

Service

- since 2013 - ObsGE theses committee
- 2008-2009 - Member of the swiss steering comitee for IYA 2009
 - Webmaster for the [swiss website](#) and the [romand website](#)
- since 2006 - Webmaster for the [Swiss Astronomy Network for Stellar Evolution](#)
 - Webmaster for the [Stellar evolution group](#), Geneva Observatory
 - Secretary and webmaster for the female vocal consort [Volubilis](#)

Skills

- **computing:**
 - operating systems: Mac OS X, Linux, Solaris (Unix)
 - programming: fortran, python HTML, css, bash, SuperMongo
 - softwares: Illustrator, InDesign, Photoshop, Office, LaTeX, LilyPond
- **Languages:**
 - french (mother tongue)
 - english (fluent)
 - spanish (advanced)
 - german (basics)
 - greek (basics)
- **Music:**
 - choir singing (in the female vocal consort [Volubilis](#))
 - music score editing

Scientific activities

Scientific research and work

My domain is massive stars' evolution. The topics I'm mainly interested in are:

- the effects of rotation on stellar evolution and the evolution of fast rotators (Be stars)
- stellar evolution at low metallicity
- the evolution of stellar populations
- stellar nucleosynthesis and the chemical evolution of the Universe

A large part of my work consists in participating in our group's task of providing stellar models to the astronomical community. I'm in charge of maintaining the Geneva stellar evolution code and managing its various developments and analysis tools.

Teaching and supervising

- since 2014 co-supervisor for the thesis of Arthur Choplin
- since 2012 occasional replacement of Prof. Georges Meynet for the astronomical part of the lecture "Evolution" (UniGE)
- since 2008 occasional replacement of Prof. Georges Meynet for the lecture "Physique cosmique" (UniGE)
- Oct.-Nov. 2006 Teaching at Ecole Romande d'Astronomie, Lausanne
- since 2004 Tutor for 3rd year semester projects and master theses
- 1988-1999 Supervision of many midwife students in delivery unit and postnatal care

Invited talks, seminars and lectures

- Invited review *Star cluster formation history in the Magellanic Clouds*, Symposium S9 during EWASS, Prague (Czech Republic), June 2017
First stars V, Heidelberg (Germany), August 2016
The B[e] Phenomenon. Forty Years of Studies, Prague (Czech Republic), July 2016
Massive stars: from α to Ω , Rhodes (Greece), June 2013
VIIIth Tours Symposium, Lenzkirch-Saig (Germany), September 2012
IAU Symposium 272, Paris (France), July 2010
- Invited talk *Evolution and explosion of massive stars*, Dublin (Ireland), May 2017
GREAT workshop *Massive stars and the Gaia-ESO Survey*, Brussels (Belgium), May 2015
ESTER workshop, Toulouse (France), June 2014
GREAT workshop *Young Clusters in the Gaia-ESO Survey*, Palermo (Italy), May 2014
Betelgeuse workshop, Paris (France), November 2012
Mapping oxygen in the Universe, Tenerife (Spain), May 2012
CHARA workshop, Nice (France), March 2009
- Seminars Basel University (Switzerland), May 2009
GRAAL, Montpellier University (France), November 2008
- Lectures RED'14, Le Teich, February 2014
Formation continue des enseignants en physique genevois, GenÈve, January 2014
RED'12, Le Teich, February 2012
Formation continue des enseignants en physique genevois, GenÈve, January 2009
Formation continue de la Commission Romande de Physique, Sion, September 2009

Service

- 2016-2018 Member of the SOC for the workshop "*A revolution in stellar physics with Gaia and large surveys*" to be held in Warsaw, Poland, Sep. 3-7 2018.
- 2015-2017 Member of the SOC for the conference "*AGB-supernovae mass transition*" Rome, Italy, Mar. 27-31 2017.
- 2014-2016 Member of the SOC for the IAU Symposium 329 "*The lives and death-throes of massive stars*" Auckland, New Zealand, Nov. 28 - Dec. 2 2016.
- 2013-2014 Co-chair of the LOC for the IAU Symposium 307 '*New windows on massive stars*', Geneva June 23-27 2014, webmaster for the [website](#)
- 2010 Member of the LOC for the 1st SCfA Summerschool '*Stars and Supernovae in Galaxies*', St-Luc VS, September 13-17, webmaster for the [website](#)
- 2009 Member of the LOC for the IAU Symposium 268 '*Light elements in the Universe*', Geneva November 9-13, webmaster for the [website](#)

Publications

I'm author or co-author of 141 articles, of which 54 in refereed journals (*Astronomy & Astrophysics*, *Monthly Notices of the Royal Astronomical Society*, *Astrophysical Journal*, *Astronomische Nachrichten*, *Physics Review D*). These papers gather more than 3500 citations and grant me an h-index of 29. A [complete list](#) of publications can be found at the end of this resumé or in [ADS](#).

