Sylvia EKSTRÖM GARCÍA NOMBELA

Place of birth: Stockholm (Sweden)
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Education

Sep. 2008	PhD thesis in Astrophysics ('*The evolution of fast rotating massive stars at low or zero metallicity*') under the supervision of Prof. G. Meynet, Geneva Observatory
Jan. 2006	MAS in Astronomy, Geneva Observatory
May 2004	Master's thesis in Physics ('*Rotating Primordial Stars*'), University of Geneva
Sep. 1988	Midwife diploma, Le Bon Secours, Geneva
June 1985	Maturité fédérale (greek-latin), Collège Calvin, Geneva

Prizes, awards, and grants

2023	Leadership Award from the European Business School
2022-2026	FNS Grant 212143: *Unique insight into binary stars and their close environment*
2014	MERAC Funding and Travel Award for the project *Stellar populations, from theory to observation*
2008	Plantamour-Prévost Prize, University of Geneva

Positions

since Apr. 2009	Scientific collaborator at the Geneva Observatory: 50% research in the stellar evolution group (see page 2) 50% head of communication for the Department (see page 4)
Sep. 2008 –	Postdoctoral researcher in the stellar evolution group of the Geneva Observatory
1988 - 1999	Midwife position at Hôpital de zone, Morges (childbirth classes, prenatal care, labour and delivery unit, postnatal care)

Membership

since 2023	Scientific commission of the Swiss society of chronometry
since 2014	Foundation board of the St Luc observatory (OFXB)
since 2012	International Astronomical Union (IAU, Commissions G2 and G3)
2009-2015	Communication cell of the Geneva University Faculty of Sciences
2007-2014	Geneva permanent college of experts for the formation of physics lab assistants
since 2004	Swiss Society of Astronomy and Astrophysics (SSAA)
	European Astronomical Society (EAS)
1988-2012	Swiss Federation of Midwives (FSSF)

Service

since 2021	- Elected member and secretary of the Organising Committee for the IAU Commission G2 (Massive stars)
2019	- Ad interim secretary for the Swiss Society of Astrophysics and Astronomy (SSAA)
since 2013	- ObsGE theses committee
2008-2009	- Member of the swiss steering committee 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: Affinity (Designer, Photo, Publisher), Office, LaTeX, MuseScore
- **Languages**:
  - french (mother tongue)
  - english (fluent)
  - spanish (advanced)
  - german (basics)
  - greek (basics)
- **Hobbies**:
  - classical singing (member of the female voice consort *Volubilis* and of smaller formations)
  - cello (member of the duett Violonc'Elles)

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)
- the evolution of supernovae progenitors
- 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 (GENEC) and managing its various developments and analysis tools.

Teaching and supervising

since 2022	supervisor for the thesis of Luca Sciarini
since 2020	co-supervisor for the thesis of Devesh Nandal and Sophie Tsiatsiou
since 2019	teaching of the astronomical part of the lecture "*Evolution*" at UniGE (bachelor in biology)
since 2018	co-supervisor for the thesis of Sébastien Martinet
2014-2018	co-supervisor for the thesis of Arthur Choplin
2012-2018	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	TASC/KASC workshops *Asteroseismology in the Era of Surveys from Space and the Ground: Stars, Planets, and the Milky Way*, Leuven (Belgium), July 2022
	EWASS S9 symposium *Star cluster formation history in the Magellanic Clouds*, 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	IFPU Focus week *Enigmatic first stars and where to find them*, Trieste (Italy), May 2023
	Colloquium *The Human to come*, journÈe mondiale de la Philosophie, UNESCO Paris (France), November 2022
	IV Conference of stellar astrophysics, Tucuman (Argentina), June 2022
	EAS SS22 *The Great Dimming of Betelgeuse: news from the mass loss of red supergiants*, virtual meeting, June 2021
	POLSTAR science meeting, virtual meeting, March 2021
	Conference *Stars and their Variability, Observed from Space*, Vienna (Austria), August 2019
	EWASS SS19 *Mass loss of cool evolved stars: a multi-technique approach* during EWASS, Lyon (France), June 2019
	Workshop *Stellar Winds in Wind-fed Systems*, Santander (Spain), October 2018
	IAUS 344: *Dwarf galaxies: from the deep Universe to the present*, Vienna (Austria), August 2018
	Meeting *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	Mazaryk University, Brno (Czech republic), November 2020
	Trinity College Dublin (Republic of Ireland), February 2019
	Basel University (Switzerland), May 2009
	GRAAL, Montpellier University (France), November 2008
Lectures	Formation continue des enseignants du secondaire, Lyon, March 2022 and May 2023
	RED'14, Le Teich, February 2014
	Formation continue des enseignants en physique genevois, Geneva, January 2014
	RED'12, Le Teich, February 2012
	Formation continue des enseignants en physique genevois, Geneva, January 2009
	Formation continue de la Commission Romande de Physique, Sion, September 2009

