

CURRICULUM VITAE

Personal data

First Name: George

Last Name: Koundourakis

Nationality: Hellenic

Date of birth: 09/11/68

Place of birth: Rethymnon

Army Duties: Fulfilled

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Education

2014 till today : PHD candidate of the Kapodistrian University of Athens in collaboration with Center for Plasma Physics and Lasers (CPPL)

Thesis title: *"Magnetized jets in Astrophysics and laboratory"*

1990-1992 : University of Crete-Master degree candidate and diploma in *"Physics of condensed matter"*

1986-1990 : University of Crete- Physics student and diploma in Physics in September of 1990.

Professional activity

1995-2002 : Physics lessons for High school pupils and students

2002-2005 : Owner of Preparation school for High school pupils

2005-2015 : Physics lessons for High school pupils and students

Research projects

01.09.2016-30.09.2016: *"Participation in plasma simulations produced from optoelectronic devises producing large density and temperature plasma conditions ,concluding for the creation and evolution of MHD instabilities"* (T.E.I. of Crete, Centre for Plasma Physics & Lasers - CPPL)

Teaching expertise

1990-1991: Teaching mathematics and correcting the exercises for two semesters for first year students in Physics department of the University of Crete.

1995-2015: Preparation lessons in Physics, Chemistry and Mathematics in small groups or individually for High school pupils and University , Polytechnic school , TEI students.

Languages

Very good knowledge of English language(FIRST CERTIFICATE IN ENGLISH UNIVERSITY OF CAMBRIDGE/HIGHER CERTIFICATE IN ENGLISH BY PALSO EXAMINATIONS).

Very good use of the scientific language in English.

Computational programming

Very good use of WINDOWS, INTERNET ,WORD ,POWER POINT, EXCEL,MATLAB,COREL. Simulation programming of plasma devices in C and C++ language.

MOOCS

Phys2.1-Introduction in Relativity and Cosmology (15/2/2016 till

3/4/2016)/ Mathesis/CUP(ITE)/Verification certificate of passing in

http://mathesis.cup.gr/static/certs/Phys2.1/2016_T1/Phys2.1_2016_T1_2ebb34623d19b133d4c54b80d68a90d6.pdf

Phys3-Applied Quantum Mechanics (15/2/2016 till

5/6/2016)/Mathesis/CUP(ITE)/Verification certificate of passing in

http://mathesis.cup.gr/static/certs/Phys3.x/2016_T3/Phys3.x_2016_T3_2ebb34623d19b133d4c54b80d68a90d6.pdf

Phys3.2-Quantum Mechanics 2: Molecules (21/3/2016 till 24/4/2016) /

Mathesis/CUP(ITE)/Verification certificate of passing in

http://mathesis.cup.gr/static/certs/Phys3.2/2016_T2/Phys3.2_2016_T2_2ebb34623d19b133d4c54b80d68a90d6.pdf

Phys3.3-Quantum Mechanics 2: Solids (9/5/2016 till 5/6/2016) /

Mathesis/CUP(ITE)/ Verification certificate of passing in

http://mathesis.cup.gr/static/certs/Phys3.3/2016_T3/Phys3.3_2016_T3_2ebb34623d19b133d4c54b80d68a90d6.pdf

Phys1.1-Introduction in Quantum physics: Basic principles (26/09/2016 till 6/11/2016)/Mathesis/CUP(ITE)/ Verification certificate of passing in <http://mathesis.cup.gr/certificates/654f0f674bdd43e6b44227bef1a81f82>

Phys1.2-Introduction in Quantum physics: Basic applications (7/11/2016 till 1/1/2017)/Mathesis/CUP(ITE)/ Verification certificate of passing in <http://mathesis.cup.gr/certificates/318dfd54f2e447f6a649aca97b3f71d6>

Phys4.1-Classical Mechanics 1(13/2/2017 till 2/4/2017)/Mathesis/CUP(ITE)/ Verification certificate of passing in <http://mathesis.cup.gr/certificates/699e5fc45aeb45579033139c1cbaecd1>

