

Table of Contents

Preface	xviii
<i>C. Neiner and the SOC</i>	
Organizing committee	xx
Conference photograph	xxi
Conference participants	xxiii
Address by the Scientific and Local Organizing Committees	xxv
<i>C. Neiner</i>	

Part 1. OPENING THE SYMPOSIUM

Active OB Stars - an introduction	1
<i>D. Baade, T. Rivinius, S. Štefl, C. Martayan</i>	

Part 2. RAPID ROTATION AND MIXING IN ACTIVE OB STARS

Section A. Review and contributed talks

Chairs: Georges Meynet and Geraldine Peters

Rapid rotation and mixing in active OB stars – Physical processes	14
<i>J.-P. Zahn</i>	
Mixing of CNO-cycled matter in pulsationally and magnetically active massive stars	26
<i>N. Przybilla, M.-F. Nieva</i>	
3D MHD simulations of subsurface convection in OB stars	32
<i>M. Cantiello, J. Braithwaite, A. Brandenburg, F. Del Sordo, P. Kopyla, N. Langer</i>	
Rotation rates of massive stars in the Magellanic Clouds	38
<i>L. Penny, D. R. Gies</i>	
Interferometric studies of rapid rotators	44
<i>M. Zhao, J. D. Monnier, X. Che</i>	
Effects of fast rotation on the wind of Luminous Blue Variables	56
<i>J. H. Groh</i>	
Massive stellar models: rotational evolution, metallicity effects	62
<i>S. Ekström, C. Georgy, G. Meynet, A. Maeder, A. Granada</i>	
Testing models of rotating stars	73
<i>A. Potter, C. Tout</i>	
Discussion – Rapid rotation and mixing in active OB stars	79
<i>G. J. Peters, G. Meynet</i>	

Section B. Posters

Radiation driven winds with rotation: the oblate finite disc correction factor	83
<i>I. Araya, M. Curé, A. Granada, L. S. Cidale</i>	
Where do Be stars stand in the picture of rotational mixing?	85
<i>P. Dunstall, I. Brott, P. L. Dufton, C. J. Evans</i>	
About the Luminous Blue Variable He3-519	87
<i>A. Hervé, J.-C. Bouret</i>	
Results from a recent stellar rotation census of B stars	89
<i>W. Huang, D. R. Gies, M. V. McSwain</i>	
Mass and angular momentum loss of fast rotating stars via decretion disks.	91
<i>J. Krtićka, S. P. Owocki, G. Meynet</i>	
Mass loss in 2D rotating stellar models	93
<i>C. Lovekin, R. Deupree</i>	
Models of classical Be stars with gravity darkening	95
<i>M. McGill, T. A. A. Sigut, C. E. Jones</i>	
Mixing in two magnetic OB stars discovered by the MiMeS collaboration	97
<i>T. Morel</i>	
Evolutionary effects of stellar rotation of massive stars in their pre-supernova environments.	99
<i>B. Pérez-Rendón, H. Pineda-León, A. Santillán, L. Hernández-Cervantes</i>	
The Nitrogen Abundance in Be Stars Determined from UV Spectra	101
<i>G. Peters</i>	
Spectroscopic and interferometric approach for differential rotation in massive fast rotators	103
<i>J. Zorec, Y. Frémat, O. Delaa, A. Domiciano de Souza, P. Stee, D. Mourard, L. S. Cidale, C. Martayan</i>	

Part 3. WINDS AND MAGNETIC FIELDS OF ACTIVE OB STARS

Section A. Review and contributed talks

Chairs: Jean-Claude Bouret and Lydia Cidale

Observations of magnetic fields in hot stars.	106
<i>V. Petit</i>	
The MiMeS project: overview and current status	118
<i>G. A. Wade, E. Alecian, D. Bohlender, J.-C. Bouret, D. H. Cohen, V. Duez, M. Gagné, J. H. Grunhut, H. F. Henrichs, N. R. Hill, O. Kochukhov, S. Mathis, C. Neiner, M. E. Oksala, S. P. Owocki, V. Petit, M. Shultz, T. Rivinius, R. H. D. Townsend, J. S. Vink, the MiMeS collaboration</i>	
Modeling the magnetosphere of the B2Vp star σ Ori E.	124
<i>M. E. Oksala, G. A. Wade, R. H. D. Townsend, O. Kochukhov, S. P. Owocki</i>	