Service

2021-2022	Expert in the stellar panel for the selection of the Hubble Fellowships 2022
2021-2022	Member of the stellar panel for the Astronet roadmap 2022-2035
2020-2022	External panelist for Cycle 28 and 29 of *Hubble Space Telescope* Time Allocating Committee
2019-2022	Member of the SOC for the IAUS 361 "*Massive stars near & far*", held in Cavan, Ireland, May 18-22 2022 (postponed twice due to pandemics)
2019	Member of the SOC+LOC for the conference "*CEMP stars as probe of the first-stars nucleosynthesis, the IMF and Galactic assembly*", held in Geneva, Sep. 9-13 2019
2016-2018	Member of the SOC for the workshop "*A revolution in stellar physics with Gaia and large surveys*", 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

I'm a regular referee for various journals (*A&A*, *ApJ*, *MNRAS*, *Nature Astronomy*) and for national science funds like FNRS Belgium, NWO Netherlands, ARC Belgium.

Publications

I'm an author or co-author of 183 articles, of which 88 in refereed journals (*Astronomy & Astrophysics*, *Monthly Notices of the Royal Astronomical Society*, *Astrophysical Journal*, *Astronomische Nachrichten*, *Physics Review D*, . . .), and a co-author in 2 collective books. I also wrote 8 entries in the Encyclopedia of Astrobiology. These publications gather more than 8'000 citations and grant me an h-index of 43. I'm also a contributor for 13 catalogue entries in CDS. 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.
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, 2016, 2018, and 2022.

In the media

Internet	- Libradio, direct from *Féérie d'une nuit* August 11 2018 (Café astro) - regularly answering to questions on RTS Découverte
Radio, TV	- summary page on Avisdexperts.ch - Many interviews on RTS La Première, *CQFD* - Couleur 3, *Les Raconteurs*, March 24 2021 - RTS La Première, *Les échos de Vacarme* November 3 2019 ('*L'espace fait-il toujours rêver ?*') - RTS La Première, *Premier rendez-vous* August 26 2019 - RTS La Première, *Le 12:30* December 13 2017 (about the Geminids) - RTS La Première, *La Matinale* October 4 2017 (about the Stellarium Gornergrat)

- RTS La Première, *Deux heures avant la nuit* July 29 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
- Ère magazine, ed. Dec. 2017, section Regard genevois
- *Scanner* 11 chronicles in Le Temps between 2012 and 2015
- regularly answering to kids questions in Migros Magazine
- Terre & Nature, 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), Versoix (Nov. 2022)
"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, Nov.2017), 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), Morges (as a webinar for ASTRAC, March 2021)
"Regards croisés : de l'astre à l'image"	given in Geneva (Sep. 2017)
"La vie secrète des étoiles"	given in Geneva (March 2018)
"La recherche en astronomie"	given in Geneva (Aug. 2018), Monthey (Sep. 2019)
"La face cachée de la Lune"	given in Divonne-les-Bains (June 2019)
"Nous ne vivrons pas sur Mars ni ailleurs"	given in Monthey (September 2021), Sion (Apr. 2022), Versoix (March 2023), Lausanne (April 2023), Geneva (April 2023)

