

# Selma E. de Mink

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## Research Positions

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- Nov. 2010-present **Hubble Fellow / Visiting Scientist**  
Space Telescope Science Institute (STScI) & Johns Hopkins University (JHU), Baltimore, MD, USA
- June - Nov 2010 **Argelander Postdoctoral Fellow**  
Argelander-Institut für Astronomie der Universität Bonn, Germany
- 2006–2010 **Postdoctoral Researcher** (2010, April–June) and **PhD Student** (2006–2010)  
Thesis: Stellar evolution at low metallicity under the influence of binary interaction and rotation  
Utrecht University, The Netherlands (NL), Supervisor: Dr. O.R. Pols; Promotor: Prof. Dr N. Langer
- June-Sept. 2004 **Research Intern**  
Thesis: The transparency of galaxies: from the ultra violet to the near infrared  
Instituto d'Astrofísica de Canarias, Tenerife, Spain, Supervisors: Dr. M. Balcells and Dr. A. Graham

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## Educational Degrees

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- Faculteit Natuur- en Sterrenkunde, Utrecht University, The Netherlands
- 2006-2010 • PhD, Astrophysics, April 2010, *Cum Laude*
- 2000-2005 • MSc, Astrophysics, Oct. 2005, *Cum Laude*
- BSc, Physics, Oct. 2005, *Cum Laude*
- BSc, Mathematics, Sep. 2005, *Cum Laude*

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## Fellowships, Awards and Prizes

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- 2010 NASA's postdoctoral Hubble fellowship
- 2010 ESO Fellowship (declined in favor of the Hubble Fellowship)
- 2004-2010 Various grants from various Dutch (private) funding sources (Olga Konings Fonds, Kapteyn Fonds, Erasmus Beurs, Leidsch Kerkhoven Bosscha Fonds) ~ € 6,000
- 2006-2010 Travel grants from Joint Institute for Nuclear Astrophysics (JINA), International Astronomical Union (IAU) and European Southern Observatory (ESO) ~ \$ 3,000
- 2005 Poster prize, Dutch national astronomy conference
- 2004 Instituto d'Astrofísica de Canarias grant for summer students
- 2003 Scholarship to attend a summer school at Universidad Complutense, Madrid, Spain
- 2001-2003 Utrecht University scholarship for student representatives
- 2001 Cum laude propedeuse Physics and Astronomy (propaedeutic honors diploma)
- 2001 Cum laude propedeuse Mathematics (propaedeutic honors diploma)
- 2001 Dutch inter-university physics team competition, PION, second place
- 2000 Award from the Dutch Science Education Association for high grades in physics
- 2000 Honorary Mention, XXXI International Physics Olympiad, Leicester, UK
- 2000 Dutch National Physics Olympiad, 5<sup>th</sup> place The Netherlands

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## Selected Invited Reviews, Colloquia, Seminars, and talks

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- To be held June 2013 Invited Talk, Conference "Massive Stars: Alpha to Omega", Rhodes, Greece
- Scheduled Dec 2012 Colloquium Astronomisches Rechen-Institut, Universität Heidelberg, Germany
- Scheduled Jan 2013 Invited Colloquium: University of Florida, Gainesville
- Scheduled Jan 2013 Invited Colloquium: University of Maryland
- Scheduled Feb 2012 Invited Colloquium: Université de Montréal

