

# Nicolas Scepi

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Date of birth : 6 october 1992, French

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PhD student at IPAG (Université Grenoble Alpes)

## Research interests

*Objects:* Accretion disks, dwarf novae, X-ray binaries, protoplanetary disks, winds, jets

*Processes:* accretion, disk instabilities, plasma instabilities, turbulence, convection, state transitions

*Methods:* MHD simulations, radiative transfer, phenomenological models, analytical approaches

## Education

since Oct. **PhD in Astrophysics**, *Institut de Planétologie et d'Astrophysique de Grenoble (IPAG)*, Subject: Transport of angular momentum in accretion disks of dwarf novae, *Supervisors: Guillaume Dubus and Geoffroy Lesur*.  
Defense planned in July 2019.

2015 – 2016 **Master specialization in Plasma Physics with highest honors**, *UPMC (Paris), Ecole polytechnique and Université Paris-Saclay*.

2010 – 2013 **Bachelor with high honors and Master in theoretical physics**, *Ecole normale supérieure (ENS) de Cachan*.

## Refereed Publications

Scepi, N., Lesur, G., Dubus, G. & Flock, M., Turbulent and wind-driven accretion in dwarf novae threaded by a large scale magnetic field, *A&A*, 620, A49, (2018b).  
**Selected as an A&A 2018 Highlight.**

Scepi, N., Lesur, G., Dubus, G. & Flock, M., Impact of convection and resistivity on angular momentum transport in dwarf novae, *A&A*, 609, A77, (2018a).

Durret, F., Adami, C., Bertin, E., Hao, J., Muez, I., Martinet, N., Maurogordato, S., Sauvaget, T., Scepi, N., Takey, A. & Ulmer, M. P., Galaxy clusters in the SDSS Stripe 82 based on photometric redshifts, *A&A*, 578, A79, (2015).

## Submitted Publications

Scepi, N., Dubus, G. & Lesur, G., Magnetic wind-driven accretion in dwarf novae, Arxiv e-prints 1812.02076, (2018c). Submitted to *A&A*.

## Presentations and Workshops

July 2019 Amsterdam (Netherlands), *"From winds to jets" Workshop*, Invited review talk on "Outflows from quiescent cold disks".

Nov. 2018 MPIA Heidelberg (Germany), Lab Seminar.

Oct. 2018 Autrans (France), *ANR CHAOS Workshop on X-ray binaries*, Contributed talk.

Oct. 2018 IAP Paris (France), *National high energy physics meeting*, Contributed talk.

July 2018 Pasadena (USA), *42nd COSPAR Scientific assembly in session: Nova eruptions, cataclysmic variables and related systems: observational vs. theoretical challenge*, Contributed talk.

July 2018 Oxford (UK), *70th birthday of John Papaloizou "Planets, Stars and Discs: A Golden Age for Particle and Gas Dynamics"*, Contributed talk.

July 2017 Paris (France), *SF2A in High energy physics session*, Contributed talk.

May 2017 Les Houches (France), *Workshop, From laboratories to astrophysics: the expanding universe of plasma physics*, Poster presentation.

## Teaching

2016 – 2018 Teaching assistant in geometrical optics and classical mechanics: 100 hours.

2014 – 2015 High school teacher in mathematics: 5 months.

## Institutional responsibilities

2017 – Elected member of IPAG laboratory council.

2017 – Organizer of bi-monthly PhD seminars.

## Referee activity

2018 – Referee of one A&A paper.