

Journal Publications (145 in total, 22 first author)

2018

- [] *Obscured hot stars in the direction between M16 and M17: a distant OB association around RAFGL 5475*
Comeron F., Djupvik A.A., Torra J., **Schneider N.**, Pasquali A., **2018**, A&A, in prep.
- [] *How the power spectrum of dust continuum images may hide the presence of a characteristic filament width*
Roy A., André Ph., Arzoumanian D., Miville-Deschenes M.-A., Könyves V., **Schneider N.**, et al., **2018**, A&A, submitted
- [] *Characterizing the properties of nearby molecular filaments observed with Herschel*
Arzoumanian D., André Ph., Könyves V., Palmeirim P., Roy A., **Schneider N.** **2018**, A&A, submitted
- [] *Anatomy of the massive star-forming region S106*
I. The [OI] 63 μ m line observed with upGREAT/SOFIA as a versatile diagnostic tool for the evolution of massive stars
Schneider N., et al., **2018**, A&A, submitted
- [] *OH absorption in the first quadrant of the Milky Way*
Rugel M., Beuther H., Bihl S.,...**Schneider N.**, et al., **2018**, A&A, submitted
- [145] *Clump populations in Rosette extracted by alternative algorithms: I. Gaussclumps*
Veltchev T.V., Ossenkopf V., Stanchev O., **Schneider N.**, Donkov S., Klessen,R.S., **2018**, MNRAS, 475, 2215
- [144] *The ionizing source of the bipolar HII region S106: a close massive binary*
Comeron F., **Schneider N.**, Djupvik A.A., Schnugg, C. **2018**, A&A, in press, astro-ph:1801.08958
- [143] *The dense cores and filamentary structure of the molecular cloud in Corona Australis: Herschel SPIRE and PACS observations from the HGBS*
Bresnahan D., Ward-Thompson D., Kirk, J.M., ..., **Schneider N.**, et al., **2018**, A&A, in press, astro-ph:1801.07805

2017

- [142] *A large scale map of mm hydrogen recombination lines around a super star cluster*
Nguyen-Luong, Q., Andreson L.D., Motte F. ,...**Schneider N.**, et al., **2017**, ApJ, 844, L25
- [141] *Multitemperature mapping of dust structures throughout the Galactic Plane using the PPMAP tool with Herschel Hi-GAL data*
Marsh K.A., Whitworth A.P., Lomax O., ..., **Schneider N.**, et al., **2017**, MNRAS, 471, 2730
- [140] *Far-infrared observations of a massive cluster forming in the Monoceros R2 filament hub*
Rayner T., Griffin M.J., **Schneider N.**, et al., **2017**, A&A, 2017, 607, 22
- [139] *First detection of THz water maser in NGC7538-IRS1 with SOFIA and new 22 GHz e-MERLIN maps*
Herpin F., Baudry A., Richards A., Gray M.,**Schneider N.**, et al., **2017**, A&A, 606, 52
- [138] *The Hi-GAL compact source catalog. I. The physical properties of the clumps in the inner Galaxy*
Elia D., Molinari S., Schisano E., ... **Schneider N.**, et al., **2017**, MNRAS, 471, 100
- [137] *Testing the universality of the star formation efficiency in dense molecular gas*
Shimajiri Y., ...**Schneider N.**, et al., **2017**, A&A, 604, 74
- [136] *Star formation towards the Galactic HII region RCW120*
Figueira M., Zavagno A., Deharveng L., Russeil D., Anderson L.D., Mens'chikov A., **Schneider N.**, et al., **2017**, A&A, 600, 93

[135] *Herschel observations of the Galactic HII region RCW79*

Liu H.-L., Figueira M., Zavagno A., Hill T., **Schneider N.**, et al., **2017**, A&A, 602, 95

[134] *The massive cores in NGC6334: the Herschel-HOBYS view*

Tigé J., Motte F., Russeil D., Zavagno, A., Hennemann, M., **Schneider N.**, et al., **2017**, A&A, 602, 77

[133] *Globules and Pillars in Cygnus X*

II. Massive star formation in the globule IRAS 20319+3958

Djupvik A.A., Comerón F., **Schneider N.**, **2017**, A&A, 599, 37

2016

[132] *The scaling relations and star formations laws of ministarburst complexes*

Nguyen-Luong Q., Nguyen H.V.V., Motte F., **Schneider N.**, et al., **2016**, ApJ, 833, 23

[131] *The HI/OH/Recombination Line survey of the inner milky way: Survey overview and data release 1*

Beuther H., Bühr S., Rugel M., ... **Schneider N.**, **2016**, A&A, 595, 32

[130] *SiO tracing extended low-velocity shocks: Case study of the W43-MM1 ridge*

Louvet F., Motte F., Gusdorf A., et al., **Schneider N.**, **2016**, A&A, 595, 122

[129] *The JCMT Gould Belt survey: evidence for dust grain evolution in Perseus star-forming clumps*

Chen M.C., Di Francesco J., Johnstone D.,... **Schneider N.**, et al. **2016**, ApJ, 826, 95