Oct 2012	Invited Colloquium, University of Minnesota, Minneapolis, MN
Oct 2012	Contributed Talk, "Outstanding Problems in Massive Star Research, St Paul, MN"
Sept 2012	Contributed Talk, "30 Dor the Starburst Next Door", Baltimore, Md
July 2012	Contributed Talk, "Massive stars and Gamma-ray bursts, Aspen, Co
April 2012	Invited Seminar, Theoretical Astrophysics Center, University of California, Berkeley, CA
March 2012	Invited Colloquium, <b>Dep. of Astrophysical Sciences, Princeton University</b> , Princeton, NJ
March 2012	Invited Colloquium, Instituto d'Astrofisica de Canarias, Tenerife, Spain
Feb. 2012	Invited Seminar, Center for Cosmology and Particle Physics, New York University, New York, NY
Dec, 2011	Invited Talk, Lorentz Center meeting 'Modeling Dense Stellar systems', Leiden, NL
Oct. 2011	Invited Seminar, University of Delaware, Newark, DE
Sept 2011	Invited Talk, Kavli Institute for Theoretical Physics, UCSB, Santa Barbara, CA
Sept 2011	Invited Talk, North Western University, 'The Future of Astronomy' conference, Evanston, IL
March 2011	Invited Talk, Hubble Fellow symposium, Caltech, Pasadena, CA
April 2010	Invited Talk, Review Board meeting of the Netherlands School for Astronomy, Utrecht, NL
April, 2010	Invited Review, from Joint Institute for Nuclear Astrophysics "Building Virtual Galaxies", Lansing, MI
Sep 2009	Invited Talk, Lorentz Center meeting 'Stellar mergers', Leiden, NL
May 2009	Invited Seminar, University of Amsterdam, NL
April 2009	Invited Talk, European Week of Astronomy, Hatfield, UK

### Press releases

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July 2012	"The brightest stars don't live alone" for Sana & De Mink et al., Science 2012	ESO/STScI
Aug 2012	"Seeing double in 30 Doradus" for Sabbi et al. ApJL 2012	NASA/STScI
April 2012	"Hubble's 22nd anniversary image" for GO 12499	NASA/STScI
Dec 2011	"Fastest rotating star found in neighboring galaxy" for Dufton et al., ApJL 2011	ESO/STScI
Nov 2009	"Binaries primary suspects pollution star clusters" for de Mink et al., A&A 2009	NOVA
March 2009	"Massive black hole in M33 X-7 explained" for de Mink et al., A&A 2009	NOVA

NOVA = Netherlands school for astronomy, STScI = Space Telescope Science Institute

### Awarded Research Funding

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2010-2013	Hubble Fellowship grant (as PI)	\$ 319,000
2012-2017	Netherlands Organization for Scientific Research (as Co-I, PI: O.R. Pols)	~ € 250,000
2012	HST GO12939 (as Co-I, PI E. Sabbi, admin-PI R. van der Marel)	\$ 384,000
2012	HST GO13038 (as Co-I, PI A. Nota, admin-PI C. Christian)	\$ 46,000
2012	HST GO12915 (as Co-I, PI D. Lennon, admin-PI R. van der Marel)	\$ 117,000
2012	HST GO12011 (as Co-I, PI T. Puzia, admin-PI P. Goudfrooij)	\$ 59,000
2011	HST GO12499 (as Co-I, PI: D. Lennon, admin-PI R. van der Marel)	\$ 190,000
2011	HST GO12472 (as Co-I, PI: C. Leitherer)	\$ 156,000
2011	HST AR12642 (as Co-I, PI V. Kozhurina-Platais & A. Dotter)	\$ 128,000
2011	HST GO12465 (as Co-I, PI P. Crowther, admin-PI N. Walborn)	\$ 99,000

### Awarded Observing time

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#### Hubble Space Telescope (NASA/ESA)

2012	HSTP: Hubble Tarantula Treasury Project (GO12939, PI: E. Sabbi)	60 orbits
2012	Proper Motions of Massive Stars near the Galactic Center (GO12915, PI D. Lennon)	36 orbits
2012	Westerlund 2, top to bottom: how massive star clusters form (GO13038, PI A. Nota)	7 orbits
2012	Searching for prolonged star cluster formation in H alpha (GO12011, PI: Th. Puzia)	2 orbits
2011	Proper Motions of Massive Stars in 30 Doradus (GO12499, PI D. Lennon)	30 orbits
2011	CCC: The Cosmic Carbon Conundrum (GO12472, PI C. Leitherer)	29 orbits
2011	A Massive Star Census of the Starburst Cluster R136 (GO12465, PI P. Crowther)	9 orbits
2011	Multiple populations in stellar clusters (AR12642, PI V. Kozhurina-Platais & A. Dotter)	Archival

