S	12
GS-2008B-Q-58	Lebzelter	US	The role of stellar variability in mid-IR circumstellar spectra	TReCS	20
GS-2008B-Q-59	Lebzelter	US	Long term variability of MIR-spectra of evolved stars	TReCS	3.2
GS-2008B-Q-60	Lee	CA	An Optical Spectroscopic Study of Pre-Main Sequence Stars around SNR G54.1+0.3	GMOS-S	12.9
GS-2008B-Q-61	Lee	GS/US	Present-Day Metallicities for Constructing Star-Formation Histories in Nearby Dwarf Galaxies (South, part 2 of 2)	GMOS-S	60.6
GS-2008B-Q-62	Lopez	CL	Probing Cluster Galaxies With Background QSOs	GMOS-S	13
GS-2008B-Q-63	Melbourne	US	The Spatial Distribution of Warm Dust and PAH in Luminous Infrared Galaxies	TReCS	31
GS-2008B-Q-64	Mendes de Oliveira	BR	Ultra-compact dwarf galaxies in the making? A UCD search in a compact group of galaxies	GMOS-S	4
GS-2008B-Q-65	Miszalski	CA	Binary Central Stars of Bulge Planetary Nebulae: Exploiting a Substantial New Sample	GMOS-S	8.5
GS-2008B-Q-66	Mora	CL	The disk dynamics and mass loss history of some B[e] supergiants	Phoenix	10
GS-2008B-Q-67	Nagar	CL	Tracing gas flows in Active Galactic Nuclei down to the innermost few parsecs	GMOS-S	15
GS-2008B-Q-68	Norman	GS/UK/ US	X-ray selected AGN in a Merging Cluster Environment	GMOS-S	16
GS-2008B-Q-69	Reid	AU	Investigation of the initial to final mass relation using newly discovered AGB halos surrounding planetary nebulae in the LMC.	GMOS-S	10.8
GS-2008B-Q-70	Richter	US	Determining Inner-disk Chemistry	TReCS	0.8
GS-2008B-Q-71	Roche	UK	A high spatial resolution study of the nearby, heavily obscured nuclei	TReCS	2.5
GS-2008B-Q-72	Ryder	AU	Supernova 1978K at 30	GMOS-S	1.9
GS-2008B-Q-73	Sanchez-Blazquez	UK	The Star Formation History of Galactic Disks	GMOS-S	16.1
GS-2008B-Q-74	Stansberry	US	KBO Binarities and Spin from Visible Lightcurves	GMOS-S	20
GS-2008B-Q-75	Telles	BR	Kinematics and abundances of an HII Galaxy with an extraordinarily dense nucleus: Mrk 996	GMOS-S	3.9
GS-2008B-Q-76	Tsamis	UK	IC1613: the Local Group chemistry from PNe and HII regions of dwarf galaxies	GMOS-S	7.3
GS-2008B-Q-77	Verma	UK	The extensive Galaxy Zoo LENSing Survey - eGZeLENS	GMOS-S	12
GS-2008B-Q-78	Wang	CA	Time-Resolved Photometry of the Candidate Ultracompact Low-Mass X-Ray Binary 2S 0918-549	GMOS-S	2.3
GS-2008B-Q-79	Willis	UK	Probing the inner dark matter structure of late-type galaxies using a SDSS lensing survey: Gemini South component	GMOS-S	13.8
GS-2008B-Q-80	Yan	CA	Spatially Resolved Spectroscopy of Post-starburst Galaxies: Assembly and Quenching History of Local Ellipticals	GMOS-S	10
GS-2008B-Q-81	Yeh	CA/GS	Starburst wind-ambient gas interaction in 30 Doradus	Phoenix	22
GS-2008B-Q-82	Zijlstra	UK	The AGB superwind in the Sgr dwarf galaxy	TReCS	3

GS-2008B-Q-83	Zuckerman	US	Terrestrial Planet Formation and Evolution around Sun-like Stars	TReCS	7.4
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### GN Scientific Ranking 2009A Band 1

