AHMANE ZOUBIDA

Born on May 23rd, 1990

Batna – Algeria

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Scientific interests

○ Theoretical star formation : Accretion disk, Jets and Outflow.
○ Compututional 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.
Universita 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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