Outreach activities

Projects

[Stellarium Gornergrat](#) Coordination of the ObsGE participation, responsible for the conception of the web interface. Official opening: early 2017

Astronomy Events	Conception of the web interface
Ramène ta science	Conception of the astronomy kit, participation for the ObsGE
L'Oreille des Kids	Organisation and coordination of the participation of ObsGE to the project
Nuit de la Science	Participation in 2006 and 2008 coordination of the ObsGE stand in 2010, 2012, 2014, and 2016.

In the media

Radio	- RTS La Première CQFD (solar eruptions) - RTS La Première CQFD, la 1000e , June 23 2016 - RTS La Première, Les Audacieux , July 29 2015 - RTS La Première, Motus et Bouche cousue , July 16 2013 - RTS La Première, special emission of Impatience , June 30 2011
Press	- <i>Scanner</i> chronicles in Le Temps 2012: Nov. 7 2013: Feb. 6, Apr. 17, June 24, Oct. 2, Dec. 11 2014: Mar. 5, May 7, Oct. 10, Dec. 17 2015: Mar. 25 - regular answers to kids questions in Migros Magazine - <i>Terre & Nature</i> , special Geneva edition, August 15 2013

Public outreach conferences

"Formation des premières étoiles de l'Univers"	given in Geneva (Apr. 2005)
"Du nuage au nuage, le grand cycle des étoiles"	given in Geneva (Jul. 2006), Yverdon VD (Feb. 2009), Malvilliers NE (Sept. 2009), Sion VS (May 2010), Signal-de-Bougy VD (Aug. 2010), Fribourg (Jan. 2014)
"La lumière dans tous ses états"	given in Geneva (Apr. 2009), Onex GE (Feb. 2011), Blonay VD (May 2011), Fort-l'Ecluse (Jul. 2011) Monthey VS (Jan. 2013), Signal-de-Bougy VD (Aug. 2013), Ferney-Voltaire (Feb. 2015)
"Vol de Nuit, de la Terre aux confins de l'Univers"	given in Grignon (Sept. 2009), Annemasse (Nov. 2009), Reignier-Esery (Nov. 2010), Chillon (Sep. 2011), Neuchâtel (Jul. 2012), Sion (Sept. 2012)
"Dernières nouvelles des premières étoiles"	given in Monthey VS (Jan. 2010)
"Où sommes-nous dans l'Univers ?"	given in Geneva (Nov. 2010, Sep. 2011, Mar. 2014), Yverdon VD (Feb. 2015)
"Dürrenmatt et les astres"	given in Neuchâtel (Dec. 2010)
"Du Big bang à la Vie"	given in St Luc (Jul. 2012), Morges (Nov. 2012), Yverdon (Apr. 2013), Malvilliers NE (May 2013) Neuchâtel (July 2013), Ferney-Voltaire (Sep. 2015)
"SN1987A : autopsie d'une supernova"	given in Renens (Apr. 2017), Divonne-les-Bains (Apr. 2017) Monthey (Sep. 2017)