Ref #	PI	Partner	Title	Instrument	Hours
GN-2009A-Q-1	Wilson	CA/US	The Gemini Cluster Astrophysics Spectroscopic Survey (GCLASS)	GMOS	32
GN-2009A-Q-2	Willott	CA	z=6 quasars to probe the reionization of the universe	GMOS	9
GN-2009A-Q-3	Warren	UK	The highest redshift quasars $5.8 < z < 7.2$ in the UKIDSS LAS	GMOS/NIRI	6.8
GN-2009A-Q-4	Volk	GS	Direct Imaging of the UIR Emission in NGC 7027	NIRI+Altair LGS	2.5
GN-2009A-Q-5	Valenti	UK	The PS1 core-collapse supernova survey: explosion rates	GMOS	5
GN-2009A-Q-6	Trujillo	GS	Primordial Solar System Ices	NIRI	7.5
GN-2009A-Q-7	Tonry	UH	Characterization of Pan-STARRS Transients	GMOS	16
GN-2009A-Q-8	Stockton	UH	Spectral-Energy Distributions of High-Redshift Galaxies	NIRI	3
GN-2009A-Q-9	Shemmer	US	Lineless Quasars at High Redshift: Extremely High Accretion Rate Sources?	NIRI	6
GN-2009A-Q-10	Sand	US	Spectroscopy of Hostless Supernovae Candidates	GMOS	7
GN-2009A-Q-11	Saito	JP	Spectroscopic follow-up of Ly-alpha blobs at z~3 in the 2 sq. deg COSMOS field	GMOS	1
GN-2009A-Q-12	Ryder	AU	ALTAIR Study of Supernovae in Luminous Infrared Galaxies	NIRI+Altair LGS	10
GN-2009A-Q-13	Roe	US	Titan methane weather at Equinox: \ Seasonal climate change and surface geology	NIFS+Altair /NIRI+Altair	10
GN-2009A-Q-14	Roberts	UK	Constraining the mass of the black hole within an ultraluminous X-ray source	GMOS	19.3
GN-2009A-Q-15	Reipurth	UH	A BROWN DWARF IN A BINARY FUOR SYSTEM	NIRI+Altair/ NIRI+Altair LGS	3
GN-2009A-Q-16	Pinfield	AU/GS/ UK	Probing a new substellar temperature regime with the UKIDSS Large Area Survey	NIRI	33
GN-2009A-Q-17	Parker	CA/US	Weighing KBOs: Characterizing Kuiper Belt Binaries	GMOS	16.4
GN-2009A-Q-18	McCall	CA	A Unified Approach to the Chemistry of Bulges and Disks	GMOS	10
GN-2009A-Q-19	Littlefair	UK	The brown dwarf mass donor in SDSS 1433+1011	NIRI	12.3
GN-2009A-Q-20	Lafreniere	CA	Follow-up of a planetary mass candidate companion to a young solar mass star	NIFS+Altair /NIRI+Altair	6.5
GN-2009A-Q-21	Hennawi	US	Spectroscopy of Giant Arcs Behind the Strongest Lenses in the Universe	GMOS	40
GN-2009A-Q-22	Graham	US	L-prime Imaging of an Exoplanet Candidate	NIRI	7
GN-2009A-Q-23	Gies	US	Angular Momentum of Newborn Massive Stars in M17	NIFS+Altair	5
GN-2009A-Q-24	Gerardy	US	Mapping the Kinematic Structure of Radioactive Ejecta in Type Ia Supernovae	NIRI	6.8