The rapid magnetic rotator HR 7355	130
<i>T. Rivinius, R. H. D. Townsend, S. Štefl, D. Baade</i>	
Structure in the winds of O-Type stars: observations and inferences	136
<i>A. W. Fullerton</i>	
Modeling the winds and magnetospheres of active OB stars	148
<i>R. H. D. Townsend</i>	
Dynamics of fossil magnetic fields in massive star interiors	160
<i>S. Mathis</i>	
Magnetic Doppler imaging of early-type stars	166
<i>O. Kochukhov, T. Rivinius, M. E. Oksala, I. Romanyuk</i>	
Discussion – Winds and magnetic fields of active OB stars	172
<i>J.-C. Bouret, L. S. Cidale</i>	
Section B. Posters	
Searching for massive star magnetospheres	176
<i>D. Bohlender, D. Morin</i>	
A family of stable configurations to model magnetic fields in stellar radiation zones	178
<i>V. Duez, J. Braithwaite, S. Mathis</i>	
The constant magnetic field of ξ^1 CMa: geometry or slow rotation?	180
<i>C. Fourtune-Ravard, G. A. Wade, W. L. F. Marcolino, M. Shultz, J. H. Grunhut, H. F. Henrichs, the MiMeS collaboration</i>	
Is the wind of the Oe star HD 155806 magnetically confined?	182
<i>A. W. Fullerton, V. Petit, S. Bagnulo, G. A. Wade, the MiMeS collaboration</i>	
The slow winds of A-type supergiants	184
<i>A. Granada, M. Curé, L. S. Cidale</i>	
Searching for magnetic fields in the descendants of massive OB stars.	186
<i>J. H. Grunhut, G. A. Wade, D. A. Hanes, E. Alecian</i>	
A MiMeS analysis of the magnetic field and circumstellar environment of the weak-wind O9 sub-giant star HD 57682	188
<i>J. H. Grunhut, G. A. Wade, W. L. F. Marcolino, V. Petit, the MiMeS collaboration</i>	
Discovery of the most rapidly-rotating, non-degenerate, magnetic massive star by the MiMeS collaboration	190
<i>J. H. Grunhut, G. A. Wade, T. Rivinius, W. L. F. Marcolino, R. H. D. Townsend, the MiMeS collaboration</i>	
The magnetic field of the B1/B2V star σ Lup	192
<i>H. F. Henrichs, K. Kolenberg, B. Plaggenborg, S. C. Marsden, I. A. Waite, G. A. Wade, the MiMeS collaboration</i>	
Rigid Field Hydrodynamic simulations of the magnetosphere of σ Orionis E	194
<i>N. R. Hill, R. H. D. Townsend, D. H. Cohen, M. Gagné</i>	