#### Very Large Telescope (ESO)

2012	Orbital solutions for >100 massive binaries in 30 Dor, (Flames, 090.D-0323, PI H. Sana)	31 hrs
2012	Massive YSOs in the periphery of R136 (Xshooter, 090.C-0346, PI L. Kaper)	16 hrs

2008	The VLT-FLAMES Tarantula Survey (82.D-0222, PI C. Evans, involved as cons. member)	94.5 hrs
	<b>Canadian French Hawaiian telescope (CFHT)</b>	
2012	BinaMIcS: Binarity and Magnetic Interactions in various classes of stars (ESPaDOs Large Program, PI Alecian, involved as cons. member)	606 hrs

### Teaching and Mentoring

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Since 2007	Mentoring & (Co-) supervision of graduate and undergraduate students <ul style="list-style-type: none"> <li>• C. Abate: "The formation of carbon-enhanced, metal-poor stars" (grad.)<sup>1</sup>, Jan. 2010 – now</li> <li>• J. Claeys: "Binary progenitor models for supernovae" (grad.)<sup>2</sup>, Sept 2009 – Aug. 2010</li> <li>• A. Hamers: "The properties of stellar mergers" (undergrad.)<sup>1,2</sup>, Sept. 2009 – Feb 2010</li> <li>• M. Verkoulen: "The most massive binaries" (undergrad.)<sup>1,2</sup>, Sept. 2007 – Aug. 2008</li> <li>• M. Cottaar: "Radii of accreting stars" (undergrad.)<sup>1,2</sup>, Jan 2007 – July 2007</li> </ul> <p><sup>1</sup> Formulated the research project, <sup>2</sup> Regular meetings at least every week</p>
2007-2009	Senior Teaching Assistant: Advanced Level Stellar Evolution (Development of new computer lab exercises including case studies, teaching lab sessions and exercise classes, grading)
2005	Student Assistant: providing support for the development of new interactive lectures freshman physics including quizzes and computer exercises
2003-2006	Teaching Assistant exercise and computer classes: Quantum Mechanics (2004), Advanced Thermal Physics (2005, 2006), Classical Mechanics (2003, 2004) and Optics (2003, 2004)
Jan. – March, 2006	Teacher Math and English (volunteer work) with minimal resources in a remote village in Guatemala
2001-2003	Education Advisory Committee, Member, Physics and Astronomy dep., Utrecht Univ.
July – Aug. 2001	Science Teacher: students w/ ethnic minority backgrounds and language deficiencies, Amsterdam, NL

### Selected Outreach activities

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Since 2009	Various interviews for (live) radio shows, newspapers, magazines and popular science websites US: Space.com, AAAS Science Update, Physics Today, Netherlands: National radio NOS/Radio 1, Teleac, Radio 2, Wereldomroep, Intermediair, Reformatorisch dagblad, tijdschrift Nederlandse Vereniging voor Onderwijs in de Natuurwetenschappen, tijdschrift stichting Carmel
2007-2012	Various public lectures for children and adults
2009	Member of the jury of an astronomy science project competition for high-school students
2007-2008	Organizer of the Dutch Astronomy Olympiad, a competition for high-school students
2001-2007	Visiting high schools, fairs and exhibitions representing Utrecht University

### Selected Professional and Service activities

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Since 2012	SOC member, Massive Stars: From Alpha to Omega, Rhodes (to be held July 2013)
Since 2012	Consortium Member: HTTP: Hubble Tarantula Treasury Survey (PI Sabbi)
Since 2012	Consortium Member BinaMIcS: Binarity and Magnetic Interactions in various classes of stars (PI Alecian)
Since 2012	Scientific Organizer, Space Telescope Science Institute colloquium series
2012	SOC member, STScI workshop '30 Dor, the starburst next door', Baltimore, Md
2011	SOC member, STScI workshop 'Intermediate Luminosity Transients', Baltimore, Md
2011	Seminar and Journal Club Organizer, Massive Stars and Starbursts group at STScI
Since 2010	Referee for the ApJ, ApJ Letters, A&A and MNRAS
Since 2008	Consortium Member: VLT-FLAMES Massive Stars Consortium, (PI Evans)
2007-2008	Organizer, Dutch Astronomy Olympiad
2006	Member Organizing Committee, Dutch National Astronomy conference, NL
2006	Member Organizing Committee, Mass loss from stars and the evolution of stellar clusters, NL
2006	Chair, SOC Astronomy Student Symposium, Utrecht University, NL
2001-2002	Treasurer and Board member, student representatives organization, Utrecht Univ., NL
1999	Search committee, student member: Geert Groote College, Deventer, NL
1997-1999	Participation council member: national school foundation 'Stichting Carmel College', NL
1996-2000	President (1998-1999) and board member student representatives, Geert Groote College, Deventer, NL