GN-2009A-Q-25	Geballe	GS	The nature of the central star of GC/IRS8	NIFS+Altair LGS	6
GN-2009A-Q-26	Tanvir	AU/CA/ GS/UK/ US	Rapid observations of gamma-ray bursts	GMOS/NIRI	16.9
GN-2009A-Q-27	Forte	AR	A deep spectroscopic field in NGC 4486	GMOS	13.1
GN-2009A-Q-28	Ford	US	Spectroscopy of an Exceptionally Bright Candidate Galaxy at z~6 in Abell 1703	GMOS	10
GN-2009A-Q-29	Richer	CA	Geometric Distance and Internal Dynamics in the Globular Cluster M71	GMOS/ NIRI+Altair	13
GN-2009A-Q-30	Dartois	GS	Testing for patchiness in the distribution of the 3.4 micron feature associated with carbonaceous grains.	NIRI	5
GN-2009A-Q-31	Cushing	UH	Precision Tests of Ultracool Dwarf Atmospheric Models	NIRI	13
GN-2009A-Q-33	Conselice	GS	How do small massive galaxies become big massive galaxies?	NIRI/NIRI+ AltairLGS	6.6
GN-2009A-Q-34	Bolton	UH	GMOS-IFU Observations of Spectroscopic Quasar-Lens Candidates	GMOS	11
GN-2009A-Q-35	Barbosa	BR	NIRI to unveil W51 IRS2	NIRI+Altair LGS	2.1
GN-2009A-Q-36	Barbosa	BR	Pursuing the Origin of the Massive Jet in W51	NIFS+Altair LGS	3.1

### GN Scientific Ranking 2009A Band 2

Ref #	PI	Partner	Title	Instrument	Hours
GN-2009A-Q-37	Webb	CA/US	Spectroscopy of Infrared Galaxies in Clusters to z = 1	GMOS	23.6
GN-2009A-Q-38	Vlajic	AU	The Outermost Regions of Galactic Disks	GMOS	11
GN-2009A-Q-39	Swinbank	UK	Galaxies Under the Cosmic Microscope: A preview of ELT science with NIFS	NIFS/NIFS+ Altair/NIFS+ AltairLGS	21
GN-2009A-Q-40	Seth	US	Surveying Nearby Nuclear Star Clusters	NIFS+Altair LGS	20.5
GN-2009A-Q-41	Schiavon	GS	CNO Abundances in Globular Cluster Stars from NIR Spectra - A Pilot Program	NIRI	6.6
GN-2009A-Q-42	Ridgway	US	Deep rest-frame optical imaging of Type 2 quasar host galaxies	NIRI+Altair LGS	8
GN-2009A-Q-43	Reipurth	UH	Tertiary Companions to Eclipsing Binaries with Third Light	NIRI+Altair	2
GN-2009A-Q-44	Puzia	CA	Intermediate-Age Globular Clusters in Elliptical Galaxies	GMOS	22.5
GN-2009A-Q-45	Pellizza	AR	A galaxy cluster at redshift 2.15?	NIRI	2
GN-2009A-Q-46	Papovich	US	Survey of Pa $\alpha$ in High Redshift Galaxies	NIRI	30
GN-2009A-Q-47	Nitta	GS	Towards a Better Understanding of Pulsating He atmosphere White Dwarf Stars Instability Strip	GMOS	9
GN-2009A-Q-48	Miller	US	Late-time Observations of the Extremely Luminous Supernova 2008es	GMOS/NIRI	9