[128] *Characterizing filaments in regions of high-mass star formation: high resolution submm imaging of the massive star-forming region complex NGC6334 with Artemis*

André Ph., Revéret V., et al., **Schneider N.**, **2016**, A&A, 592, 54

[127] *Photoevaporation and close encounters: how the environment affects the evolution of protoplanetary disks in Cygnus OB2*

Guarcello M.G., ..., **Schneider N.**, et al., **2016**, A&A, in press, astro-ph: 16050.1773

[126] *Globules and Pillars in Cygnus X: I. FIR-imaging of the Cyg OB2 environment*

Schneider N., Bontemps S., Motte F., et al., **2016**, A&A, 591, 40 (cover page)

[125] *On the reliability of observational measurements of column density probability distribution functions*

Ossenkopf-Okada V., Csengeri T., **Schneider N.**, Federrath C., Klessen R., **2016**, A&A, 590, 104

[124] *Filamentary structure and magnetic field orientation in Musca*

Cox N., Arzoumanian D., André Ph., ..., **Schneider N.**, et al., **2016**, A&A, 590, 110

[123] *Hi-GAL, the Herschel infrared Galactic Plane Survey: photometric maps and compact source catalogues*

Molinari S., Schisano E., Elia D., ... **Schneider N.**, et al., **2016**, A&A, 591, 149

[122] *A census of dense cores in the Taurus L1495 cloud from the Herschel Gould Belt Survey*

Marsh K.A., Kirk J.M., André Ph., ,... **Schneider N.**, et al., **2016**, MNRAS, 459, 342

[121] *NGC6334 and NGC6357: H α kinematics and the nature of the HII regions*

Russeil D., Tigé J., Adami C., Anderson L.D., **Schneider N.**, et al., **2016**, A&A, 587, 135

[120] *Understanding star formation in molecular clouds*

III. Probability distribution functions of molecular lines in Cygnus X

Schneider N., Bontemps S., Motte F., et al., **2016**, A&A, 587, 74

[119] *Red supergiants and the past of Cygnus OB2*

Comeron F., Djupvik A.A., **Schneider N.**, Pasquali A., **2016**, A&A, 586, 46

[118] *The ATLASGAL survey - distribution of cold dust in the Galactic plane
Combination with Planck data*

Csengeri T., Weiss A., Wyrowski F., et al., **Schneider N.**, 2016, A&A, 585, 104

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[117] *SOFIA/FORCAST observations of warm dust in S106: a fragmented environment*

Adams J.D., Herter T., Hora J., **Schneider N.**, et al., 2015, ApJ, 814, 54

[116] *Possible link between the power spectrum of interstellar filaments and the origin of the prestellar core mass function*, Roy A., André Ph., Arzoumanian D., ..., **Schneider N.**, et al., 2015, A&A, 584, 111

[115] *Detection of two power-law tails in the probability distribution functions of massive GMCs*

Schneider N., Bontemps S., Girichidis P., et al., 2015, MNRAS Letters, 453, L41

[114] *Herschel observations of the W3 GMC (II): Clues to the formation of clusters of high-mass stars*

Rivera-Ingraham A., Martin P.G., Polychroni D., **Schneider N.**, Motte F., et al., 2015, ApJ, 809, 81

[113] *Filaments in the Lupus molecular clouds*

Benedettini M., Schisano E., Pezzuto S., ..., **Schneider N.**, et al., 2015, MNRAS, 453, 2036

[112] *A census of dense cores in the Aquila cloud complex: SPIRE/PACS observations from the Herschel Gould Belt survey*

Könyves V., André Ph., Men'shchikov A., ..., **Schneider N.**, et al., 2015, A&A, 584, 91

[111] *Mon R2 HII regions structure and age puzzled out by Herschel*

Didelon P., ..., **Schneider N.**, et al., 2015, A&A, 584, 4

[110] *THOR - The HI, OH, recombination line survey of the Milky Way*

The pilot study - HI observations of the giant molecular cloud W43

Bihr S, Beuther H., Ott J., ..., **Schneider N.**, et al., 2015, A&A, 580, 112

[109] *Understanding star formation in molecular clouds*

II. Signatures of gravitational collapse of IRDCs

Schneider N., Csengeri T., Klessen R.S., et al., 2015, A&A, 578, 29

[108] *Understanding star formation in molecular clouds*

I. Effects of contamination on the column density structure

Schneider N., Ossenkopf V., Csengeri T., et al., 2015, A&A, 575, 79

[107] *First detection of CF⁺ towards a high-mass protostar*

Fechtenbaum S., Bontemps S., **Schneider N.**, et al., 2015, A&A Letter, 574, L4

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[106] *SiO emission from low- and high-velocity shocks in Cygnus-X massive dense clumps*

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[105] *Class 0 protostellar fraction and environment in the Perseus Molecular Cloud*

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[104] *Age, size, and position of HII regions in the Galaxy*