## Publications

### Refereed Publications (as first and second author)

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- “The incidence of mergers and other binary products among apparently single stars”, **S.E. de Mink**, H. Sana, N. Langer, R.G. Izzard, in prep. for ApJ Letters
- 1. “Rotation in massive main sequence stars: the role of binary interaction through tides, mass transfer and mergers”, recommended for publication in ApJ, arXiv:1211.3742, **S.E. de Mink**, N. Langer & R.G. Izzard
- 2. “Binary interaction dominates the evolution of massive stars”, *Science* 2012, 337, 444, H. Sana, **S.E. de Mink**, A. de Koter, N. Langer, C.J. Evans, M. Gieles, E. Gosset, R.G. Izzard, J.-B. Le Bouquin, F.R.N. Schneider.
- 3. “Resolved photometry of extragalactic young massive star clusters”, *A&A*, 532, 147, 2011, S.S. Larsen, **S.E. de Mink**, J.J. Eldridge, N. Langer, N. Bastian, A. Seth, L. J. Smith, J. Brodie, & Yu. N. Efremov.
- 4. “Rotating massive main-sequence stars. I. Grids of evolutionary models and isochrones”, *A&A*, 530, 115, 2011, I. Brott, **S.E. de Mink**, M. Cantiello, N. Langer, A. de Koter, C. J. Evans, I. Hunter C. Trundle & J. S. Vink.
- 5. “Binary progenitor models of type IIb supernovae”, *A&A* 528, 131, 2011, J.S.W. Claeys, **S. E. de Mink**, O.R. Pols, J.J. Eldridge, & M. Baes.
- 6. “Binaries are the best single stars”, Société Royale des Sciences de Liège (“refereed” proc.), 80, 543, 2011, **S. E. de Mink**, N. Langer, & R.G. Izzard.
- 7. “Massive binaries as the source of globular cluster abundance patterns”, *A&A, Letter*, 507, 1, 2009, **S.E. de Mink**, O.R. Pols, N. Langer & R.G. Izzard.
- 8. “The Effect of Stellar Rotation on Colour-Magnitude Diagrams: On the apparent presence of multiple populations in intermediate age stellar clusters”, *MNRAS Letters* 398, 2009 N. Bastian & **S.E. de Mink**.
- 9. “Rotational mixing in massive binaries: detached short-period systems”, *A&A* 497, 243, 2009, **S.E. de Mink**, M. Cantiello, N. Langer and O.R. Pols, I. Brott & S.-Ch Yoon.
- 10. “Fluorine in carbon-enhanced metal-poor stars: a binary scenario”, *A&A Letters*, 484, 27, 2008, M. Lugaro\*, **S.E. de Mink\***, R.G. Izzard, S.W. Campbell, A. I. Karakas, S. Cristallo, O.R. Pols, J.C. Lattanzio, O. Straniero, R. Gallino & T.C. Beers. \* Shared first authorship: the first two authors contributed equally to this paper.
- 11. “Efficiency of mass transfer in massive close binaries. Tests from double-lined eclipsing binaries in the SMC”, *A&A*, 467, 1181, 2007, **S.E. de Mink**, O.R. Pols, and R.W. Hilditch.