Events

June 2023	Closing open days for the 250th anniversary of ObsGE (organisation of the activities)
June 2022	Open days for the 250th anniversary of ObsGE (organisation of the activities)
Feb. 2022	Oxford Union Debate: *Humanity should NOT populate Mars*
Dec. 2017	Concert *Bach parmi les étoiles*, Montreux
Jan. 2016	Q&A session after the projection of *The Martian* at Ciné-Versoix
Feb. 2014	Q&A session after the projection of *Gravity* at Ciné-Versoix
since 2012	Astro-café at *Féérie d'une nuit*, Signal-de-Bougy (VD)

Outreach book

"Nous ne vivrons pas sur Mars ni ailleurs", co-written with Javier G. Nombela, Ed. Favre, Oct. 2020
Related documentary on www.mars-mission-impossible.ch

Publications in peer-reviewed journals

[1] ANGULAR MOMENTUM TRANSPORT BY MAGNETIC FIELDS IN MAIN SEQUENCE STARS WITH GAMMA DORADUS PULSATORS.
Moyano F. D., Eggenberger P., Salmon S. J. A. J., Mombarg J. S. G., and Ekström S.
(2023) A&A **(submitted)** arXiv:2304.00674 – arXiv:2304.00674 [ADS]

[2] THE EVOLUTIONARY PROPERTIES OF THE BLUE LOOP UNDER THE INFLUENCE OF RAPID ROTATION AND LOW METALLICITY.
Zhao Liuyan, Song Hanfeng, Meynet Georges, Maeder Andre, Ekström Sylvia, Zhang Ruiyu, Qin Ying, Qi Shitao, and Zhan Qiong.
(2023) A&A **674** A92 [ADS]

[3] THE TIME-AVERAGED MASS-LOSS RATES OF RED SUPERGIANTS AS REVEALED BY THEIR LUMINOSITY FUNCTIONS IN M31 AND M33.
Massey Philip, Neugent Kathryn F., Ekström Sylvia, Georgy Cyril, and Meynet Georges.
(2023) ApJ **942** 69 – arXiv:2211.14147 [ADS]

[4] THE EFFECTS OF STELLAR ROTATION ALONG THE MAIN SEQUENCE OF THE 100-MYR-OLD MASSIVE CLUSTER NGC 1850.
Kamann S., Saracino S., Bastian N., Gossage S., Usher C., Baade D., Cabrera-Ziri I., de Mink S. E., Ekstrom S., Georgy C., Hilker M., Larsen S. S., Mackey D., Niederhofer F., Platais I., and Yong D.
(2023) MNRAS **518** 1505 – arXiv:2211.00693 [ADS]

[5] UNDERSTANDING STRUCTURE IN LINE-DRIVEN STELLAR WINDS USING ULTRAVIOLET SPECTROPOLARIMETRY IN THE TIME DOMAIN.
Gayley Kenneth G., Vink Jorick S., ud-Doula Asif, David-Uraz Alexandre, Ignace Richard, Prinja Raman, St-Louis Nicole, Ekström Sylvia, Nazé Yaël, Shenar Tomer, Scowen Paul A., Sudnik Natallia, Owocki Stan P., Sundqvist Jon O., Driessen Florian A., and Hennicker Levin.
(2022) Ap&SS **367** 123 – arXiv:2111.11633 [ADS]

[6] EVIDENCE OF DEEP MIXING IN IRS 7, A COOL MASSIVE SUPERGIANT MEMBER OF THE GALACTIC NUCLEAR STAR CLUSTER.
Guerço Rafael, Smith Verne V., Cunha Katia, Ekström Sylvia, Abia Carlos, Plez Bertrand, Meynet Georges, Ramirez Solange V., Prantzos Nikos, Sellgren Kris, Hayes Cristian R., and Majewski Steven R.
(2022) MNRAS **516** 2801 – arXiv:2208.10529 [ADS]

[7] VERY MASSIVE STAR WINDS AS SOURCES OF THE SHORT-LIVED RADIOACTIVE ISOTOPE ^{26}AL.
Martinet Sébastien, Meynet Georges, Nandal Devesh, Ekström Sylvia, Georgy Cyril, Haemmerlé Lionel, Hirschi Raphael, Yusof Norhasliza, Gounelle Matthieu, and Dwarkadas Vikram.
(2022) A&A **664** A181 – arXiv:2205.15184 [ADS]