Magnetic fields of massive stars	196
<i>S. Hubrig, M. Curié, I. Ilyin, M. Schöller</i>	
Magnetic fluxes of massive stars: statistics and evolution.	198
<i>A. F. Kholtgyn, S. N. Fabrika, N. A. Drake, A. P. Igoshev</i>	
Line Profile microvariability and wind structure for OB stars	200
<i>A. F. Kholtgyn, S. N. Fabrika, N. Sudnik</i>	
The search for magnetic fields in mercury-manganese stars	202
<i>V. Makaganiuk, O. Kochukhov, N. Piskunov, S. V. Jeffers, C. M. Johns-Krull, C. U. Keller, M. Rodenhuis, F. Snik, H. C. Stempels and J. A. Valenti</i>	
Discovery of a strong magnetic field in the rapidly rotating B2Vn star HR 7355 .	204
<i>M. E. Oksala, G. A. Wade, W. L. F. Marcolino, J. H. Grunhut, D. Bohlender, N. Manset, R. H. D. Townsend, the MiMeS collaboration</i>	
τ Sco: the discovery of the clones	206
<i>V. Petit, D. L. Massa, W. L. F. Marcolino, G. A. Wade, R. Ignace, the MiMeS collaboration</i>	
Magnetic fields, winds and X-rays of massive stars in the Orion nebula cluster . .	208
<i>V. Petit, G. A. Wade, E. Alecian, L. Drissen, T. Montmerle, A. ud-Doula</i>	
Magnetism of the He-weak star HR 2949	210
<i>T. Rivinius, G. A. Wade, R. H. D. Townsend, M. Shultz, J. H. Grunhut, O. Stahl, the MiMeS collaboration</i>	
Searching for weak or complex magnetic fields in polarized spectra of Rigel	212
<i>M. Shultz, G. A. Wade, C. Neiner, N. Manset, V. Petit, J. H. Grunhut, E. Guinan, D. A. Hanes, the MiMeS collaboration</i>	
Line profiles of OB star winds using Monte Carlo method.	214
<i>B. Surlan, J. Kubát</i>	
Monte-Carlo simulations of linear polarization in clumpy OB-star winds.	216
<i>R. H. D. Townsend, N. Mast</i>	
Influence of decoupling effect on the stellar wind variability	218
<i>V. Votruba, K. Šejnová, P. Koubský, D. Korčáková</i>	
Of?p stars: a class of slowly rotating magnetic massive stars.	220
<i>G. A. Wade, J. H. Grunhut, W. L. F. Marcolino, F. Martins, I. D. Howarth, Y. Nazé, N. R. Walborn, the MiMeS collaboration</i>	
Magnetic fields in classical Be stars: results of our long-term program with FORS1 at the VLT	222
<i>R. V. Yudin, S. Hubrig, M. A. Pogodin, M. Schoeller</i>	
Measurements of magnetic fields in Herbig Ae/Be stars and stars with debris disks at the VLT 8-m telescope: statistical results of our long-term program	224
<i>R. V. Yudin, S. Hubrig, M. A. Pogodin, M. Schoeller, I. Ilyin</i>	

Part 4. POPULATIONS OF OB STARS IN GALAXIES

Section A. Review and contributed talks

Chairs: Hideyuki Saio and Gregg Wade

Massive stars in globular clusters: drivers of chemical and dynamical evolution	227
<i>T. Decressin</i>	
Populations of OB-type stars in galaxies	233
<i>C. J. Evans</i>	
Populations of Be stars: stellar evolution of extreme stars	242
<i>C. Martayan, T. Rivinius, D. Baade, A.-M. Hubert, J. Zorec</i>	
Infrared properties of active OB stars in the Magellanic Clouds from the Spitzer SAGE survey	254
<i>A. Z. Bonanos, D. J. Lennon, D. L. Massa, M. Sewilo, F. Koehlinger, N. Panagia, J. T. van Loon, C. J. Evans, L. J. Smith, M. Meixner, K. Gordon and the SAGE teams</i>	
The B[e] phenomenon in the Milky Way and Magellanic Clouds.	260
<i>A. S. Miroshnichenko, N. Manset, F. Polcaro, C. Rossi, S. Zharikov</i>	
Massive variable stars at very low metallicity?	265
<i>D. J. Bomans, K. Weis</i>	
Discussion – Populations of OB stars in galaxies	271
<i>G. A. Wade, H. Saio</i>	

Section B. Posters

Evolutionary studies of Be star: 28 Tau	274
<i>N. Ahmad, M. Z. Zainuddin, M. S. Yahya, P. P. Eggleton, H. L. Malasan</i>	
B stars in open clusters: fundamental parameters.	276
<i>Y. Aidelman, L. S. Cidale, J. Zorec, M. L. Arias</i>	
Analyzing the δ Sco binary in anticipation of a disk-star collision	278
<i>A. Ames, C. Tycner, R. Zavala</i>	
ArasBeam: when amateurs contribute to Be stars research	280
<i>F. Cochard, V. Desnoux, C. Buil</i>	
Spectrographs for small telescopes	282
<i>O. Thizy, F. Cochard</i>	
BeSS, the official Be Star Spectra database.	284
<i>B. de Batz, C. Neiner, M. Floquet, F. Cochard</i>	
Multicolour studies of β Cephei stars in the LMC.	286
<i>C. A. Engelbrecht, F. A. M. Frescura, S. L. Moonsamy</i>	
Statistical search for Be stars candidates in the Small Magellanic Cloud	288
<i>A. García-Varela, Beatriz Sabogal, R. E. Mennickent</i>	