Events

Ciné Versoix: Q&A session after a movie projection

Feb 8 2014	Gravity
Jan 22 2016	The Martian

Féerie d'une nuit: café astro since 2012

Publications in peer-reviewed journals

- [1] CLOSE BINARY EVOLUTION. II. IMPACT OF TIDES, WIND MAGNETIC BRAKING, AND INTERNAL ANGULAR MOMENTUM TRANSPORT.
Song H. F., Meynet G., Maeder A., Ekstrom S., Eggenberger P., Georgy C., Qin Y., Fragos T., Soerensen M., Barblan F., and Wade G. A.
(2017) *A&A*(in press) – arXiv:1709.01902 [[ADS](#)]
- [2] PRE-SUPERNOVA MIXING IN CEMP-NO SOURCE STARS.
Choplin A., Ekström S., Meynet G., Maeder A., Georgy C., and Hirschi R.
(2017) *A&A* **605** A63 – arXiv:1706.05313 [[ADS](#)]
- [3] PERIOD-LUMINOSITY RELATIONS OF FAST-ROTATING B-TYPE STARS IN THE YOUNG OPEN CLUSTER NGC 3766.
Saio H., Ekström S., Mowlavi N., Georgy C., Saesen S., Eggenberger P., Semaan T., and Salmon S. J. A. J.
(2017) *MNRAS* **467** 3864 – arXiv:1702.02306 [[ADS](#)]
- [4] STAR-PLANET INTERACTIONS. IV. POSSIBILITY OF DETECTING THE ORBIT-SHRINKING OF A PLANET AROUND A RED GIANT.
Meynet G., Eggenberger P., Privitera G., Georgy C., Ekström S., Alibert Y., and Lovis C.
(2017) *A&A* **602** L7 – arXiv:1706.02234 [[ADS](#)]
- [5] POSSIBLE PAIR-INSTABILITY SUPERNOVAE AT SOLAR METALLICITY FROM MAGNETIC STELLAR PROGENITORS.
Georgy C., Meynet G., Ekström S., Wade G. A., Petit V., Keszthelyi Z., and Hirschi R.
(2017) *A&A* **599** L5 – arXiv:1702.02340 [[ADS](#)]
- [6] A STUDY OF THE EFFECT OF ROTATIONAL MIXING ON MASSIVE STARS EVOLUTION: SURFACE ABUNDANCES OF GALACTIC O7-8 GIANT STARS.
Martins F., Simón-Díaz S., Barbá R. H., Gamen R. C., and Ekström S.
(2017) *A&A* **599** A30 – arXiv:1611.05223 [[ADS](#)]
- [7] CONSTRAINING THE EFFICIENCY OF ANGULAR MOMENTUM TRANSPORT WITH ASTEROSEISMOLOGY OF RED GIANTS: THE EFFECT OF STELLAR MASS.
Eggenberger P., Lagarde N., Miglio A., Montalbán J., Ekström S., Georgy C., Meynet G., Salmon S., Ceillier T., García R. A., Mathis S., Deheuvels S., Maeder A., den Hartogh J. W., and Hirschi R.
(2017) *A&A* **599** A18 – arXiv:1612.04258 [[ADS](#)]
- [8] STELLAR VARIABILITY IN OPEN CLUSTERS. II. DISCOVERY OF A NEW PERIOD-LUMINOSITY RELATION IN A CLASS OF FAST-ROTATING PULSATING STARS IN NGC 3766.
Mowlavi N., Saesen S., Semaan T., Eggenberger P., Barblan F., Eyer L., Ekström S., and Georgy C.
(2016) *A&A* **595** L1 [[ADS](#)]
- [9] MODELS OF ROTATING STARS CONSTRAINED BY ASTEROSEISMIC MEASUREMENTS OF RED GIANTS.
Eggenberger P., Lagarde N., Miglio A., Montalbán J., Ekström S., Georgy C., Salmon S., Meynet G., and Maeder A.
(2016) *Astronomische Nachrichten* **337** 832 [[ADS](#)]
- [10] IMPACT OF ROTATION ON STELLAR MODELS.
Meynet G., Maeder A., Eggenberger P., Ekström S., Georgy C., Chiappini C., Privitera G., and Choplin A.
(2016) *Astronomische Nachrichten* **337** 827 – arXiv:1512.00767 [[ADS](#)]
- [11] HIGH SURFACE MAGNETIC FIELD IN RED GIANTS AS A NEW SIGNATURE OF PLANET ENGULFMENT?
Privitera G., Meynet G., Eggenberger P., Georgy C., Ekström S., Vidotto A. A., Bianda M., Villaver E., and ud-Doula A.
(2016) *A&A* **593** L15 – arXiv:1608.08893 [[ADS](#)]