[8] GRIDS OF STELLAR MODELS WITH ROTATION VII: MODELS FROM 0.8 TO 300 $M_\odot$ AT SUPERSOLAR METALLICITY (Z = 0.020).
Yusof Norhasliza, Hirschi Raphael, Eggenberger Patrick, Ekström Sylvia, Georgy Cyril, Sibony Yves, Crowther Paul A., Meynet Georges, Kassim Hasan Abu, Harun Wan Aishah Wan, Maeder André, Groh Jose H., Farrell Eoin, and Murphy Laura.
(2022) MNRAS **511**(2) 2814 – arXiv:2201.08645 [ADS]

[9] A NEW ^{12}C + ^{12}C NUCLEAR REACTION RATE: IMPACT ON STELLAR EVOLUTION.
Monpribat E., Martinet S., Courtin S., Heine M., Ekström S., Jenkins D. G., Choplin A., Adsley P., Curien D., Moukaddam M., Nippert J., Tsiatsiou S., and Meynet G.
(2022) A&A **660** A47 – arXiv:2111.15224 [ADS]

[10] NEWS FROM GAIA ON σ ORI E: A CASE STUDY FOR THE WIND MAGNETIC BRAKING PROCESS.
Song H. F., Meynet G., Maeder A., Mowlavi N., Stroud S. R., Keszthelyi Z., Ekström S., Eggenberger P.,

Georgy C., Wade G. A., and Qin Y.
(2022) A&A **657** A60 – arXiv:2108.13734 [ADS]

[11] IONIZING PHOTON PRODUCTION OF POPULATION III STARS: EFFECTS OF ROTATION, CONVECTION, AND INITIAL MASS FUNCTION.
Murphy Laura J., Groh Jose H., Farrell Eoin, Meynet Georges, Ekström Sylvia, Tsiatsiou Sophie, Hackett Alexander, and Martinet Sébastien.
(2021) MNRAS **506** 5731 – arXiv:2105.06900 [ADS]

[12] GRIDS OF STELLAR MODELS WITH ROTATION. VI. MODELS FROM 0.8 TO 120 $M_{\odot}$ AT A METALLICITY Z = 0.006.
Eggenberger Patrick, Ekström Sylvia, Georgy Cyril, Martinet Sébastien, Pezzotti Camilla, Nandal Devesh, Meynet Georges, Buldgen Gaël, Salmon Sébastien, Haemmerlé Lionel, Maeder André, Hirschi Raphael, Yusof Norhasliza, Groh José, Farrell Eoin, Murphy Laura, and Choplin Arthur.
(2021) A&A **652** A137 [ADS]

[13] STAR-PLANET INTERACTIONS. VI. TIDES, STELLAR ACTIVITY, AND PLANETARY EVAPORATION.
Rao Suvrat, Pezzotti Camilla, Meynet Georges, Eggenberger Patrick, Buldgen Gaël, Mordasini Christoph, Bourrier Vincent, Ekström Sylvia, and Georgy Cyril.
(2021) A&A **651** A50 – arXiv:2104.07397 [ADS]

[14] CONVECTIVE CORE ENTRAINMENT IN 1D MAIN-SEQUENCE STELLAR MODELS.
Scott L. J. A., Hirschi R., Georgy C., Arnett W. D., Meakin C., Kaiser E. A., Ekström S., and Yusof N.
(2021) MNRAS **503** 4208 [ADS]

[15] MASSIVE STAR MODELLING AND NUCLEOSYNTHESIS.
Ekström Sylvia.
(2021) Frontiers in Astronomy and Space Sciences **8** 53 [ADS]

[16] CONVECTIVE CORE SIZES IN ROTATING MASSIVE STARS. I. CONSTRAINTS FROM SOLAR METALLICITY OB FIELD STARS.
Martinet S., Meynet G., Ekström S., Simón-Díaz S., Holgado G., Castro N., Georgy C., Eggenberger P., Buldgen G., Salmon S., Hirschi R., Groh J., Farrell E., and Murphy L.
(2021) A&A **648** A126 – arXiv:2103.03672 [ADS]

