

Annexe : liste des publications

Publications with referee

Published or submitted: 75, including 39 as first author

- Grandjean A., Lagrange A.-M., **Meunier N.**, Chauvin G., Borgniet S., Desidera S., Galland F., Kiefer F., Messina S., Nicholson B., Pantoja B, Rubini P., Sedaghati E., Sterzik M, Zicher N., A HARPS RV search for planets in the Sco-Cen association. A combination with the HARPS YNS and the SOPHIE YNS surveys. 2021, soumis A & A
- Haywood R., Milbourne T., Saar S., Mortier A., Philipps D., Charbonneau D., Collier Cameron A., Cegla H.M., **Meunier N.**, Palumbo III M.L., The unsigned magnetic flux as a proxy for radial-velocity variations in Sun-like stars, soumis à ApJ
- Grandjean A., Lagrange A.-M., **Meunier N.**, Rubini P., Desidera S., Galland F., Borgniet S., Zicher N., Messina S., Chauvin G., Sterzik M, Pantoja B, A SOPHIE RV search for planets around young nearby stars (YNS). A combination with the HARPS YNS survey. 2021, A & A 650, A39
- **Meunier N.**, Lagrange A.-M., *Borgniet S.*, Activity time series of old stars from late F to early K V. Impact of activity on exoplanet detectability with high precision astrometry, 2020, A & A, 644, A77
- Lagrange A.M., Rubini P., Nowak M., Lacour S., Grandjean A., Boccaletti A., Langlois M., Beust H., **Meunier N.**, Gratton R., Delorme P., Flasseur O., and et al., Unveiling the beta Pictoris system, coupling High Contrast Imaging, Interferometric, and Radial Velocity data, 2020, A & A 642, A18
- **Meunier N.**, Lagrange A.-M., The effects of granulation and supergranulation on Earth mass planet detectability in the habitable zone around F6-K4 stars, 2020, A & A 642, A157
- Hojjatpanah S., Oshagh M., Figueira P., Santos N.C., Amazo-Gómez E.M., Sousa S.G., Adibekyan V., Demangeon O., Faria J., Gomes da Silva J., **Meunier N.**, The correlation between photometric variability and Radial Velocity jitter based on TESS and HARPS, 2020, A & A 639, A35
- **Meunier N.**, Lagrange A.-M., Radial velocities variations due to meridional flows in the Sun and solar-type stars: impact on exoplanet detectability, 2020, A & A 638, A54
- Miklos, M., Milbourne T., Haywood R., Philipps D.F., Saar S.H., **Meunier N.** et al (18 co-authors), Testing the spectroscopic extraction of suppression of convective blueshift, 2020, ApJ 888, 177
- Grandjean A., Lagrange A.-M., Keppler M., **Meunier N.**, Mignon L., *Borgniet S.*, Chauvin G., Desidera S., Galland F., Messina S., Sterzik M, Pantoja, Rodet L, Zicher N., A HARPS RV search for planets around young stars. 2020, A & A 633, A44
- **Meunier N.**, Lagrange A.-M., *Cuzacq S.*, Activity time series of old stars from late F to early K IV. Limits of the correction of radial velocities using chromospheric emission, 2019, A & A 632, A81
- **Meunier N.**, Lagrange A.-M., Activity time series of old stars from late F to early K III. Diagnosis from photometry, 2019, A & A 629, A42
- Grandjean A., Lagrange A.-M., Beust H., Rodet L., Milli J., Rubini P., Babusiaux C., **Meunier N.**, et al (20 autres co-auteurs), Constraining the properties of HD206893B. A combination of radial velocity, direct imaging and astrometry data, 2019, A & A 627, L9
- **Meunier N.**, Lagrange A.-M., Activity time series of old stars from late F to early K II. Radial velocity jitters and exoplanet detectability, 2019 A&A 628, A125
- Lagrange A.-M., **Meunier N.**, Rubini P., Keppler M., Galland F., Chapellier E., Michel E., Balona L., Beust H., Guillot T., Mekarnia D. et al. (12 autres co-auteurs), Hints for an additional planet in the β Pictoris system, 2019, Nature Astronomy 3, 1135
- **Meunier N.**, Lagrange A.-M., *Boulet Th.*, *Borgniet S.*, Activity time series of old stars from late F to early K I. Simulating radial velocities, astrometry, photometry and chromospheric emission and first results, 2019, A&A 627, A56
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- **Meunier N.**, Lagrange A.-M., Unexpectedly strong effect of supergranulation on the detectability of Earth twins orbiting Sun-like stars with radial velocities, 2019, A&A Letters 625, L6
- *Borgniet S.*, Lagrange A.-M., **Meunier N.**, Extrasolar planets and brown dwarfs around AF-type stars. X. The giant planet mass-period distribution around AF-type stars, 2018, A & A 621, A87
- Bonnefoy M., Perraut K., Lagrange A.-M., Delorme P., et al (76 autres co-auteurs dont **Meunier N.**), The GJ 504 system revisited. Combining interferometry, radial velocity and high contrast imaging, 2018, A & A 618, A63
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- Lagrange A.-M., Keppler M., **Meunier N.**, Lannier J., *Borgniet S.*, Beust H., Delorme P., Bonavita M.A., Full exploration of giant planets population around β Pictoris, 2018, A & A Letters 612, A108
- Lagrange A.-M., Keppler M., Beust H., Rodet L., **Meunier N.**, Lillo-Box J., Bonnefoy M., and Galland F., Discovery of a stellar companion to HD131399A. 2017, A & A 608, L9
- **Meunier N.**, *Mignon L.*, Lagrange A.-M., Variability of the stellar granulation and convective blueshift with spectral type and magnetic activity. II. From young to old main sequence F-K-G stars, 2017 A & A 607, A124
- **Meunier N.**, Lagrange A.-M., *Borgniet S.*, A new method of correcting radial velocity time series for inhomogeneous convection, 2017, A & A 607, A6
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- **Meunier N.**, Lagrange A.-M., *Mbemba L.K.*, *Alex M.*, *Mignon L.*, *Borgniet S.*, Variability of the stellar granulation and convective blueshift with spectral type and magnetic activity I. K and G main sequence stars, 2017, A & A 597, A52
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- Bonnefoy M., Marleau G.-D., Galicher R. et al (13 autres co-auteurs dont **Meunier N.**), Physical and Orbital properties of β Pic b, 2014, A & A Letters 567, L9
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- **Meunier N.**, Lagrange A.-M., Using the Sun to estimate Earth-like planets detection capabilities in RV data. IV. Correcting for the convective component, 2013, A & A 511, A101
- **Meunier N.**, Lagrange A.-M., De Bondt K., Comparison of different exoplanet detection limits methods using a sample of main sequence intermediate type stars, A & A 545, A87, 2012
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- **Meunier N.**, Lagrange A.-M., Desort M., Using the sun to estimate Earth-like planets detection capabilities. II. Impact of plages, 2010, A & A 512, A39
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- Lagrange A.-M., Desort M., **Meunier N.**, Using the sun to estimate Earth-like planets detection capabilities. I. Impact of cold spots, 2010, A & A, 512, A38
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- **Meunier N.**, Delfosse X., On the correlation between Ca and H α solar emission and consequences for stellar activity observations, 2009, A & A 501, 1103
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- **Meunier N.** & Kosovichev A., Fast photospheric flows and magnetic field in a flaring active region, 2003, A & A 412, 541
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Contributions to conferences with proceedings