- [12] A YOUNG CLUSTER WITH AN EXTENDED MAIN-SEQUENCE TURNOFF: CONFIRMATION OF A PREDICTION OF THE STELLAR ROTATION SCENARIO.
Bastian N., Niederhofer F., Kozhurina-Platais V., Salaris M., Larsen S., Cabrera-Ziri I., Cordero M., Ekström S., Geisler D., Georgy C., Hilker M., Kacharov N., Li C., Mackey D., Mucciarelli A., and Platais I.
(2016) MNRAS **460** L20 – arXiv:1604.01046 [ADS]
- [13] ON THE EFFECT OF ROTATION ON POPULATIONS OF CLASSICAL CEPHEIDS. II. PULSATION ANALYSIS FOR METALLICITIES 0.014, 0.006, AND 0.002.
Anderson R. I., Saio H., Ekström S., Georgy C., and Meynet G.
(2016) A&A **591** A8 – arXiv:1604.05691 [ADS]
- [14] S-PROCESS PRODUCTION IN ROTATING MASSIVE STARS AT SOLAR AND LOW METALLICITIES.
Frischknecht U., Hirschi R., Pignatari M., Maeder A., Meynet G., Chiappini C., Thielemann F.-K., Rauscher T., Georgy C., and Ekström S.
(2016) MNRAS **456** 1803 – arXiv:1511.05730 [ADS]
- [15] MASSIVE STAR EVOLUTION IN CLOSE BINARIES. CONDITIONS FOR HOMOGENEOUS CHEMICAL EVOLUTION.
Song H. F., Meynet G., Maeder A., Ekström S., and Eggenberger P.
(2016) A&A **585** A120 – arXiv:1508.06094 [ADS]
- [16] APPARENT AGE SPREADS IN CLUSTERS AND THE ROLE OF STELLAR ROTATION.
Niederhofer F., Georgy C., Bastian N., and Ekström S.
(2015) MNRAS **453** 2070 – arXiv:1507.07561 [ADS]
- [17] IMPACT OF MASS-LOSS ON THE EVOLUTION AND PRE-SUPERNOVA PROPERTIES OF RED SUPERGIANTS.
Meynet G., Chomienne V., Ekström S., Georgy C., Granada A., Groh J., Maeder A., Eggenberger P., Levesque E., and Massey P.
(2015) A&A **575** A60 – arXiv:1410.8721 [ADS]
- [18] POPULATIONS OF ROTATING STARS. III. SYCLIST, THE NEW GENEVA POPULATION SYNTHESIS CODE.
Georgy C., Granada A., Ekström S., Meynet G., Anderson R. I., Wyttenbach A., Eggenberger P., and Maeder A.
(2014) A&A **566** A21 – arXiv:1404.6952 [ADS]
- [19] THE EFFECTS OF STELLAR ROTATION. II. A COMPREHENSIVE SET OF STARBURST99 MODELS.
Leitherer C., Ekström S., Meynet G., Schaerer D., Agienko K. B., and Levesque E. M.
(2014) ApJS **212** 14 – arXiv:1403.5444 [ADS]
- [20] EVOLUTION OF SURFACE CNO ABUNDANCES IN MASSIVE STARS.
Maeder A., Przybilla N., Nieva M.-F., Georgy C., Meynet G., Ekström S., and Eggenberger P.
(2014) A&A **565** A39 – arXiv:1404.1020 [ADS]
- [21] ON THE EFFECT OF ROTATION ON POPULATIONS OF CLASSICAL CEPHEIDS I. PREDICTIONS AT SOLAR METALLICITY.
Anderson R. I., Ekström S., Georgy C., Meynet G., Mowlavi N., and Eyer L.
(2014) A&A **564** A100 – arXiv:1403.0809 [ADS]
- [22] THE EVOLUTION OF MASSIVE STARS AND THEIR SPECTRA I. A NON-ROTATING 60 M_{\odot} STAR FROM THE ZERO-AGE MAIN SEQUENCE TO THE PRE-SUPERNOVA STAGE.
Groh J.H., Meynet G., Ekström S., and Georgy C.
(2014) A&A **564** A30 – arXiv:1401.7322 [ADS]
- [23] PROGENITORS OF SUPERNOVA IBC: A SINGLE WOLF-RAYET STAR AS THE POSSIBLE PROGENITOR OF THE SN IB IPTF13BVN.
Groh J.H., Georgy C., and Ekström S.
(2013) A&A **558** L1 – arXiv:1307.8434 [ADS]
- [24] FUNDAMENTAL PROPERTIES OF CORE-COLLAPSE SUPERNOVA AND GRB PROGENITORS: PREDICTING THE LOOK OF MASSIVE STARS BEFORE DEATH.
Groh J.H., Meynet G., Georgy C., and Ekström S.
(2013) A&A **558** A131 – arXiv:1308.4681 [ADS]