[17] IS GW190521 THE MERGER OF BLACK HOLES FROM THE FIRST STELLAR GENERATIONS?
Farrell Eoin, Groh Jose H., Hirschi Raphael, Murphy Laura, Kaiser Etienne, Ekström Sylvia, Georgy Cyril, and Meynet Georges.
(2021) MNRAS **502** L40 – arXiv:2009.06585 [ADS]

[18] GRIDS OF STELLAR MODELS WITH ROTATION. V. MODELS FROM 1.7 TO 120 $M_{\odot}$ AT ZERO METALLICITY.
Murphy Laura J., Groh Jose H., Ekström Sylvia, Meynet Georges, Pezzotti Camila, Georgy Cyril, Choplin Arthur, Eggenberger Patrick, Farrell Eoin, Haemmerlé Lionel, Hirschi Raphael, Maeder André, and Martinet Sebastién.
(2021) MNRAS **501** 2745 – arXiv:2012.07420 [ADS]

[19] THE ENERGY TRANSPORT INDUCED BY HORIZONTAL TURBULENCE IN ROTATING W-TYPE W UMA CONTACT BINARIES.
Song Hanfeng, Meynet Georges, Maeder Andre, Peng Weiguo, Long Gang, Zhang Ruiyu, Ekström Sylvia, Georgy Cyril, and Huang Runqian.
(2020) ApJ **905** 39 [ADS]

[20] APSIDAL MOTION IN THE MASSIVE BINARY HD 152248.
Rosu S., Rauw G., Conroy K. E., Gosset E., Manfroid J., and Royer P.
(2020) A&A **635** A145 – arXiv:2002.01271 [ADS]

[21] MASSIVE BLACK HOLES REGULATED BY LUMINOUS BLUE VARIABLE MASS LOSS AND MAGNETIC FIELDS.
Groh Jose H., Farrell Eoin J., Meynet Georges, Smith Nathan, Murphy Laura, Allan Andrew P., Georgy Cyril, and Ekström Sylvia.
(2020) ApJ **900** 98 – arXiv:1912.00994 [ADS]

[22] SNAPSHOT: CONNECTIONS BETWEEN INTERNAL AND SURFACE PROPERTIES OF MASSIVE STARS.
Farrell Eoin J., Groh Jose H., Meynet Georges, Eldridge J. J., Ekström Sylvia, and Georgy Cyril.
(2020) MNRAS **495** 4659 – arXiv:2005.06454 [ADS]

[23] EVOLUTIONARY ROADS LEADING TO LOW EFFECTIVE SPINS, HIGH BLACK HOLE MASSES, AND O1/O2 RATES FOR LIGO/VIRGO BINARY BLACK HOLES.
Belczynski K., Klencki J., Fields C. E., Olejak A., Berti E., Meynet G., Fryer C. L., Holz D. E., O'Shaughnessy R., Brown D. A., Bulik T., Leung S. C., Nomoto K., Madau P., Hirschi R., Kaiser E., Jones S., Mondal S., Chruslinska M., Drozda P., Gerosa D., Doctor Z., Giersz M., Ekstrom S., Georgy C., Askar A., Baibhav V., Wysocki D., Natan T., Farr W. M., Wiktorowicz G., Coleman Miller M., Farr B., and Lasota J. P.
(2020) A&A **636** A104 – arXiv:1706.07053 [ADS]

[24] THE LUMINOSITY FUNCTION OF RED SUPERGIANTS IN M31.
Neugent Kathryn F., Massey Philip, Georgy Cyril, Drout Maria R., Mommert Michael, Levesque Emily M., Meynet Georges, and Ekström Sylvia.
(2020) ApJ **889** 44 – arXiv:1911.10638 [ADS]

[25] GRIDS OF STELLAR MODELS WITH ROTATION. IV. MODELS FROM 1.7 TO 120 $M_\odot$ AT A METALLICITY Z = 0.0004.
Groh J. H., Ekström S., Georgy C., Meynet G., Choplin A., Eggenberger P., Hirschi R., Maeder A., Murphy L. J., Boian I., and Farrell E. J.
(2019) A&A **627** A24 – arXiv:1904.04009 [ADS]