Spectroscopic H α and H γ survey of field Be stars: 2004-2009	290
<i>E. D. Grundstrom, D. R. Gies, C. Aragona, T. S. Boyajian, E. V. Garcia, A. N. Marsh, M. V. McSwain, R. M. Roettenbacher, S. J. Williams, D. W. Wingert</i>	
Are the stellar winds in IC 1613 stronger than expected?	292
<i>A. Herrero, M. Garcia, K. Uytterhoeven, F. Najarro, D. J. Lennon, S. Simón-Díaz, N. Castro, J. Puls, J. S. Vink, M. A. Urbaneja, A. de Koter</i>	
Photometric and spectroscopic study of candidate Be stars in the Magellanic Clouds	294
<i>P. KT, A. Subramaniam, B. Mathew, R. E. Mennickent, B. Sabogal</i>	
The VLT-FLAMES Tarantula survey.	296
<i>D. J. Lennon, C. J. Evans, N. Bastian, Y. Beletsky, I. Brott, M. Cantiello, G. Carraro, J. S. Clark, P. A. Crowther, A. de Koter, S. E. de Mink, P. L. Dufton, P. Dunstall, M. Gieles, G. Gräfener, V. Henault-Brunet, A. Herrero, I. D. Howarth, N. Langer, J. Maíz Apellániz, N. Markova, F. Najarro, J. Puls, H. Sana, S. Simón-Díaz, S. J. Smartt, V. E. Stroud, W. D. Taylor, J. T. van Loon, J. S. Vink, N. R. Walborn</i>	
Variability of young massive stars in the Arches cluster.	298
<i>K. Markakis, A. Z. Bonanos, G. Pietrzynski, L. Macri, K. Z. Stanek</i>	
Massive Oe/Be stars at low metallicity: candidate progenitors of long GRBs? . .	300
<i>C. Martayan, D. Baade, J. Zorec, Y. Frémat, J. Fabregat, S. Ekström</i>	
IR mass loss rates of LMC and SMC O stars	302
<i>D. L. Massa, A. W. Fullerton, D. J. Lennon, R. K. Prinja</i>	
A statistical study of galactic bright Be stars	304
<i>A. S. Miroshnichenko</i>	
The e-MERLIN Cyg OB2 radio survey (COBRaS).	306
<i>R. K. Prinja and D. Fenech</i>	
A spectroscopic study of Be-like variable stars in the Small Magellanic Cloud . .	308
<i>B. Sabogal, A. García-Varela, R. E. Mennickent</i>	
The IACOB spectroscopic database of galactic OB stars.	310
<i>S. Simón-Díaz, N. Castro, M. Garcia, A. Herrero</i>	

Part 5. CIRCUMSTELLAR ENVIRONMENT OF ACTIVE OB STARS

Section A. Review and contributed talks

Chairs: Douglas Gies and Richard Townsend

Observations of circumstellar disks.	313
<i>P. Stee</i>	
The circumstellar discs of Be stars	325
<i>A. C. Carciofi</i>	
Spatially resolving the wind and disk structures around active B-type stars	337
<i>C. Tycner</i>	

High spatial resolution monitoring of the activity of BA supergiant winds	342
<i>O. Chesneau, L. Dessart, A. Kaufer, D. Mourard, O. Stahl, R. K. Prinja, S. P. Owocki</i>	
X-ray spectral diagnostics of activity in massive stars	348
<i>D. H. Cohen, E. E. Wollman, M. A. Leutenegger</i>	
Activity of Herbig Be stars and their environment	354
<i>E. Alecian</i>	
Dust formation of Be stars with large infrared excess.	366
<i>C.-D. Lee, W.-P. Chen</i>	
Nebulae around Luminous Blue Variables – large bipolar variety	372
<i>K. Weis</i>	
Discussion – Circumstellar environment of active OB stars	378
<i>D. R. Gies, R. H. D. Townsend</i>	
Section B. Posters	
Spectral variation of BU Tau	380
<i>K. Annuk</i>	
FRACS: modelling of the dust disc of the B[e] CPD-57° 2874 from VLTI/MIDI data	382
<i>P. Bendjoya, A. Domiciano de Souza, G. Nicolini</i>	
The circumstellar environment of the FS CMa star IRAS 00470+6429	384
<i>A. C. Carciofi, A. S. Miroshnichenko, J. E. Bjorkman</i>	
Analysis of the Balmer discontinuity behavior of Be stars by Monte Carlo method	386
<i>A. Cruzado</i>	
Disk-loss and disk-renewal phases in classical Be stars – II. Detailed analysis of spectropolarimetric data	388
<i>Z. H. Draper, J. P. Wisniewski, K. S. Bjorkman, J. E. Bjorkman, X. Haubois, A. C. Carciofi, M. R. Meade</i>	
Infrared continuum sizes of Be star disks.	390
<i>D. R. Gies, Y. N. Touhami, G. H. Schaefer</i>	
K- and L-band spectroscopy of Be stars	392
<i>A. Granada, M. L. Arias, L. S. Cidale, R. E. Mennickent</i>	
Investigating the continuum linear polarization of Be stars	394
<i>R. J. Halonen, F. E. Mackay, C. E. Jones, T. A. A. Sigut</i>	
The dynamical evolution of Be star disks	396
<i>X. Haubois, A. C. Carciofi, A. T. Okazaki, J. E. Bjorkman</i>	
Probing Be star disks: new insights from H α spectroscopy and detailed numerical models	398
<i>C. E. Jones, C. Tycner, J. Silaj, A. Smith, T. A. A. Sigut</i>	
The inhomogeneous wind of the LBV candidate Cyg OB2 No.12	400
<i>V. G. Klochkova, E. L. Chentsov, A. S. Miroshnichenko</i>	