- **Meunier N.**, Lagrange A.-M., The impact of surface flows at different scales: exoplanet detectability in radial velocity and high precision astrometry, SF2A Juin 2021, presentation orale, session Activité stellaire, proceedings à venir
- **Meunier N.**, Lagrange A.-M., From the Sun to solar-type stars: radial velocity, photometry, astrometry and LogR'HK time series for late-F to early-K old stars, 2019, Symposium IAU 354, Copiapo, Chili, Juin-Juillet 2019 (présentation orale)
- Delorme Ph., **Meunier N.**, Albert S., Lagadec E. et al., The SPHERE Data Center: A reference for high contrast imaging processing, SF2A Juin 2017 (*présentation orale par Ph. Delorme*)
- **Meunier N.**, National observation services at OSUG and construction of a data center and a mutualisation information system, SF2A June 2016 (présentation orale **invitée**, on-line proceedings, p483)
- **Meunier N.**, Lagrange A.-M., Mbemba L.K., Alex M., Mignon L., Borgniet S., Variability of stellar granulation and convective blueshift with spectral type and magnetic activity, CoolStar 19 (plenary session talk, on-line proceedings)
- *Borgniet S.*, Lagrange A.-M., **Meunier N.**, Beust H., Constraining the orbital properties of Beta Pictoris b with HARPS in radial velocity data, dans Thirty years of beta Pic and debris disks studies, IAP Sept 8-12 2014, eds. A.-M. Lagrange & A Boccaletti
- *Borgniet S.*, **Meunier N.**, Lagrange A.-M., A fully parametrized model of the activity pattern of a solar-like star, Cool Stars conference Flagstaff, 9-13 Juin 2014 (présentation orale S. Borgniet)
- **Meunier N.**, Lagrange A.-M., Using the Sun to study the impact of stellar activity on exoplanet detectability, CoolStars 17, Barcelone, Juin 2012 (contributed talk, *Astronomische Nachrichten **article à comité de lecture***)
- Lagrange A.-M., **Meunier N.**, Desort M., Detectability of Earth mass planets with RV technics around Sun-like stars, Octobre 2010, IAU Symposium 276, "The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution", Turin (poster), IAU 276, 537
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- **Meunier N.**, Photospheric flows and magnetic fields (observations), 2008, The origin and dynamics of solar magnetism (revue, sur *invitation* seulement), ISSI, Bern, **invité**, paper **Meunier & Zhao**, Space Science Reviews 144, 127 (*article à comité de lecture*)
- T. Roudier, J.-M. Malherbe, M. Svanda, G. Molodij, S. Keil, P. Sutterin, P. Schmieder, V. Bommier, G. Aulanier, **N. Meunier**, M. Rieutord, S. Rondi, Photospheric flows around a quiescent filament at large and small scale and their effects on filament destabilization, SF2A 2008, p 569
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- **Meunier N.** & équipe BASS2000, BASS2000: status, services and projects, Journées SF2A 2005, Strasbourg, eds. F. Casoli, T. Contini, J.M. Hameury, L. Pagani, p 169
- **Meunier N.**, *Rondi S.*, Tkaczuk R., Rieutord M. & Beigbeder F., CALAS: CAmera for the Large Scales of the solar surface, 2005, 22th Solar Sacramento Peak Workshop, Octobre 2004, ASP Conf. Series 346, p 169
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- **Meunier N.**, Photospheric magnetic field structures derived from THEMIS spectroscopic observations, 2nd Franco-Chinese meeting, Meudon 2002 (*invitée*), p 26
- **Meunier N.**, Observations of solar photospheric magnetic fields and differential rotation, Solar and Stellar Magnetism, Toulouse 2002 (*invitée*), p 159
- **Meunier N.** & Kosovichev A., Velocity fields in a flaring active region, 2003, in "THEMIS workshop", Toulouse, 2002, p 79
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- **Meunier N.** & Jefferies S. M., Modeling the solar oscillation l-nu power spectrum, SOHO6/GONG 98 Meeting (Boston), Structure and Dynamics of the Interior of the Sun and Sun-like Stars, ESA SP-418, p 267 (poster)
- **Meunier N.**, Nesme-Ribes E. & Collin B., Observational study of turbulence in magnetic regions, Colloque ASPE 96 (Tenerife) 2-6 Octobre 1996, poster publié dans le rapport annuel JOSO 1996
- Livingston W., Wallace L., Gray D., Huang Y., **Meunier N.**, Solanki S., White D. & Wang Y., Long-term Trends in Solar indices, Hermosilla, April 1996