[26] STELLAR MODELS AND ISOCHRONES FROM LOW-MASS TO MASSIVE STARS INCLUDING PRE-MAIN SEQUENCE PHASE WITH ACCRETION.
Haemmerlé L., Eggenberger P., Ekström S., Georgy C., Meynet G., Postel A., Audard M., Sørensen M., and Fragos T.
(2019) A&A **624** A137 – arXiv:1903.10550 [ADS]

[27] DISAPPEARANCE OF THE EXTENDED MAIN SEQUENCE TURN-OFF IN INTERMEDIATE AGE CLUSTERS AS A CONSEQUENCE OF MAGNETIC BRAKING.
Georgy C., Charbonnel C., Amard L., Bastian N., Ekström S., Lardo C., Palacios A., Eggenberger P., Cabrera-Ziri I., Gallet F., and Lagarde N.
(2019) A&A **622** A66 [ADS]

[28] ASTEROSEISMOLOGY OF EVOLVED STARS TO CONSTRAIN THE INTERNAL TRANSPORT OF ANGULAR MOMENTUM. I. EFFICIENCY OF TRANSPORT DURING THE SUBGIANT PHASE.
Eggenberger P., Deheuvels S., Miglio A., Ekström S., Georgy C., Meynet G., Lagarde N., Salmon S., Buldgen G., Montalbán J., Spada F., and Ballot J.
(2019) A&A **621** A66 – arXiv:1812.04995 [ADS]

[29] IMPACT OF BINARY INTERACTION ON THE EVOLUTION OF BLUE SUPERGIANTS. THE FLUX-WEIGHTED GRAVITY LUMINOSITY RELATIONSHIP AND EXTRAGALACTIC DISTANCE DETERMINATIONS.
Farrell E. J., Groh J. H., Meynet G., Kudritzki R., Eldridge J. J., Georgy C., Ekström S., and Yoon S. C.
(2019) A&A **621** A22 – arXiv:1810.01830 [ADS]

[30] EXTENDED MAIN SEQUENCE TURNOFFS IN OPEN CLUSTERS AS SEEN BY GAIA - I. NGC 2818 AND THE ROLE OF STELLAR ROTATION.
Bastian N., Kamann S., Cabrera-Ziri I., Georgy C., Ekström S., Charbonnel C., de Juan Ovelar M., and Usher C.
(2018) MNRAS **480** 3739 – arXiv:1807.10779 [ADS]

[31] NON-STANDARD S-PROCESS IN MASSIVE ROTATING STARS. YIELDS OF 10-150 $M_\odot$ MODELS AT Z = 10^{-3}.
Choplin Arthur, Hirschi Raphael, Meynet Georges, Ekström Sylvia, Chiappini Cristina, and Laird Alison.
(2018) A&A **618** A133 – arXiv:1807.06974 [ADS]

[32] STAR-PLANET INTERACTIONS. V. DYNAMICAL AND EQUILIBRIUM TIDES IN CONVECTIVE ZONES.
Rao Suvrat, Meynet Georges, Eggenberger Patrick, Haemmerlé Lionel, Privitera Giovanni, Georgy Cyril, Ekström Sylvia, and Mordasini Christoph.
(2018) A&A **618** A18 – arXiv:1807.01474 [ADS]

[33] Quiescent and Active Phases in Be Stars: A WISE Snapshot of Young Galactic Open Clusters.
Granada A., Jones C. E., Sigut T. A. A., Semaan T., Georgy C., Meynet G., and Ekström S.
(2018) AJ **155** 50 – arXiv:1712.05209 [ADS]

[34] Close binary evolution. II. Impact of tides, wind magnetic braking, and internal angular momentum transport.
Song H. F., Meynet G., Maeder A., Ekström S., Eggenberger P., Georgy C., Qin Y., Fragos T., Soerensen M., Barblan F., and Wade G. A.
(2017) A&A **609** A3 – arXiv:1709.01902 [ADS]

[35] Are some CEMP-s stars the daughters of spinstars?
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