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Biography

My areas of interest are two: the interstellar medium and the extra-solar planets. In fact, the dust mass budget in galaxies is still facing a severe problem, which is simply summarized in the observation that dust destruction mechanisms are much more efficient than dust production ones. Supernova remnants are now recognized as an important contributor of dust, however measuring their yield has proven problematic due to modeling uncertainties. I propose to use high resolution observations for a better understanding of this subject. My second research area and passion and as a scientific member of the JWST, the NASA/ ESA satellite, will be launched on October 2018. I work on detecting, confirming and characterizing extra-solar planets.

Peer-reviewed Journals

- Gry, C., Boulanger, F., Nehmé, C., Pineau des Forêts, G., Habart, E. and Falgarone, E. H₂ formation and excitation in the diffuse interstellar medium. *A&A* (2002) 391, 675
- F. Le Petit, C. Nehmé, J. Le Boulrot and E. Roueff A Model for atomic and Interstellar gas: the Meudon PDR Code, *AJSS*, 2006
- Nehmé, C., Gry, C., Le Boulrot, J., Boulanger, F., Pineau des Forêts, G. and Edith Falgarone Multi-wavelength observations of a nearby multi-phase interstellar cloud *A&A* (2008).
- Nehmé, C., Le Boulrot, J., Boulanger, F., Pineau des Forêts, G. and Gry, C. Modeling of diffuse molecular gas applied to HD 102065 observations *A&A* (2008).
- J.C. Gérard, C. Cox, A.Saglam, J.L. Bertaux, E. Villard and C. Nehmé Limb observations of the ultraviolet nitric oxide nightglow with SPICAV on board Venus Express. *JGR* (2008) VOL. 113.

Peer-reviewed Conference Proceedings

- Sarkis, P.; Nehmé, C. Transit-Depth Metallicity Correlation: A Bayesian Approach, SF2a, 2015.
- Sarkis, P. and Nehmé, C. Revising the Transit Depth-Metallicity Correlation of Kepler's Giant Candidates, IAU 2015, Hawaiï.
- Nehmé, C. On the 4th International Occultation workshop and Eclipse, Teheran IRAN, 22- 30 October 2013.
- Gry, Cécile; Nehmé, Cyrine; Boulanger, François; Lebourlot, Jacques; Des Forêts, Guillaume Pineau; Falgarone, Edith. 2009. Supernova Impact on a Molecular Cloud in the Local Bubble.
- Nehmé, Cyrine; Gry, Cecile; Boulanger, François; Pineau Des Forêts, Guillaume; Habart, Emilie; Falgarone, Edith. 2003. H₂ Formation and Excitation in the Diffuse Interstellar Medium.
- How does the Galaxy work? Instituto de Astrofísica, Granada, Spain, 23-27, June, 2003.
- Chemistry as a Diagnostic of star formation. University of Waterloo, Canada, 21-29 August 2002.
- Exploiting the ISO Data Archive, 17 July 2002, Siguenza, Spain.
- Gaseous Matter in Galaxies and Intergalactic Space: observational and theoretical results, with special emphasis on new data from FUSE, HST and VLT. Institut d'Astrophysique de Paris (IAP), France, 17 – 23 June 2001- PCMI,

2002, (Bordeaux - France)

- The Local Bubble and Beyond II (Poster participation), Philadelphia, April 21-24, 2008.

SPIE and ASP JWST Journals

- Beard, S.; Morin, J.; Gastaud, R.; Azzollini, R.; Bouchet, P.; Chaintreuil, S.; Lahuis, F.; Littlejohns, O.; Nehme, C.; Pye, J. SCASim: A Flexible and Reusable Detector Simulator for the MIRI instrument of the JWST, ASP 2012.
- Guillard P., Rodet T., Ronayette S., Amiaux J., Abergel A., Moreau V., Auguères J.-L., Bensalem A., Orduna T., Nehmé C. et al. Optical performance of the JWST/MIRI flight model: characterization of the point spread function at high resolution. SPIE(2010).
- S. Ronayette, C. Cavarroc, S. Kendrew, J. Amiaux, J.-L. Auguères, M. Bouzat, P. Guillard, V.
- Moreau, E. Pantin, P. Bouchet, A. Bensalem, T. Orduna, P.-O. Lagage, C. Nehme, A. Belu, A. Glasse, P. Baudoz, D. Dubreuil Performance verification of the MIRI Imager flight model at CEA SPIE (2010).

Exhibitions, Competitions and Creative Work

- Organizing: Mars Water Cycle Workshop, 21-23 April 2008, Paris. . (<http://www.aero.jussieu.fr/info-pratique/seminaire/MarsWC-Site>)
- Member of the Organizing committee : Astronomy Summer SS14 , Astronomy with Small telescopes at NDU – louaize <https://www.facebook.com/astross2014/>
- Member of the Organizing committee: THE THIRD MIDDLE-EAST AND AFRICA REGIONAL IAU MEETING, 2014 [HTTP://WWW.MEARIM3.ORG/](http://WWW.MEARIM3.ORG/)
- Member of the organizing committee: 2ème edition , Festival d'astronomie de Fleurance au Liban , October 2016, <https://www.facebook.com/festivalastroliban/>