### Refereed Publications Continued (as co-author)

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- 12. “Stellar mass functions of young clusters reveal the most massive stars as binary products” submitted to *Nature* 2012, F. R.N. Schneider, R. G. Izzard, **S. E. de Mink**, N. Langer, A. Stolte, A. de Koter, V. V. Gvaramadze, B. Hußmann, A. Liermann and H. Sana”.
- 13. “Wind Roche-lobe Overflow and the formation of Carbon Enhanced Metal-poor Stars”, submitted to *A&A*, C. Abate, O. R. Pols, R. G. Izzard, S. S. Mohamed, & **S. E. de Mink** (preprint available at <http://www.selmademink.com/preprints/>)
- 14. “The VLT-FLAMES Tarantula Survey: Rotational velocities of the single B-type stars in the Tarantula Nebula”, *A&A* in press, P.L. Dufton, P.R. Dunstall, C.J. Evans, I. Brott, **S. E. de Mink**, M. Kennedy, C. McEvoy, H. A. T. Potter, O.H. Ramirez-Agudelo, H. Sana, S. Simon-Diaz & W. Taylor (preprint available at <http://www.selmademink.com/preprints/>)

15. “Detection of a magnetic field in the rapidly-rotating O-type secondary of the colliding-wind binary HD 47129 (Plaskett’s star)”, *ApJ* in press (arXiv:1209.6326), J. Grunhut, G.A. Wade, M. Leutenegger, V. Petit, G. Rauw, C. Neiner, F. Martins, D. Cohen, M. Gagne, R. Ignace, **S. E. de Mink**, A.F.J. Moffat, S. Owocki, M. Shultz, J. Sundqvist, & the MiMeS Collaboration
16. “The VLT-FLAMES Tarantula Survey VIII. Multiplicity properties of the O-type star population”, *A&A* 2012 in press (arXiv:1209.4638), H. Sana, A. de Koter, **S.E. de Mink**, P.R. Dunstall, C.J. Evans, V. Hénault-Brunet, J. Maíz Apellaniz, O.H. Ramírez-Agudelo, W.D. Taylor, N.R. Walborn, J.S. Clark, P.A. Crowther, A. Herrero, M. Gieles, N. Langer, D.J. Lennon & J.S. Vink
17. “A double cluster at the core of 30 Doradus”, *ApJ Letters* 2012, 754, L37, E. Sabbi, D.J. Lennon, M. Gieles, **S.E. de Mink**, N.R. Walborn, J. Anderson, A. Bellini, N. Panagia, R. van der Marel & J. Maíz Apellaniz
18. “The Effects of Differential Reddening and Stellar Rotation on the Appearance of Multiple Populations in Star Clusters: The Case of Trumpler 20”, *ApJ Letters*, 751, 8, 2012, I. Platais, C. Melo, S.N. Quinn, J.L. Clem, **S.E. de Mink**, A. Dotter, V. Kozhurina-Platais, D.W. Latham, & A. Bellini.
19. “The VLT-FLAMES Tarantula Survey: The Fastest Rotating O-type Star and Shortest Period LMC Pulsar—Remnants of a Supernova Disrupted Binary?” *ApJ Letters*, 743, L22, 2011, P.L. Dufton, P.R. Dunstall, C.J. Evans, I. Brott, M. Cantiello, A. de Koter, **S. E. de Mink**, M. Fraser, V. Hénault-Brunet, I.D. Howarth, N. Langer, D.J. Lennon, N. Markova, H. Sana, W.D. Taylor.
20. “The VLT-FLAMES Tarantula Survey. II. R139 revealed as a massive binary system”, *A&A*, 530, 10, 2011, W.D. Taylor, C.J. Evans, H. Sana, N.R. Walborn, **S. E. de Mink**, V.E. Stroud, A. Alvarez-Candal, R.H. Barbá, J. M. Bestenlehner, A.Z. Bonanos, I. Brott, P.A. Crowther, A. de Koter, K. Friedrich, G. Gräfener, V. Hénault-Brunet, A. Herrero, L. Kaper, N. Langer, D.J. Lennon, J. Maíz Apellániz, N. Markova, N. Morrell, L. Monaco, J.S. Vink.
21. “The VLT-FLAMES Tarantula Survey. I. Introduction and observational overview”, *A&A* 530, 108, 2011, C. J. Evans, W.D. Taylor, V. Hénault-Brunet, H. Sana, A. de Koter, S. Simón-Díaz, G. Carraro, T. Bagnoli, N. Bastian, J.M. Bestenlehner, A.Z. Bonanos, E. Bressert, I. Brott, M.A. Campbell, M. Cantiello, J.S. Clark, E. Costa, P.A. Crowther, **S. E. de Mink**, E. Doran, P.L. Dufton, P. R. Dunstall, K. Friedrich, M. Garcia, M. Gieles, G. Gräfener, A. Herrero, I.D. Howarth, R.G. Izzard, N. Langer, D.J. Lennon, J. Maíz Apellániz, N. Markova, F. Najarro, J. Puls, O.H. Ramírez, C. Sabín-Sanjulián, S.J. Smartt, V.E. Stroud, J.Th van Loon, J.S. Vink & N.R. Walborn.
22. “Rotating massive main-sequence stars. II. Simulating a population of LMC early B-type stars as a test of rotational mixing”, *A&A* 530, A116, 2011, I. Brott, C.J. Evans, I. Hunter, A. de Koter, N.Langer, P.L. Dufton, M. Cantiello, C. Trundle, D.J. Lennon, **S.E. de Mink**, S.-Ch. Yoon & P. Anders.
23. “The Mystery of CEMP-s + r stars and the Dual Core Flash Neutron Superburst”, *Publications of the Astronomical Society of Australia*, 26, Issue 3, 322, 2009, M. Lugaro, S. W. Campbell & **S.E. de Mink**
24. “The evolution of runaway stellar collision products”, *A&A*, 497, 255, 2009, E. Glebbeek, E. Gaburov, **S.E. de Mink**, O.R. Pols, & S.F. Portegies Zwart.

