Itay Gissis - CV

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Education

Technion, Israel Inst. of Technology, Haifa, Israel
Phd. Physics - Since March, 2017
MSc. Physics - Oct, 2007 - Jun, 2012

Tel-Aviv university, Tel-Aviv, Israel
BSc. Physics, BSc. Electronics engineering - Oct, 2002 - Aug, 2006

Experience

Rafael Advanced Systems LTD, Haifa, Israel **-** *2006 - present*
System engineer – Manager of a scientific project. Managing a team of scientists, engineers and technicians. Responsible for the project short-term and long-term deliverables, work-plan and budget management.
Physicist in the Experimental physics department – Developing, designing and analyzing experiments from basic theory to experimental results.

Army service

Chief academic officer, IDF (Service in Rafael) - 2006-2012

"Psagot" graduate, Israel's Ministry of defense academic program – 2002-2006

Languages & Computer skills

Hebrew - Mother tongue. English - Fluent

Windows / MSOffice – Fluent
Matlab – Fluent
Linux / Python – Moderate

Publications and grants

Publications

Itay Gissis, Shalom Aricha, Eli Yeger, Uri Avni, Itzik Schnitzer, Amnon Fisher, Ehud Behar, GLIDER - A pulsed-current generator for laboratory astrophysics X-ray absorption experiments, Accepted for publication in Rev. Sci. Inst., (2020)[1]

I. Gissis, U. Peretz, E. Behar, The ionic composition of the local absorber towards 3C 273, Accepted for publication in MNRAS, (2020) [1].

Y. Ashuach, I. Gissis and C. Avinadav, Magnetic gauge for free surface velocities in reinforced concrete blasted by explosives, J. of Phys. Conference Series, Vol 500, Part 14, 2014.

I. Gissis, et. Al. Time-resolved grating spectroscopy of a N capillary discharge plasma for a recombination pumped x-ray laser, JQS&RT, Vol 127, p. 176-182, 2013.

Conferences

I. Gissis, E. Behar, A. Fisher, Laboratory Astrophysics - Cold Absorption, IVS-IPSTA, Haifa IL, 2019.

I. Gissis, E. Behar, A. Fisher, Laboratory Astrophysics - Cold Absorption, IEEE-PPPS 2019, Orlando FL, 2019.

I. Gissis, E. Behar, A. Fisher, Laboratory Astrophysics - Cold Absorption, APS-DPP, Portland OR, 2018, BO8.00012.

I. Gissis, U. Peretz, E. Behar, Laboratory Astrophysics - Cold Absorption, IVS/IPSTA, Tel-Aviv IL, 2018.

I. Gissis, et. Al., Spectroscopy of a Nitrogen Capillary Discharge Plasma Aimed at a Recombination Pumped X-Ray Laser, Joint ICTP-IAEA Advanced School and Workshop, Trieste Italy, 2015.

Y. Ashuach, I. Gissis, C. Avinadav, Magnetic gauge for free surface velocities due to rock blasts, APS-SCCM, Seattle WA, 2013, Y3.

I. Gissis, et. Al., Spectroscopy of a Nitrogen Capillary Discharge Plasma Aimed at a Recombination Pumped X-Ray Laser, IPSTA, Tel Aviv IL, 2014.

I. Gissis, et. Al., Spectroscopy of a Nitrogen Capillary Discharge Plasma Aimed at a Recombination Pumped X-Ray Laser, IPSTA, Weizmann Ist. IL, 2013.

I. Gissis, et. Al., Spectroscopy of a Nitrogen Capillary Discharge Plasma Aimed at a Recombination Pumped X-Ray Laser, IEEE-ICOPS, Edinburgh Scotland, 2012, 3C-2.

[1] Publications related to the PAZY grant.

I. Gissis, et. Al. Towards recombination pumped H-Like N X-ray laser, IEEE-ICOPS, Chicago IL, 2011, IP1M-22.

I. Gissis, et. Al. Towards recombination pumped H-Like N X-ray laser, APS-DPP, Chicago IL, 2010, UP9.00147.

I. Gissis, et. Al. Towards recombination pumped H-Like N X-ray laser, APS-DPP, Atlanta GE, 2009, XP8.00053.

Awards

2019 – IEEE-PPPS 2019 (Pulse power and plasma science) – Best student paper award.

2019 – Pazy award for scientific achievements and excellence in the PhD.

Grants

2018-2021 - PAZY research grant - Laboratory Cold Absorption

2015-2017 - RSF (Rafael Science Fund) - Laboratory Astrophysics