



AHMANE ZOUBIDA

Born on May 23rd, 1990

Batna – Algeria

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Scientific interests

- Theoretical star formation :
Accretion disk, Jets and Outflow.
- Computational fluid Dynamics:
HD, MHD and Ambipolar
diffusion.
- Inter-Stellar Medium :
Shock-Cloud Interaction, Collapse
of molecular cores.

Education

2020. PhD in Astrophysics & radiation physics

Title: Stellar simulation
using PLUTO code.

Supervisor: A. Bouldjedri.

Co-Supervisor: S. Massaglia.

Batna 1 University, Algeria.

Università degli studi di
torino, Italy.

2013. Masters in Matter and radiation Physics

Batna 1, University, Algeria

2010. Bachelor in Physics

Sciences of Matter Faculty

Current situation

28 October. 2020 – Now. Teaching at Batna 1 university

- Astrophysical fluid dynamics.
- Numerical analysis using Python.
- General astrophysics.
- Scientific english.

Publications

Ahmane, Z., Mignone, A., Zanni, C. et al. (2020) Simulations of
protostar-driven photoionization in Herbig-Haro jets. *Astrophys
Space Sci* 365, 94.

doi: <https://doi.org/10.1007/s10509-020-03808-3>

Oral communications

18/29 August 2014 : College on advanced plasma physics:

Accretion disc luminosity in different models , Poster
presentation. Trieste, Italy university.

24/25 May 2015 : 2eme journée d'étude des jeune scientifique :Jets
around young stellar objects YSO , Poster presentation Batna
university.

6 May 2015, Jets launching and propagation simulation. oral
presentation, Batna, Algeria.

23 May /1 June 2016, International astrophysical jet school:
Simulation of photoionisation effect into YSO, poster
presentation, Corsica, France .

March 2017, Incorporating ambipolar diffusion into PLUTO code,
poster presentation, Khnechela, Algeria.

Numerical tools

Python,C++,C ●●●○

HTML,Css ●●●○

Mathematica ●○○○

Linux ●●●○

LaTex ●●●○

PLUTO code ●●●○

Languages

Arabic ●●●●

French ●●●○

English ●●●○

Italian ●○○○

Professional Referee

Professor Silvano Massaglia

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Professor Abdelhamid Bouldjedri

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