### Conference proceedings (as first author)

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25. "Challenges for understanding the evolution of massive stars: rotation, binarity and mergers", **S.E. de Mink**, I. Brott, M. Cantiello, R.G. Izzard, N. Langer, and H. Sana, to appear in the ASP conference series.
26. "Hunting for Shooting Stars in 30 Doradus", AAS 219, 151.13, 2012, Hunting for Shooting Stars in 30 Doradus, **S.E. de Mink**, D. J. Lennon, E. Sabbi, J. Anderson, L.R. Bedin, T. Sohn, R.P. van der Marel, N.R. Walborn, N. Bastian, E. Bressert, P.A. Crowther, C.J. Evans, A. Herrero, N. Langer, I. Platais, A. de Koter, H. Sana.
27. "Fast rotating stars resulting from binary evolution will often appear to be single", IAU Symposium 272, 531, **S.E. de Mink**, N. Langer, R.G. Izzard
28. "Rotational mixing in tidally-locked, massive main-sequence binaries", Comm. In Asteroseismology, 158, 2009, **S.E. de Mink**, M. Cantiello, N. Langer and O.R. Pols. (Refereed)
29. "Massive binaries and the enrichment of the interstellar medium in globular clusters", IAU Symposium 266, "Star Clusters - Basic Galactic Building Blocks throughout Time and Space", 10-14 August 2009, Rio de Janeiro, Brazil, **S.E. de Mink**, O.R. Pols, N. Langer, and R.G. Izzard
30. "A new evolutionary scenario for the formation of massive black-hole binaries such as M33 X-7 and IC 10 X-1", 2009, proceedings of "Binaries - key to comprehension of the universe", Brno, Czech Republic, June 8-12, **S.E. de Mink**, M. Cantiello, N. Langer, O.R. Pols, and S.-Ch. Yoon
31. "Rotational mixing in close binaries", IAU Symposium, 252, 365, 2008, **S.E. de Mink**, M. Cantiello, N. Langer, S.-Ch. Yoon, I. Brott, E. Glebbeek, M. Verkoulen, and O.R. Pols
32. "Binaries at Low Metallicity: Ranges For Case A, B and C Mass Transfer", First Stars III, 990, 230, 2008, **S.E. de Mink**, O.R. Pols, and S.-C. Yoon
33. "Can Low-Metallicity Binaries Avoid Merging?", First Stars III, 990, 217, 2008, **S.E. de Mink**, M. Cottaar, and O.R. Pols
34. "Critically-rotating Stars in Binaries-An Unsolved Problem", Unsolved Problems in Stellar Physics: A Conference in Honour of Douglas Gough, 948, 321, 2007, **S.E. de Mink**, O.R. Pols, and E. Glebbeek
35. "Testing Models Of Interacting Binaries Against Observations", IAU Symposium, 240, 384, 2007, **S.E. de Mink**, and O.R. Pols
36. "Testing binary evolution at SMC metallicity", Stellar Evolution at Low Metallicity: Mass Loss, Explosions, Cosmology, 353, 91, 2006, **S.E. de Mink** and O.R. Pols