- [25] GRIDS OF STELLAR MODELS WITH ROTATION. III. MODELS FROM 0.8 TO 120 M_{\odot} AT A METALLICITY $Z = 0.002$.
Georgy C., Ekström S., Eggenberger P., Meynet G., Haemmerlé L., Maeder A., Granada A., Groh J.H., Hirschi R., Mowlavi N., Yusof N., Charbonnel C., Decressin T., and Barblan F.
(2013) *A&A* **558** A103 – arXiv:1308.2914 [ADS]
- [26] EVOLUTION AND FATE OF VERY MASSIVE STARS.
Yusof N., Hirschi R., Meynet G., Crowther P. A., Ekström S., Frischknecht U., Georgy C., Abu Kassim H., and Schnurr O.
(2013) *MNRAS* **433** 1114 – arXiv:1305.2099 [ADS]
- [27] CLOSE-BINARY EVOLUTION. I. TIDALLY INDUCED SHEAR MIXING IN ROTATING BINARIES.
Song H. F., Maeder A., Meynet G., Huang R. Q., Ekström S., and Granada A.
(2013) *A&A* **556** A100 – arXiv:1306.6731 [ADS]
- [28] POPULATIONS OF ROTATING STARS. II. RAPID ROTATORS AND THEIR LINK TO BE-TYPE STARS.
Granada A., Ekström S., Georgy C., Krtićka J., Owocki S., Meynet G., and Maeder A.
(2013) *A&A* **553** A25 – arXiv:1303.2393 [ADS]
- [29] POPULATIONS OF ROTATING STARS. I. MODELS FROM 1.7 TO 15 M_{\odot} AT $Z = 0.014, 0.006, \text{ AND } 0.002$ WITH Ω/Ω_{crit} BETWEEN 0 AND 1.
Georgy C., Ekström S., Granada A., Meynet G., Mowlavi N., Eggenberger P., and Maeder A.
(2013) *A&A* **553** A24 – arXiv:1303.2321 [ADS]
- [30] MASSIVE STAR EVOLUTION: LUMINOUS BLUE VARIABLES AS UNEXPECTED SUPERNOVA PROGENITORS.
Groh J.H., Meynet G., and Ekström S.
(2013) *A&A* **550** L7 – arXiv:1301.1519 [ADS]
- [31] MODELS OF ROTATING MASSIVE STARS: IMPACTS OF VARIOUS PRESCRIPTIONS.
Meynet G., Ekström S., Maeder A., Eggenberger P., Saio H., Chomienne V., and Haemmerlé L.
in *Studying Stellar Rotation and Convection* (Goupil M., Belkacem K., Neiner C., Lignières F., and Green J. J., editors).
(2013) *Lecture Notes in Physics* **865** 3 – arXiv:1301.2487 [ADS]
- [32] RESOLVING VEGA AND THE INCLINATION CONTROVERSY WITH CHARA/MIRC.
Monnier J. D., Che X., Zhao M., Ekström S., Maestro V., Aufdenberg J., Baron F., Georgy C., Kraus S., McAlister H., Pedretti E., Ridgway S., Sturmman J., Sturmman L., ten Brummelaar T., Thureau N., Turner N., and Tuthill P. G.
(2012) *ApJL* **761** L3 – arXiv:1211.6055 [ADS]
- [33] THERMOHALINE INSTABILITY AND ROTATION-INDUCED MIXING. III. GRID OF STELLAR MODELS AND ASYMPTOTIC ASTEROSEISMIC QUANTITIES FROM THE PRE-MAIN SEQUENCE UP TO THE AGB FOR LOW- AND INTERMEDIATE-MASS STARS OF VARIOUS METALLICITIES.
Lagarde N., Decressin T., Charbonnel C., Eggenberger P., Ekström S., and Palacios A.
(2012) *A&A* **543** A108 – arXiv:1204.5193 [ADS]
- [34] GRIDS OF STELLAR MODELS WITH ROTATION. II. WR POPULATIONS AND SUPERNOVAE/GRB PROGENITORS AT $Z = 0.014$.
Georgy C., Ekström S., Meynet G., Massey P., Levesque E. M., Hirschi R., Eggenberger P., and Maeder A.
(2012) *A&A* **542** A29 – arXiv:1203.5243 [ADS]
- [35] THE EFFECTS OF STELLAR ROTATION. I. IMPACT ON THE IONIZING SPECTRA AND INTEGRATED PROPERTIES OF STELLAR POPULATIONS.
Levesque E. M., Leitherer C., Ekström S., Meynet G., and Schaerer D.
(2012) *ApJ* **751** 67 – arXiv:1203.5109 [ADS]
- [36] STELLAR MASS AND AGE DETERMINATIONS. I. GRIDS OF STELLAR MODELS FROM $Z = 0.006$ TO 0.04 AND $M = 0.5$ TO 3.5 M_{\odot} .
Mowlavi N., Eggenberger P., Meynet G., Ekström S., Georgy C., Maeder A., Charbonnel C., and Eyer L.
(2012) *A&A* **541** A41 – arXiv:1201.3628 [ADS]