Tremblin P., ..., **Schneider N.**, et al., 2014, A&A, 568, 4

- [103] *The IRAM M33 CO(2-1) survey: a complete census of molecular gas out to 7 kpc*
Druard C., Braine J., Schuster K., **Schneider N.**, et al., **2014**, A&A, 567, 118
- [102] *Herschel's view of the large-scale structure in the Chamaeleon dark clouds*
Alves de Oliveira S., **Schneider N.**, et al. **2014**, A&A, 568, 98
- [101] *Properties of starless and prestellar cores in Taurus*
Marsh K.A., Griffin M., ... **Schneider N.**, **2014**, MNRAS, 439, 3683
- [100] *Characterizing the structure of diffuse emission in Hi-GAL maps*
Elia D., Strafella F., **Schneider N.**, et al., **2014**, ApJ, 788, 3
- [99] *The formation of the W43 complex: constraining its atomic-to-molecular transition and searching for colliding clouds*
Motte F., Nguyen-Luong Q., **Schneider N.**, et al., **2014**, A&A, 571, 32
- [98] *A Herschel and BIMA study of the sequential star formation near the W48A HII region*
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- [97] *The dependence of protostellar luminosity on stellar density in the Cygnus X star-forming complex*
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- [96] *The impact of compression by ionization on the density structure of molecular clouds*
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- [95] *Reconstructing the density and temperature structure of prestellar cores from Herschel data: a case study for B68 and L1689B*
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- [93] *CO outflows from high-mass Class 0 protostars in Cygnus X*
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- [92] *Large scale CO-observations in the giant molecular cloud complex W43*
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- [91] *Low-velocity shocks along the W43 ridges: witnessing the formation of a young massive cluster*
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- [90] *Two mass distributions in the L1641 molecular clouds: the Herschel connection of dense cores and filaments in Orion A*
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- [89] *Pillars and globules at the edges of HII-regions*
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- [88] *The first Hi-GAL observations of the outer Galaxy*
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- [87] *Young stellar clusters in the Rosette molecular cloud*
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- [86] *Herschel reveals massive cold clumps in NGC7538*
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- [85] *Global collapse of molecular clouds as a formation mechanism for the most massive stars*
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- [84] *First results from the Herschel Gould Belt survey in Taurus*
Kirk J., ...**Schneider N.**, **2013**, MNRAS, 432, 1424
- [83] *The Herschel view of the massive star forming region NGC6334*
Russeil D., **Schneider N.**, et al., **2013**, A&A, 554, 42
- [82] *Constraining dust properties in the Perseus B1 Clump with PACS, SPIRE, and SCUBA-2*
Sadavoy S., ...**Schneider N.**, **2013**, ApJ, 767, 126
- [81] *What determines the density structure of molecular clouds ? A case study of Orion B*
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- [80] *Herschel observations of the W3 GMC: Clues to the formation of clusters of high-mass stars*
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- [79] *The impact of a high-mass star cluster on a molecular ridge*
Minier V., Tremblin P., Hill T., Motte F., André P., Lo N., **Schneider N.**, et al. **2013**, A&A, 550, 50
- [78] *Changes of dust opacity with density in the Orion A molecular cloud*
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- [77] *Evidence for the growth of the Taurus B211 filament based on Herschel observations*
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- [70] *Globules and pillars seen in the [CII] 158 μ m line with SOFIA*
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- [68] *3D simulations of pillar formation around HII regions: turbulence and shock curvature*
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- [67] *A multi-scale, multi-wavelength source extraction method: getsources*
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- [65] *M16 under the influence of NGC6611: Herschel's perspective of the heating effect on the Eagle Nebula*
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- [64] *The Herschel view of the on-going star formation in the Vela-C molecular cloud*
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- [63] *Herschel observations of a potential core-forming clump: Perseus B1-E*
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- [62] *Statistical study of OB stars in NGC 6334 and NGC 6357*
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- [61] *3D simulations of pillar formation around HII regions: the importance of shock curvature*
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- [60] *Site testing for submillimetre astronomy at Dome C in Antarctica*
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- [59] *A Herschel view of massive star formation in G035.3-0.3:a dense and cold filament of W48 undergoing a starburst ?*
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- [56] *The link between molecular cloud structure and turbulence*
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- [55] *Characterizing interstellar filaments with Herschel in IC5146*
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- [54] *W43, the closest molecular complex of the Galactic Bar*
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- [53] *Gas dynamics in massive dense cores in Cygnus X*
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- [50] *A Spitzer view of Star Formation in the Cygnus X North Complex*
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- [49] *Herschel-SPIRE observations of the Polaris flare: structure of the diffuse ISM at the sub-pc scale*
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- [48] *Galactic cold cores: Herschel study of first Planck detections*
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- [47] *The Herschel-SPIRE instrument and its In-Flight Performance*
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- [46] *Herschel observations of the W43 mini-starburst*
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- [45] *Cirrus, Clouds, Filaments and Protopostars: the Hi-GAL Milky Way with Herschel*
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- [44] *Herschel-SPIRE spectroscopy of the DR21 Molecular Cloud Core*
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- [43] *A Herschel study of the properties of starless cores in the Polaris Flare dark cloud region using PACS and SPIRE*
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- [42] *HIFI observations of warm gas in DR21: Shock versus radiative heating*
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