Contributions to conference with no proceedings

- **Meunier N.**, Impact de l'activité stellaire sur la détectabilité des exoplanètes en vitesse radiale, Exosystèmes I, Paris, Janvier 2020 (*invitée*)
- **Meunier N.**, Lagrange A.-M., Search for Earth analogues in the habitable zone around solar type stars: radial velocity or astrometry?, Extreme Solar System IV, Reykjavik, Islande, Août 2019 (poster)
- **Meunier N.**, Recent advances in spot modelling, PLATO STESCI workshop III, Novembre 2019, Barcelona (*invitée*)
- **Meunier N.**, Mitigating stellar signals to reveal other Earths, Conference "Extreme Precision in Radial Velocity IV", Grindelwald, Mars 2019, (*invitée*)
- **Meunier N.**, From the Sun to others stars: radial velocity time series for late-F to early-K old stars, invited talk session "Line profile & RV jitter", Workshop "Observing the Sun as a Star: Would we find the solar system if we saw it?", Goettingen, Septembre 2018 (*invitée*)
- **Meunier N.**, Simulation of photometric time series: from the Sun to the stars, invited talk session "Stellar Brightness Variations: building on the solar knowledge" Coolstar 20, Boston, 2018 (*invitée*)
- **Meunier N.**, La détection d'exoplanètes noyées dans le bruit stellaire (Plato-France février 2018, Nice, *invitée*)
- *Gravet R.*, **Meunier N.**, *Mignon L.*, *Kretzschmar M.*, *Delfosse X.*, How can the Sun explain the correlations between CaII and H α emissions of stars?, 2018 Sun-Climate Symposium, Mars 2018 (poster présenté par R. Gravet)
- **Meunier N.**, *Borgniet S.*, *Lagrange A.-M.*, *Rieutord M.*, Simulation of granulation and supergranulation radial velocity and photometric time series, Cool Stars 18 conference Flagstaff, 9-13 Juin 2014 (poster)
- *Borgniet S.*, **Meunier N.**, *Lagrange A.-M.*, A fully parametrized model of the activity pattern of a solar-like star, Exoplanet Observations with the EELT, 3-6 Février 2014 (présentation orale S. Borgniet)
- *Borgniet S.*, *Lagrange A.-M.*, *Galland F.*, **Meunier N.**, Giant planets and brown dwarfs around A-F type stars: a Harps survey, Exoplanet UK Community meeting, Avril 2014 (poster S. Borgniet)
- *Borgniet S.*, *Lagrange A.-M.*, *Galland F.*, **Meunier N.**, Searching for giant planets and brown dwarfs around massive A-F type stars with SOPHIE, SF2A annual meeting (Paris), Juin 2014 (poster S. Borgniet)
- **Meunier N.**, *Lagrange A.-M.*, Using the Sun to study the impact of stellar activity on exoplanet detectability, IMI 2012, Grenoble
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