- [37] ON THE EDDINGTON LIMIT AND WOLF-RAYET STARS.
Maeder A., Georgy C., Meynet G., and Ekström S.
(2012) *A&A* **539** A110 – arXiv:1201.5013 [[ADS](#)]
- [38] GRIDS OF STELLAR MODELS WITH ROTATION. I. MODELS FROM 0.8 TO 120 M_{\odot} AT SOLAR METALLICITY ($Z = 0.014$).
Ekström S., Georgy C., Eggenberger P., Meynet G., Mowlavi N., Wyttenbach A., Granada A., Decressin T., Hirschi R., Frischknecht U., Charbonnel C., and Maeder A.
(2012) *A&A* **537** A146 – arXiv:1110.5049 [[ADS](#)]
- [39] DIFFERENTIAL ROTATION IN RAPIDLY ROTATING EARLY-TYPE STARS. I. MOTIVATIONS FOR COMBINED SPECTROSCOPIC AND INTERFEROMETRIC STUDIES.
Zorec J., Frémat Y., Domiciano de Souza A., Delaa O., Stee P., Mourard D., Cidale L., Martayan C., Georgy C., and Ekström S.
(2011) *A&A* **526** A87 – arXiv:1012.1707 [[ADS](#)]
- [40] EVOLUTION OF MASSIVE BE AND OE STARS AT LOW METALLICITY TOWARDS THE LONG GAMMA RAY BURSTS.
Martayan C., Zorec J., Baade D., Frémat Y., Fabregat J., and Ekström S.
(2011) *BSRSL* **80** 285 – arXiv:1010.3345 [[ADS](#)]
- [41] CONSTRAINTS ON ROTATIONAL MIXING FROM SURFACE EVOLUTION OF LIGHT ELEMENTS IN MASSIVE STARS.
Frischknecht U., Hirschi R., Meynet G., Ekström S., Georgy C., Rauscher T., Winteler C., and Thielemann F.-K.
(2010) *A&A* **522** A39 – arXiv:1007.1779 [[ADS](#)]
- [42] ARE C-RICH ULTRA IRON-POOR STARS ALSO HE-RICH?
Meynet G., Hirschi R., Ekström S., Maeder A., Georgy C., Eggenberger P., and Chiappini C.
(2010) *A&A* **521** A30 – arXiv:1004.5024 [[ADS](#)]
- [43] CAN MASSIVE BE/OE STARS BE PROGENITORS OF LONG GAMMA RAY BURSTS?
Martayan C., Zorec J., Frémat Y., and Ekström S.
(2010) *A&A* **516** A103 – arXiv:1004.3362 [[ADS](#)]
- [44] EFFECTS OF THE VARIATION OF FUNDAMENTAL CONSTANTS ON POPULATION III STELLAR EVOLUTION.
Ekström S., Coc A., Descouvemont P., Meynet G., Olive K. A., Uzan J.-P., and Vangioni E.
(2010) *A&A* **514** A62 – arXiv:0911.2420 [[ADS](#)]
- [45] MODELING MASSIVE STARS WITH ROTATION: THE CASE OF NITROGEN ENRICHMENTS.
Maeder A., Meynet G., Ekström S., and Georgy C.
(2009) *CoAst* **158** 72 – arXiv:0810.0657 [[ADS](#)]
- [46] EVOLUTION OF MASSIVE STARS ALONG THE COSMIC HISTORY.
Meynet G., Ekström S., Georgy C., Chiappini C., and Maeder A.
in *Reviews in Modern Astronomy* (Röser S., editor).
(2009) *Reviews in Modern Astronomy* **21** 97 – arXiv:0901.4489 [[ADS](#)]
- [47] DARK MATTER ANNIHILATIONS IN POPULATION III STARS.
Taoso M., Bertone G., Meynet G., and Ekström S.
(2008) *Phys. Rev. D* **78**(12) 123510 – arXiv:0806.2681 [[ADS](#)]
- [48] EFFECTS OF ROTATION ON THE EVOLUTION OF PRIMORDIAL STARS.
Ekström S., Meynet G., Chiappini C., Hirschi R., and Maeder A.
(2008) *A&A* **489** 685 – arXiv:0807.0573 [[ADS](#)]
- [49] THE GENEVA STELLAR EVOLUTION CODE.
Eggenberger P., Meynet G., Maeder A., Hirschi R., Charbonnel C., Talon S., and Ekström S.
(2008) *Ap&SS* **316** 43 [[ADS](#)]

