

French-Russian Workshop

December 6th 2016, CentraleSupélec, Gif sur Yvette, Salle du Grand Conseil

Le laboratoire GeePs et l'Academic University de Saint Pétersbourg ont le plaisir de vous inviter à un séminaire franco-russe organisé dans le cadre des 50 ans de coopération scientifique et technique entre la France et la Russie sur le thème:

Лаборатория электротехники и электроники Парижа и Санкт-Петербургский национальный исследовательский Академический университет РАН рады вас пригласить на организованный в рамках 50-летия научно-технического сотрудничества между Францией и Россией российско-французский семинар по теме:

Beyond silicon : heterojunctions and multijunctions solar cells



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Beyond silicon : heterojunctions and multijunctions solar cells

Programme of the workshop

9h00: welcome coffee

9h20-9h30: opening remarks

Session 1 : Status of the PV market

9h30-9h50: Silicon PV market overview (Julien Penaud, Total)

9h50-10h10: PV in France (Daniel Lincot, IPVF)

10h10-10h30: PV in Russia (V.P. Afanasiev, Saint Petersburg Electrotechnical University "LETI")

10h30-10h50: Transfer of HIT technology for mass production at "Hevel solar" (E.I.Terukov, A.F. Ioffe Institute)

10h50-11h10: Coffee break

Session 2 : Heterojunctions

11h10-11h30: Silicon heterojunctions and homo-heterojunctions (J.P. Kleider, GeePs)

11h30-11h50: Charge carrier transport through III-V/IV interface in multi-junction solar cell (K.S. Zelentsov, Saint Petersburg Academic University)

11h50-12h10: Quantum dots for A3B5 solar cells (R.A. Salyy, A.F. Ioffe Institute)

12h10-12h30: ZnO/Cu₂O heterostructure for solar cells (D.A. Kudriashov, Saint Petersburg Academic University)

12h30-14h00: Lunch

Session 3 : Multijunctions I

- 14h00-14h20: Recent progress in the development of III-V multi-junction solar cell technology in Russia (N.A. Kalyzhnyy, A.F. Ioffe Institute)
- 14h20-14h40: III-V on Si: Monolithically integrated GaAs crystals on Si by CBE-ELO for Si based multispectral solar cells (Denis Mencaraglia, GeePs)
- 14h40-15h00: Si,Ge low T epitaxy on III-V (Pere Roca i Cabarrocas, LPICM)
- 15h00-15h20: Low temperature deposition of III-V on Si (A.S. Gudovskikh, Saint Petersburg Academic University)

15h20-15h40: Coffee Break

Session 4 : Multijunctions II

- 15h40-16h00: Perovskite/silicon heterojunctions (Jean Rousset, EDF/IPVF)
- 16h00-16h20: Luminescent coupling in III-V multijunction solar cells (M.Z. Shvarts, A.F. Ioffe Institute)
- 16h20-16h40: Multijunction solar cells based on vertically aligned silicon nanostructures" (IA. Morozov, St. Petersburg Academic University)
- 16h40-17h00: InGaN solar cells: Paths to high performance device (P.L. Voss, Georgia Tech Lorraine)
- 17h00-17h20: Modelling of multijunction cells (Raphaël Lachaume, IPVF)
- 17h20-17h30: Closing remarks*