Hydrodynamical simulations of Pinwheel nebula WR 104	402
<i>A. Lamberts, S. Fromang, G. Dubus</i>	
Near-infrared excess and emission characteristics of classical Be stars	404
<i>C.-D. Lee, W.-P. Chen, D. Kinoshita</i>	
Resolving the dusty circumstellar environment of the A[e] supergiant HD62623 with the VLTI/MIDI	406
<i>A. Meilland, S. Kanaan, M. Borges Fernandes, O. Chesneau, F. Millour, P. Stee, B. Lopez</i>	
Imaging "Pinwheel" nebulae with optical long-baseline interferometry.....	408
<i>F. Millour, T. Driebe, J. H. Groh, O. Chesneau, G. Weigelt, A. Liermann, A. Meilland</i>	
Images of unclassified and supergiant B[e] stars disks with interferometry.....	410
<i>F. Millour, A. Meilland, O. Chesneau, M. Borges Fernandes, J. H. Groh, T. Driebe, A. Liermann, G. Weigelt</i>	
Properties of the circumstellar dust in galactic FS CMa objects	412
<i>A. S. Miroshnichenko, R. O. Gray, K. S. Bjorkman, R. J. Rudy, D. K. Lynch, A. C. Carciofi</i>	
Variability monitoring of OB stars during the Mons campaign	414
<i>T. Morel, G. Rauw, T. Eversberg, F. Alves, W. Arnold, T. Bergmann, N. G. Correia Viegas, R. Fahed, A. Fernando, L. F. Gouveia Carreira, T. Hunger, J. H. Knapen, R. Leadbeater, F. Marques Dias, A. F. J. Moffat, N. Reinecke, J. Ribeiro, N. Romeo, J. Sánchez Gallego, E. M. dos Santos, L. Schanne, O. Stahl, B. Stober, B. Stober, K. Vollmann, M. F. Corcoran, S. M. Dougherty, K. Hamaguchi, J. M. Pittard, A. M. T. Pollock, P. M. Williams</i>	
Effect of Be-disk evolution on the global one-armed oscillations	416
<i>F. Oktariani, A. T. Okazaki</i>	
Spectrally and spatially resolved H α emission from Be stars: their disks rotate Keplerian.....	418
<i>R. D. Oudmaijer, H. E. Wheelwright, A. C. Carciofi, J. E. Bjorkman, K. S. Bjorkman</i>	
H α spectropolarimetry of GG Car	420
<i>A. Pereyra, F. X. de Araújo, A. M. Magalhães, M. Borges Fernandes, A. Domiciano de Souza</i>	
The spectral variations of MWC 314	422
<i>C. Rossi, A. Frasca, E. Marilli, M. Friedjung, G. Muratorio</i>	
Multi-epoch interferometric observations of the Be star ζ Tau.....	424
<i>G. H. Schaefer, D. R. Gies, J. D. Monnier, N. D. Richardson, Y. N. Touhami, M. Zhao</i>	
Spectral synthesis for Be stars	426
<i>T. A. A. Sigut</i>	
Do the γ Cas X-rays come from the Be Star?	428
<i>M. A. Smith, R. Lopes de Oliveira</i>	