### Conference proceedings continued (as co-author)

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37. "Multiplicity of massive O stars and evolutionary implications", 370 years of Astronomy in Utrecht, 2012, H. Sana, **S.E. de Mink**, A. de Koter, N. Langer, C.J. Evans, M. Gieles, E. Gosset, R.G. Izzard, J.-B. Le Bouquin, F.R.N. Schneider
38. "Gone with the wind: The elusive origin of Carbon-Enhanced Metal-Poor stars", 370 years of Astronomy in Utrecht, 2012, C. Abate, O. R. Pols, R. G. Izzard, S. S. Mohamed, and **S. E. de Mink**
39. "The elusive origin of Carbon-Enhanced Metal-Poor stars", XII International Symposium on Nuclei in the Cosmos, August 5-12, 2012 Cairns, Australia, C. Abate, O. R. Pols, R. G. Izzard, S. S. Mohamed, and **S. E. de Mink**
40. "A New Analysis of Multiple Main-Sequence Turn-Offs in Intermediate-Age Star Clusters", AAS 220, 438.03, 2012, V. Kozhurina-Platais, A. Dotter, **S.E. de Mink**, I. Platais, P. Goudfrooij
41. "Toward Detecting Fast Moving Massive Stars around the 30 Doradus Region", AAS 220, 130.08, 2012, Platais, Imants;

- Sabbi, E.; Anderson, J.; Lennon, D. J.; van der Marel, R. P.; Bellini, A. J.; **de Mink, S. E.**; Sohn, S. T.; Bedin, L. R.
42. "The O stars in the VLT-FLAMES Tarantula Survey", *Journal of Physics: Conference Series*, 328, 12022 2011, de Koter, A.; Sana, H.; Evans, C. J.; Bagnoli, T.; Bastian, N.; Bestenlehner, J. M.; Bonanos, A.; Bressert, E.; Brott, I.; Cantiello, M.; Carraro, G.; Clark, S.; Crowther, P.; **de Mink, S. E.**; Doran, E.; Dufton, P.; Dunstall, P.; Garcia, M.; Gräfener, G.; Hénault-Brunet, V.; Herrero, A.; Howarth, I.; Izzard, R.; Köhler, K.; Langer, N.; Lennon, D.; Maíz Apellániz, J.; Markova, N.; Najarro, P.; Puls, J.; Ramirez, O.; Sabín-Sanjulián, C.; Simón-Díaz, S.; Smartt, S.; Stroud, V.; van Loon, J. Th; Taylor, W.; Vink, J. S.
43. "The VLT-FLAMES Tarantula Survey", *The Messenger*, 145, 33, 2011, Evans, C.; Taylor, W.; Sana, H.; Hénault-Brunet, V.; Bagnoli, T.; Bastian, N.; Bestenlehner, J.; Bonanos, A.; Bressert, E.; Brott, I.; Campbell, M.; Cantiello, M.; Carraro, G.; Clark, S.; Costa, E.; Crowther, P.; de Koter, A.; **de Mink, S. E.**; Doran, E.; Dufton, P.; Dunstall, P.; Garcia, M.; Gieles, M.; Gräfener, G.; Herrero, A.; Howarth, I.; Izzard, R.; Köhler, K.; Langer, N.; Lennon, D.; Maíz Apellániz, J.; Markova, N.; Najarro, P.; Puls, J.; Ramirez, O.; Sabín-Sanjulián, C.; Simón-Díaz, S.; Smartt, S.; Stroud, V.; van Loon, J.; Vink, J. S.; Walborn, N.
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