GN-2009A-Q-50	Matheson	US	Constraining the Hubble Constant with a Type II Supernova	GMOS	12
GN-2009A-Q-51	Marsh	UK	Pulsating, helium-core white dwarfs	GMOS	1
GN-2009A-Q-52	Lucey	UK/US	The origin of S0 disks in the dense cluster environment	GMOS	36
GN-2009A-Q-53	Lacerda	UH	The Nature of Haumea's Surface and Interior	NIFS	8.5
GN-2009A-Q-54	Krajinovic	GS/UK	Determining the low-mass end of the local Mbh-sigma relation	NIFS+Altair LGS	32
GN-2009A-Q-55	Kotak	UK	Extreme supernovae or new transients?	GMOS	5.2
GN-2009A-Q-56	Jedicke	UH	PS1 Solar System Follow-up Science	GMOS/NIRI	4
GN-2009A-Q-57	Howell	UK	UV and Early-time Studies of the Evolution of Type Ia Supernovae	GMOS	4
GN-2009A-Q-58	Gladstone	UK	The optical counterpart of the ultraluminous X-ray source NGC 4395 X-1	GMOS	4.5
GN-2009A-Q-59	Fritz	GS	Kinematics and stellar populations of the most massive galaxies	GMOS	6
GN-2009A-Q-60	Fitzsimmons	UK	Adaptive optics studies of binary Near-Earth Asteroids	NIRI+Altair	4
GN-2009A-Q-61	Croll	CA	Searching for Atmospheric Absorption in the Transmission Spectra of hot Jupiters	GMOS	16
GN-2009A-Q-62	Cieza	UH	Understanding Transition Circumstellar disks: a search for close companions	NIRI+Altair/ NIRI+Altair LGS	10
GN-2009A-Q-63	Chambers	UH	Quasar Candidates from PS1 at redshifts $z \sim 7$	GMOS	5
GN-2009A-Q-64	Bridges	AR/US	Dynamical Modelling of the Dark Halo, Black Hole, and Orbital Structure in NGC4649	GMOS	7.5
GN-2009A-Q-65	Bosch	AR	Star Formation in Circumnuclear Regions	NIFS/NIFS+ AltairLGS	3
GN-2009A-Q-66	Bersier	UK	The Supernovae of Gamma-Ray Bursts: Exploring the diversity of stellar explosions	GMOS	4
GN-2009A-Q-67	Balogh	US	The transition of galaxy groups from an invigorating environment to a suffocating one	GMOS	10
GN-2009A-Q-68	Allen	US	A Survey for Faint, Close, Low-Mass Tertiaries to Nearby Spectroscopic Binaries	NIRI+Altair	15.3

### GN Scientific Ranking 2009A Band 3

Ref #	PI	Partner	Title	Instrument	Hours
GN-2009A-Q-69	Westmoquette	GS	Multi-wavelength 3D spectroscopy of nearby Ultraluminous Infrared Galaxies (ULIRGs)	NIFS+Altair	10.8
GN-2009A-Q-70	Torres	UK/US	The primary role of the SW Sextantis stars in the evolution of cataclysmic variables	GMOS	6.4
GN-2009A-Q-71	Thorman	US	Identifying High-z QSOs in the Deep Lens Survey	GMOS	7
GN-2009A-Q-72	Thanjavur	US	The relative distribution of visible and dark matter in galaxy groups selected by gravitational lensing	GMOS	14.7
GN-2009A-Q-73	Stott	UK/US	The XCS/DXS search for the highest redshift galaxy clusters	GMOS	19.2