The 2008+ outburst of the Be star 28 CMa – a multi-instrument study	430
<i>S. Štefl, A. C. Carciofi, D. Baade, T. Rivinius, S. Otero, J.-B. Le Bouquin, J. Fabregat, A. T. Okazaki, F. Rantakyrö</i>	

Part 6. PERIODIC VARIATIONS AND ASTEROSEISMOLOGY OF OB STARS

Section A. Review and contributed talks

Chairs: Juan Fabregat and Thomas Rivinius

Asteroseismic observations of OB stars	433
<i>P. De Cat, K. Uytterhoeven, J. Gutiérrez-Soto, P. Degroote, S. Simón-Díaz</i>	
Pulsations in Wolf-Rayet stars: observations with MOST	445
<i>A.-N. Chené, A. F. J. Moffat</i>	
Short-term variations in Be stars observed by the CoRoT and Kepler space missions	451
<i>J. Gutiérrez-Soto, C. Neiner, J. Fabregat, A. F. Lanza, T. Semaan, M. Rainer, E. Poretti</i>	
Seismic modelling of OB stars	457
<i>M.-A. Dupret, M. Godart, K. Belkacem, A. Noels</i>	
Radial and nonradial oscillations of massive supergiants	468
<i>H. Saio</i>	
The multiplicity of massive stars	474
<i>H. Sana, C. J. Evans</i>	
Evolutionary models of binaries	486
<i>W. van Rensbergen, N. Mennekens, J.-P. de Greve, K. Jansen, B. de Loore</i>	
Discussion – Periodic variations and asteroseismology of active OB stars	492
<i>T. Rivinius, J. Fabregat</i>	

Section B. Posters

Very massive binaries in R136	497
<i>A.-N. Chené, O. Schnurr, P. A. Crowther, E. F. Lajus, A. F. J. Moffat</i>	
Using the orbiting companion to trace WR wind structures in the 29d WC8d + O8-9IV binary CV Ser	499
<i>A. David-Uraz, A. F. J. Moffat</i>	
Spectroscopic follow-up of the colliding-wind binary WR140 during the 2009 January periastron passage	501
<i>R. Fahed, A. F. J. Moffat, J. Zorec, T. Eversberg, A.-N. Chené, F. Alves, W. Arnold, T. Bergmann, L. F. Gouveia Carreira, F. Marques Dias, A. Fernando, J. Sanchez Gallego, T. Hunger, J. H. Knapen, R. Leadbeater, T. Morel, G. Rauw, N. Reinecke, J. Ribeiro, N. Romeo, E. M. dos Santos, L. Schanne, O. Stahl, B. Stober, B. Stober, N. G. Correia Viegas, K. Vollmann, M. F. Corcoran, S. M. Dougherty, J. M. Pittard, A. M. T. Pollock, P. M. Williams</i>	