ΦΛΣ1- Αρχαία ελληνική φιλοσοφία: Από τον Θαλή στον Αριστοτέλη (14/11/2016 till 25/12/2016)/ Mathesis/CUP(ITE)/ Verification certificate of passing in <http://mathesis.cup.gr/certificates/faf5aaa4a43b4451bcab2ca82039f4a4>

ΙΣΤ3.1- Παγκόσμια Ιστορία 1: Ο άνθρωπος απέναντι στη φύση (14/11/2016 till 11/12/2016)/ Mathesis/CUP(ITE)/ Verification certificate of passing in <http://mathesis.cup.gr/certificates/6e766354f65b42e98f99431eabe10490>

ΙΣΤ2.2-Πατήρ πάντων πόλεμος: Οι ελληνιστικοί πόλεμοι ως κοινωνικό και πολιτιστικό φαινόμενο (27/2/2017 till 2/4/2017)/ Mathesis/CUP(ITE)/ Verification certificate of passing in <http://mathesis.cup.gr/certificates/12c14489c3d84da08d7b5ccc116ca2ba>

ΙΣΤ3.2- Παγκόσμια Ιστορία 2: Ο άνθρωπος απέναντι στο Θείο (1/5/2017 till 2/7/2017)/ Mathesis/CUP(ITE)/ Verification certificate of passing in <http://mathesis.cup.gr/certificates/275e007c0bf74799914d806e335118c6>

Publications

Refereed Scientific journals

[1] E. Kaselouris, V. Dimitriou, I. Ftilis, A. Skoulakis, **G. Koundourakis**, E. L. Clark, J. Chatzakis, M. Bakarezos, I. K. Nikolos, N. A. Papadogiannis and M. Tatarakis , "**The influence of the solid to plasma phase transition on the generation of plasma instabilities**", *Nature Communications* **8**, 1713 (2017)

[2] E. Kaselouris, V. Dimitriou, I. Ftilis, A. Skoulakis, **G. Koundourakis**, E. L. Clark, J. Chatzakis , M. Bakarezos, I. K. Nikolos, N. A. Papadogiannis and M. Tatarakis, "**Preliminary investigation on the use of low current pulsed power Z-pinch plasma devices for the study of early stage plasma instabilities**", *Plasma Phys. Control. Fusion* **60** 014031 (2018).

Publications

Conferences Proceedings (Refereed)

- [1] **G. Koundourakis**, A. Skoulakis, I. Ftilis, V. Dimitriou , E. Bakarezos, N.A. Papadogiannis, E.L. Clark, N. Vlahakis and M. Tatarakis
"Experimental and numerical investigation of the plasma dynamics and jet formation in low current table-top X-pinch plasma devices", *proceedings of the SCinTE-VOL 3-pg 19-22 ,SCience in TEchnology 2015 (SCinTE /Athens/5-7 November 2015).*

Publications

Conference announcements

- [1] E. Kaselouris, I. Ftilis, A. Skoulakis, **G. Koundourakis** , V. Dimitriou, E.Bakarezos, E.L. Clark, N.A. Papadogiannis and M. Tatarakis.
"Plasma instabilities: the influence on plasma instabilities during the solid-plasma phase transition", *27th Symposium on Plasma Physics and Technology (Prague/Czech/ 20-23 June 2016).*

- [2] Alekos Skoulakis, **Giorgos Koundourakis**, Evaggelos Kaselouris, Ioannis Ftilis, Efthimios Bakarezos, E.L. Clark, Nektarios Vlahakis, Nektarios A. Papadogiannis, Vasilis Dimitriou and Michael Tatarakis.
"PRELIMINARY COMPUTATIONAL STUDY OF PLASMA DYNAMIC EVOLUTION PRODUCED BY LOW CURRENT TABLE-TOP PINCH PLASMA DEVICES", 9TH GRACM INTERNATIONAL CONGRESS ON COMPUTATIONAL MECHANICS/CHANIA/ 4-6 JUNE 2018.