GN-2009A-Q-74	Steiner	BR	Off-centered and double AGN: dynamics and PCA tomography	NIFS+Altair	5.3
GN-2009A-Q-75	Steeghs	UK	The space-density of ultra-compact white dwarf binaries	GMOS	14.6
GN-2009A-Q-76	Roche	US	Kinematics of extremely high velocity dispersion E/S0 galaxies in the SDSS	GMOS	43
GN-2009A-Q-77	Radigan	CA/GS	A Deep Look Into Upper Scorpius: A search for planetary mass companions around young stars	NIRI+Altair	44
GN-2009A-Q-78	Perrin	CA/UK/ US	Resolved Imaging of Two New Protoplanetary Disks around Young Fe stars	NIRI+Altair	6
GN-2009A-Q-79	Matheson	US	Revealing the Heart of the Explosion: Nebular-Phase Spectroscopy of Type I Supernovae	GMOS	12.7
GN-2009A-Q-80	Marois	CA/UK/ US	A Volume-Limited Direct Imaging Exoplanet Survey of Young & Nearby Early-Type Stars (IDPS survey).	NIRI+Altair	24
GN-2009A-Q-81	Mackie	AU	The mass of the black hole in the Galactic Microquasar GRS 1915+105	NIFS	6.75
GN-2009A-Q-82	Lipari	AR	GMOS 3D-Spectroscopy of Fe II Low Ionization BAL QSOs (at medium z)	GMOS	2.2
GN-2009A-Q-83	Lewis	AU	Sloan Lenses Unraveled by Gemini Studies (SLUGS)	GMOS	19.3
GN-2009A-Q-84	Levan	UK	Understanding gamma-ray burst host galaxies	GMOS/NIRI	6
GN-2009A-Q-85	Lee	GS	Do Global MIPS Colours for Field Dwarf Irregular Galaxies Turn Over With Metallicity?	GMOS	13
GN-2009A-Q-86	Laycock	GS	New Variable Stars with 100 year Lightcurves in the Beehive Cluster.	GMOS	13
GN-2009A-Q-87	Jedicke	UH	PS1 Solar System Follow-up Science	GMOS/NIRI	31
GN-2009A-Q-88	Janson	CA	Imaging search for companions down to planetary mass around extremely massive stars	NIRI+Altair	20
GN-2009A-Q-89	GOTO	UH	A search for high redshift QSOs at $5.8 < z < 8$	GMOS/NIRI	20.5
GN-2009A-Q-90	Gomez	AR	Mineralogy of Young Brown Dwarfs Protoplanetary Disks	NIRI	9.2
GN-2009A-Q-91	Gil-Hutton	AR	Searching for cometary activity in Centaurs with Gemini North	GMOS	2
GN-2009A-Q-92	Edge	UK	Are cooling flows just late-developers?	NIRI	32
GN-2009A-Q-93	Dupke	BR/US	An extensive study of the Fossil Groups of galaxies	GMOS	27
GN-2009A-Q-94	Dieterich	US	GJ 433: Resolving a Suspected Binary Near the Stellar/Substellar Boundary	NIRI+Altair	0.6
GN-2009A-Q-95	Conselice	UK	The Nature of Asymmetric Galaxies at $z \sim 1.5$	GMOS	10
GN-2009A-Q-96	Chambers	UH	Quasar Candidates from PS1 at redshifts $z \sim 7$	GMOS	16
GN-2009A-Q-97	Chakraborti	AU	The nature of the Interstellar Medium in the cavities blown by Supernovae in M101	GMOS	5.9
GN-2009A-Q-98	Blundell	UK	A search for circumbinary rings in microquasars: towards a new tool in the tool-kit	NIRI	22.5
GN-2009A-Q-99	Bian	US	Clustering of $z \sim 3$ Lyman Break Galaxies in NOAO Deep Wide Field: Tracing the Evolution of the Large Scale Structure	GMOS	20
GN-2009A-Q-100	Beck	US	Spatially Resolving Molecular Hydrogen Emission in Planet-forming Disks	NIFS/ NIFS+Altair	20
GN-2009A-Q-101	Barnes	US	Star Formation Activity in the Outer Disk of a Sample of "Normal" Spiral Galaxies	GMOS	10

GN-2009A-Q-102	Aragon-Salamanca	UK	The formation of Lenticular galaxies: high S/N spectroscopy of Virgo S0s	GMOS	26
GN-2009A-Q-256	Schreiber	CL/UK	White dwarf-main sequence binaries as tracers of close binary evolution	GMOS/ GMOS-S	22.5