Pulsations in massive stars: effect of the atmosphere on the strange mode pulsations	503
<i>M. Godart, M.-A. Dupret, A. Noels, C. Aerts, S. Simón-Díaz, K. Lefever, J. Puls, J. Montalbán, P. Ventura</i>	
Non-radial pulsations in the Be/X binaries 4U 0115+63 and SAX J2103.5+4545.	505
<i>J. Gutiérrez-Soto, P. Reig, J. Fabregat, L. Fox-Machado</i>	
Non-radial pulsations in the CoRoT Be Star 102761769.	507
<i>E. Janot Pacheco, L. B. P. de Andrade, M. Emilio, J. Carlos Suárez, A. Jendrieck</i>	
Asteroseismology and rotation in the main sequence	509
<i>A. Jendrieck, E. Janot Pacheco, L. B. P. de Andrade, J. Carlos Suárez</i>	
The WR/LBV system HD 5980: wind-velocity - brightness correlations.	511
<i>G. Koenigsberger, L. Georgiev, D. J. Hillier, N. Morrell, R. Barbá, R. Gamen</i>	
Line profile variability and tidal flows in eccentric binaries	513
<i>G. Koenigsberger, E. Moreno, D. M. Harrington</i>	
Fundamental parameters of 4 massive eclipsing binaries in Westerlund 1	515
<i>E. Koumpia and A. Z. Bonanos</i>	
The nature of the light variations of chemically peculiar stars CU Vir and HD 64740	517
<i>J. Krtička, H. Marková, Z. Mikulášek, T. Lüftinger, D. Bohlender, J. Zverko, J. Žižňovský</i>	
Long-term spectroscopic monitoring of LBVs and LBV candidates	519
<i>A. Lobel, J. H. Groh, K. Torres, N. Gorlova</i>	
HD 150136: towards one of the most massive systems?	521
<i>L. Mahy, E. Gosset, H. Sana, G. Rauw, T. Faucher, C. Nitschelm</i>	
The spectroscopic orbits and physical parameters of GG Car	523
<i>P. E. Marchiano, E. Brandi, M. F. Muratore, C. Quiroga, O. Ferrer, L. García</i>	
H α emission variability in the γ -ray binary LSI +61 303.	525
<i>M. V. McSwain, E. D. Grundstrom, D. R. Gies, P. S. Ray</i>	
Optical spectroscopy of DPVs and the case of LP Ara	527
<i>R. E. Mennickent, D. Graczyk, Z. Kołaczowski, G. Michalska, D. Barría, E. Niemczura</i>	
An OB-type eclipsing binary system ALS 1135	529
<i>G. Michalska, E. Niemczura, M. Steslicki, A. Williams</i>	
Fast rotating stars resulting from binary evolution will often appear to be single	531
<i>S. E. de Mink, N. Langer, R. G. Izzard</i>	
Emission features in a B[e] binary system V2028 Cyg.	533
<i>J. Polster, D. Korčáková, V. Votruba, P. Škoda, M. Šlechta, B. Kučerová</i>	
The effects of μ gradients on pulsations of rapidly rotating stars	535
<i>D. R. Reese, F. Espinosa Lara, M. Rieutord</i>	

Multiplicity in 5 M_{\odot} stars	537
<i>N. Remage Evans</i>	
Masses of the astrometric SB2 ζ Ori A	539
<i>T. Rivinius, C. A. Hummel, O. Stahl</i>	
The resonant B1II + B1II binary BI 108	541
<i>T. Rivinius, R. E. Mennickent, Z. Kołaczowski</i>	
The (B0+?)+O6 system FNCMa: a case for tidal-pulsational interaction?	543
<i>T. Rivinius, O. Stahl, S. Štefl, D. Baade, R. H. D. Townsend, L. Barrera</i>	
Light curves of the Be stars of NGC 3766	545
<i>R. M. Roettenbacher, M. V. McSwain</i>	
Spectral and photometric study of Be Stars in the first exoplanet fields of CoRoT	547
<i>T. Semaan, C. Martayan, Y. Frémat, A.-M. Hubert, J. Gutiérrez-Soto, C. Neiner, J. Zorec</i>	
Is macroturbulence in OB Sgs related to pulsations?	549
<i>S. Simón-Díaz, A. Herrero, K. Uytterhoeven, N. Castro, C. Aerts, J. Puls</i>	
SC3-63371 and SC4-67145: two wind-interacting A+B binaries.	551
<i>M. A. Smith, R. E. Mennickent</i>	

Part 7. 'NORMAL' AND ACTIVE OB STARS AS EXTREME CONDITION TEST BEDS

Section A. Review and contributed talks

Chairs: Marc Gagné and Eduardo Janot Pacheco

OB-stars as extreme condition test beds	554
<i>J. Puls, J. O. Sundqvist, J. G. Rivero González</i>	
Fundamental parameters of "normal" B stars in the solar neighborhood	566
<i>M.-F. Nieva, N. Przybilla</i>	
Eruptive outflow phases of massive stars	571
<i>N. Smith</i>	
Massive stars at (very) high energies: γ -ray binaries.	581
<i>G. Dubus, B. Cerutti</i>	
Modeling TeV γ -rays from LS 5039: an active OB star at the extreme	587
<i>S. P. Owocki, A. T. Okazaki, G. Romero</i>	
Discussion – Normal and active OB stars as extreme condition test beds	593
<i>M. Gagné, E. Janot Pacheco</i>	

Section B. Posters

Ion fractions and the weak wind problem	600
<i>M. J. Austin, R. K. Prinja</i>	
Investigation of X-ray transient CI Cam as an unique star with the B[e] phenomenon	602