- [50] A NEW IMPRINT OF FAST ROTATORS: LOW $^{12}\text{C}/^{13}\text{C}$ RATIOS IN EXTREMELY METAL-POOR HALO STARS.
Chiappini C., Ekström S., Meynet G., Hirschi R., Maeder A., and Charbonnel C.
(2008) *A&A* **479** L9 – arXiv:0712.3434 [[ADS](#)]
- [51] EVOLUTION TOWARDS THE CRITICAL LIMIT AND THE ORIGIN OF BE STARS.
Ekström S., Meynet G., Maeder A., and Barblan F.
(2008) *A&A* **478** 467 – arXiv:0711.1735 [[ADS](#)]
- [52] FAST ROTATING MASSIVE STARS AND THE ORIGIN OF THE ABUNDANCE PATTERNS IN GALACTIC GLOBULAR CLUSTERS.
Decressin T., Meynet G., Charbonnel C., Prantzos N., and Ekström S.
(2007) *A&A* **464** 1029 – arXiv:astro-ph/0611379 [[ADS](#)]
- [53] A STRONG CASE FOR FAST STELLAR ROTATION AT VERY LOW METALLICITIES.
Chiappini C., Hirschi R., Meynet G., Ekström S., Maeder A., and Matteucci F.
(2006) *A&A* **449** L27 – arXiv:astro-ph/0602459 [[ADS](#)]
- [54] THE EARLY STAR GENERATIONS: THE DOMINANT EFFECT OF ROTATION ON THE CNO YIELDS.
Meynet G., Ekström S., and Maeder A.
(2006) *A&A* **447** 623 – arXiv:astro-ph/0510560 [[ADS](#)]

Publications in conference proceedings

- [1] HOW ROTATION AFFECTS MASSES AND AGES OF CLASSICAL CEPHEIDS.
Anderson R. I., Ekström S., Georgy C., Meynet G., and Saio H.
in *European Physical Journal Web of Conferences*.
(2017) *European Physical Journal Web of Conferences* **152** 06002 – arXiv:1703.01338 [[ADS](#)]
- [2] MASSIVE STARS, SUCCESSES AND CHALLENGES.
Meynet G., Maeder A., Georgy C., Ekström S., Eggenberger P., Barblan F., and Song H. F.
in *The Lives and Death-Throes of Massive Stars*.
(2017) *IAU Symposium* **329** – arXiv:1704.04616 [[ADS](#)]
- [3] SYNTHETIC CLUSTERS OF MASSIVE STARS TO TEST STELLAR EVOLUTION MODELS.
Georgy C. and Ekström S.
in *IAU Symposium* (Charbonnel C. and Nota A., editors).
(2017) *IAU Symposium* **316** 355 – arXiv:1509.02779 [[ADS](#)]
- [4] THE ADVANCED STAGES OF STELLAR EVOLUTION: IMPACT OF MASS LOSS, ROTATION, AND LINK WITH B[E] STARS.
Georgy C., Saio H., Ekström S., and Meynet G.
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