### GS Scientific Ranking 2009A Band 1

Ref #	PI	Partner	Title	Instrument	Hours
GS-2009A-Q-1	Zepf	US	A GMOS Study [of the Optical Spectrum] of the Black Hole Hosting Globular Cluster RZ2109	GMOS-S	7.5
GS-2009A-Q-2	Wisniewski	US	New Dust Production in V838 Monocerotis	TReCS	1.7
GS-2009A-Q-3	Willott	CA	z=6 quasars to probe the reionization of the universe	GMOS-S	9
GS-2009A-Q-4	Valenti	UK	The PS1 core-collapse supernova survey: explosion rates	GMOS-S	10
GS-2009A-Q-5	Sodre	BR	The structure of RXC J1504-0248, a massive cool-core cluster in the nearby universe	GMOS-S	3.3
GS-2009A-Q-6	Smith	US	Dust in the SN1987A-analog SBW1 in Carina	TReCS	14
GS-2009A-Q-7	Sinnott	CA/US	Optical Spectroscopy of the Light Echo System of SN1987A	GMOS-S	4.2
GS-2009A-Q-8	Richter	US	Dust Emission in Edge-on Protoplanetary Disks	TReCS	9.5
GS-2009A-Q-9	Rest	CA/US	Echoes of Historic Milky Way Supernovae: Spectroscopy of the Kepler, RCW 86, and SN1006 SNe at maximum light	GMOS-S	8
GS-2009A-Q-10	Pignata	CL	Studying the local environment of Type Ia Supernovae	GMOS-S	3
GS-2009A-Q-11	Peng	CA/CL	Environment and the Formation of Dwarf Elliptical Galaxies: A Unified Study of Field Stars, Stellar Nuclei and Globular Clusters	GMOS-S	21
GS-2009A-Q-12	Pastorello	UK	The PS1 core-collapse supernova survey: deaths of very massive stars	GMOS-S	2.5
GS-2009A-Q-13	Nitta	GS	Towards a Better Understanding of Pulsating He atmosphere White Dwarf Stars Instability Strip	GMOS-S	13
GS-2009A-Q-14	Margheim	GS	Surveying the Gas Phase of Post-AGB Disks	Phoenix	9
GS-2009A-Q-15	Mackey	UK	Deep GMOS Imaging of Newly-Discovered Globular Clusters in NGC 6822	GMOS-S	12
GS-2009A-Q-16	Hoyer	CL	Search for unseen companions around 4 transiting planets using Transit Timing Variations.(IIa)	GMOS-S	20
GS-2009A-Q-17	Stritzinger	CL	Late-time spectroscopic study of supernovae in the Local Universe by the Chilean Millennium Center for Supernova Studies	GMOS-S	12
GS-2009A-Q-18	Gerardy	US	Mapping the Kinematic Structure of Radioactive Ejecta in Type Ia Supernovae	GMOS-S	3.6
GS-2009A-Q-19	Fitzgerald	US	Tracing Asymmetries in a Newly Discovered Debris Disk	TReCS	13.3
GS-2009A-Q-20	Crowther	UK	GMOS spectroscopy of Wolf-Rayet candidates in NGC 5068 and NGC6744: Type Ibc supernova progenitors?	GMOS-S	14.9
GS-2009A-Q-21	Croll	GS	Searching for Atmospheric Absorption in the Transmission Spectra of hot Jupiters	GMOS-S	27
GS-2009A-Q-22	Bridges	AU	Australian Gemini GMOS Imaging Contest for IYA 2009	GMOS-S	1

GS-2009A-Q-23	Bloom	AU/CA/CL/US	Concerted Follow-up of Swift and Fermi GRBs (Gemini South)	GMOS-S	21.92
GS-2009A-Q-24	Blakeslee	CA/UK	The Nature of Ultra-Compact Dwarf Galaxies: Exploring the Link with Globular Clusters	GMOS-S	17.5
GS-2009A-Q-25	Bassino	AR	Deepening on the faint galaxy content of the Antlia cluster	GMOS-S	13.2
GS-2009A-Q-26	Alves-Brito	AU	High-resolution infrared abundance analysis of giant stars in the globular cluster M22	Phoenix	12.4
GS-2009A-Q-500	Liu		NICI Extrasolar Planet Search Campaign (I)	NICI	150
GS-2009A-Q-501	Liu		NICI Extrasolar Planet Search Campaign (II)	NICI	150