<i>E. A. Barsukova, A. N. Burenkov, V. G. Klochkova, V. P. Goranskij, N. V. Metlova, P. Kroll, A. S. Miroshnichenko</i>	
η Carinae long-term variability	604
<i>A. Damineli, M. Teodoro, M. F. Corcoran, J. H. Groh</i>	
Searching for emission line and OB stars in Cl 1806-20 using a NIR narrow-band technique	606
<i>M. L. Edwards, R. M. Bandyopadhyay, S. S. Eikenberry, V. J. Mikles, D.-S. Moon</i>	
The Chandra survey of Carina OB stars	608
<i>M. Gagné, G. Fehon, M. R. Savoy, D. H. Cohen, L. K. Townsley, P. S. Broos, M. S. Povich, M. F. Corcoran, N. R. Walborn, A. F. J. Moffat, Y. Nazé, L. M. Oskinova</i>	
H $_{\alpha}$ 19 in the galaxy M 33, a high-luminosity massive merging eclipsing binary. . .	610
<i>V. P. Goranskij, E. Bersukova</i>	
The mysterious high-latitude O-star HD 93521: new results from XMM-Newton observations	612
<i>G. Rauw, T. Morel</i>	
X-ray emission from hydrodynamical wind simulations in non-LTE models.	614
<i>J. Krtička, A. Feldmeier, L. M. Oskinova, J. Kubát, W.-R. Hamann</i>	
High-angular resolution observations of the Pistol star.	616
<i>C. Martayan, R. Blomme, J.-B. Le Bouquin, A. Merand, G. Montagnier, F. Selman, J. Girard, A. Fox, D. Baade, Y. Frémat, A. Lobel, F. Martins, F. Patru, T. Rivinius, H. Sana, S. Štefl, J. Zorec, T. Semaan</i>	
Optical spectroscopic observations of the Be/X-Ray binary A0535+262/V725 Tau during the giant outburst in 2009.	618
<i>Y. Moritani, D. Nogami, A. T. Okazaki, A. Imada, E. Kambe, S. Honda, O. Hashimoto, K. Ichikawa</i>	
Determination of fundamental parameters and circumstellar properties for a sample of B[e] stars.	620
<i>M. F. Muratore, L. S. Cidale, M. L. Arias, J. Zorec, A. F. Torres</i>	
Overall properties of hot, massive stars in the X-ray domain	622
<i>Y. Nazé</i>	
The surprising X-ray emission of Oe stars	624
<i>Y. Nazé, G. Rauw, A. ud-Doula</i>	
The latest developments on Of?p stars	626
<i>Y. Nazé, A. ud-Doula, M. Spano, G. Rauw, M. De Becker, N. R. Walborn</i>	
Interaction between the Be star and the compact companion in TeV γ -ray binaries	628
<i>A. T. Okazaki, S. Nagataki, T. Naito, A. Kawachi, K. Hayasaki, S. P. Owocki, J. Takata</i>	
X-Ray modeling of η Carinae & WR 140 from SPH simulations	630
<i>C. M. P. Russell, M. F. Corcoran, A. T. Okazaki, T. I. Madura, S. P. Owocki</i>	

Uniqueness and evolutionary status of MWC 349A	632
<i>V. Strel'nitski, K. Schwarz, J. Biegging, J. T. Fuchs, G. Walker</i>	
Interferometric survey of Be stars with the CHARA array	634
<i>Y. N. Touhami, D. R. Gies, G. H. Schaefer, N. D. Richardson, S. J. Williams, E. D. Grundstrom, M. V. McSwain</i>	
γ -ray production via IC scattering of the infrared excess from the Be-type star in the binary system PSR B1259-63/SS2883	636
<i>B. van Soelen, P. J. Meintjes</i>	
Non-thermal radio emission from colliding-wind binaries: modelling Cyg OB2 No. 8A and No. 9	638
<i>D. Volpi, R. Blomme, M. De Becker, G. Rauw</i>	

Part 8. LAST MINUTE CONTRIBUTION

Equatorial mass loss from Be stars	640
<i>C. Georgy, S. Ekström, A. Granada, G. Meynet</i>	

Part 9. CLOSING THE SYMPOSIUM

Concluding Remarks	642
<i>A. Maeder</i>	
Author index	652
Object index	657
Subject index	663