### GS Scientific Ranking 2009A Band 2

Ref #	PI	Partner	Title	Instrument	Hours
GS-2009A-Q-27	Zoccali	CL	Chemical abundances of highly obscured Bulge globular clusters	Phoenix	8
GS-2009A-Q-28	Wyatt	UK	Assessing the State of Planet Formation Through Resolved Imaging of HD191089	TReCS	8.5
GS-2009A-Q-29	Webb	CA/CL/US	Spectroscopy of Infrared Galaxies in Clusters to $z = 1$	GMOS-S	33.5
GS-2009A-Q-30	Stott	UK	The XCS/DXS search for the highest redshift galaxy clusters	GMOS-S	4.8
GS-2009A-Q-31	Steeghs	UK	The space-density of ultra-compact white dwarf binaries	GMOS-S	14.6
GS-2009A-Q-32	Smith	UK	A spatially-resolved spectroscopic census of Lyman-alpha haloes	GMOS-S	12.6
GS-2009A-Q-33	Richter	US	CO Fundamental Absorption in Edge-on Protoplanetary Disks	Phoenix	18
GS-2009A-Q-34	Pastoriza	BR	Mid-infrared Observations of the Seyfert galaxies NGC3281 and NGC5728	TReCS	6
GS-2009A-Q-35	Miszalski	AU/CA	Testing common-envelope evolution models with new binary nuclei of bulge PN	GMOS-S	20.5
GS-2009A-Q-36	Meech	US	Rotation Period for Comet P/Hartley 2, Support for the EPOXI Mission	GMOS-S	16
GS-2009A-Q-37	Marsh	UK	Pulsating, helium-core white dwarfs	GMOS-S	1.4
GS-2009A-Q-38	Luhman	US	Estimating the Mass of a Young Substellar Companion	GMOS-S	2.5
GS-2009A-Q-39	Lu	CA/UK	Galaxy transformation in groups within the accretion zone of clusters	GMOS-S	31.2
GS-2009A-Q-40	Kotak	UK	Extreme supernovae or new transients?	GMOS-S	5.2
GS-2009A-Q-41	Hoyer	CL	Search for unseen companions around 4 transiting planets using Transit Timing Variations.(IIb)	GMOS-S	5
GS-2009A-Q-42	Howell	UK	UV and Early-time Studies of the Evolution of Type Ia Supernovae	GMOS-S	4
GS-2009A-Q-43	Stritzinger	CL	Late-time spectroscopic study of supernovae in the Local Universe by the Chilean Millennium Center for Supernova Studies	GMOS-S	12
GS-2009A-Q-44	Fritz	GS	Kinematics and stellar populations of the most massive galaxies	GMOS-S	17

GS-2009A-Q-45	Davidson	US	Eta Carinae's Continuing Instability and Recovery -- The 2009 "Event"	GMOS-S	10
GS-2009A-Q-46	Cellone	AR	The globular cluster system of NGC 5044	GMOS-S	8
GS-2009A-Q-47	Bridges	AU/CA/ UK	Dynamical Modelling of the Dark Halo, Black Hole, and Orbital Structure in NGC4649	GMOS-S	24.3
GS-2009A-Q-48	Bersier	UK	The Supernovae of Gamma-Ray Bursts: Exploring the diversity of stellar explosions	GMOS-S	4
GS-2009A-Q-49	Andrews	US	A Comprehensive Study of Dust Formation in Type II Supernovae with HST, Spitzer and Gemini	GMOS-S	24.5

### GS Scientific Ranking 2009A Band 3

Ref #	PI	Partner	Title	Instrument	Hours
GS-2009A-Q-50	Zoccali	CL	Chemical abundances of highly obscured Bulge globular clusters	Phoenix	22
GS-2009A-Q-51	Wiersema	UK	The nature of faint persistent Galactic X-ray sources detected by RXTE scans	GMOS-S	5.5
GS-2009A-Q-52	Verma	UK	The extensive Galaxy Zoo LENSing Survey - eGZeLENS	GMOS-S	18.8
GS-2009A-Q-53	Tisserand	AU	Detecting 18O in DY Per stars : do DY Per stars follow the same evolutionary pathway as R Coronae Borealis stars ?	Phoenix	7.4
GS-2009A-Q-54	Tadhunter	UK	Understanding the symbiosis between AGN and host galaxy evolution	GMOS-S	16.3
GS-2009A-Q-55	Steiner	BR	PCA tomography of SN1987A	GMOS-S	1.4
GS-2009A-Q-56	Schreiber	CL/UK	White dwarf-main sequence binaries as tracers of close binary evolution	GMOS-S/ GSAOI+Ge MS AO	22.5
GS-2009A-Q-57	Rutledge	CA	Radial Velocity Measurements of two quiescent LMXBs in the globular cluster NGC 6304	GMOS-S	12.5
GS-2009A-Q-58	Reid	AU	Investigation of the initial to final mass relation using newly discovered AGB halos surrounding planetary nebulae in the LMC.	GMOS-S	6.5
GS-2009A-Q-59	Radomski	GS	Quantifying the Dusty Surroundings of Unobscured AGN with Mid-IR Observations	TReCS	12.7
GS-2009A-Q-60	Perrin	CA/UK/ US	Resolved Imaging of Two New Protoplanetary Disks around Young Fe stars	TReCS	3
GS-2009A-Q-61	Packham	US	High spatial resolution mid-infrared observations of LIRGs	TReCS	15
GS-2009A-Q-62	MAHAJAN	UK	The origin of starburst galaxies on the outskirts of galaxy clusters	GMOS-S	8.5
GS-2009A-Q-63	Lorenz Martins	BR	The Nature of Silicate Carbon Stars	TReCS	2.8
GS-2009A-Q-64	Lewis	UK	Sloan Lenses Unraveled by Gemini Studies (SLUGS)	GMOS-S	10
GS-2009A-Q-65	Lee	CA	An Optical Spectroscopic Study of YSOs around SNR G54.1+0.3	GMOS-S	21
GS-2009A-Q-66	Laycock	GS	X-ray Binaries, Cataclysmic variables and Stellar Coronae in the Galactic Bulge.	GMOS-S	20



GS-2009A-Q-67	Laycock	GS	New Variable Stars with 100 year Lightcurves in the Beehive Cluster.	GMOS-S	7.7
GS-2009A-Q-68	Kurtev	CL	Brown Dwarfs with Companions	Phoenix	20
GS-2009A-Q-69	Kobulnicky	US	Establishing the Missing Link: Validating New Transition/Debris Disk Objects	TReCS	12
GS-2009A-Q-70	Indriolo	US	Investigating the Cosmic-Ray Ionization Rate Near Supernova Remnants Using H $_3^+$	Phoenix	12
GS-2009A-Q-71	Goodall	UK	Long-slit Spectroscopy of SNR W50: Relativistic Jet-ISM Interactions and SNR Progenitor Chemistry.	GMOS-S	9.25
GS-2009A-Q-72	Gil-Hutton	AR	The size distribution of small Trans-Neptunian objects	GMOS-S	7.8
GS-2009A-Q-73	Gaensicke	UK	Preparing for large time-domain surveys: unravelling the nature of faint blue transients in SDSS	GMOS-S	2.7
GS-2009A-Q-74	Davidge	CA	Probing the RGB Content in the Outer UV disk of M83	NICI	13
GS-2009A-Q-75	Cuisinier	BR	Temperature Fluctuations in NGC 7009 from Paschen Jump	GMOS-S	5.5
GS-2009A-Q-76	Cruz	US	Confirming Cluster Membership for Nearby Young Brown Dwarfs	Phoenix	25
GS-2009A-Q-77	Crossfield	US	Thermal Emission from a Non-transiting Extrasolar Planet	Phoenix	14
GS-2009A-Q-78	Cook	US	Searching for Gaseous CO in Pluto's Atmosphere	Phoenix	20
GS-2009A-Q-79	Clowes	UK	Verifying a large-scale structure at $z \sim 2$	GMOS-S	8
GS-2009A-Q-80	Close	US	The First Thermal Images of the Planetary Mass Prototype Object 2M1207b: Does it have an Edge-On Disk?	TReCS	20
GS-2009A-Q-81	Borissova	CL	A hidden population of Ofpe/WR stars in newly discovered clusters GLIMPSE 30 and [DBS2003] 179	Phoenix	11
GS-2009A-Q-82	Bildfell	CA/UK	BCG Dynamics and Cluster Cores: Understanding a Symbiotic Relationship	GMOS-S	15.7
GS-2009A-Q-83	Bary	US	A Phoenix Variability Study of the He I 1.083 $\mu$ m Accretion/Outflow Signature in a 10 Myr T Tauri Star	Phoenix	7.6
GS-2009A-Q-84	Barrientos	CL	Mass calibration and gas physics for ACT SZ clusters	GMOS-S	10
GS-2009A-Q-85	Artigau	GS	GMOS spectroscopy of the first thick-disk T dwarf	GMOS-S	11.4