



The supervisory board of the Kestcells Project announces the Seminars ULUX-01 to ULUX-08:

Place: University of Luxembourg, Laboratory for photovoltaics, 41, rue du Brill, L-4422 Belvaux, Luxembourg

The program includes the following eighth seminars:

ULUX01. Bonds and crystals of semiconductors (ionic and covalent bonds, basic crystal structures, miller indices, reciprocal space), 1 lecture, 2 hrs – Prof. Susanne Siebentritt

ULUX02. Electrons in semiconductors - band structure (E-k relationship, (in)direct band gaps), 1 lecture, 2 hrs – Dr. Alex Redinger

ULUX03. Electronic defects (hydrogen model for shallow defects, behaviour of deep defects), 1 lecture, 2 hrs – Prof. Susanne Siebentritt

ULUX04. Doping (charge carrier statistics in equilibrium, p-, n-type doping), 1 lecture, 2 hrs – Prof. Susanne Siebentritt

ULUX05. Charge Carrier transport (conductivity, mobility, scattering mechanisms), 1 lecture, 2 hrs - Dr. Jennifer Luckas

ULUX06. Non-equilibrium (quasi-Fermi levels, SRH recombination), 1 lecture, 2 hrs – Prof. Susanne Siebentritt

ULUX07. p/n-homojunction (band structure, IV (diode factor 1 and 2), QE), 1 lecture, 2 hrs - Dr. Valérie Deprédurand

ULUX08. p/n-heterojunction, (band structure, IV, QE), 1 lecture, 2 hrs – Dr. Alex Redinger



Schedule:

18.6.	10:00 - 12:00	bonds and crystals	Prof. Susanne Siebentritt
25.6.	10:00 - 12:00	band structure	Dr. Alex Redinger
27.6.	14:00 - 16:00	defects	Prof. Susanne Siebentritt
9.7.	10:00 - 12:00	doping	Prof. Susanne Siebentritt
11.7.	10:00 - 12:00	transport	Dr. Jennifer Luckas
16.7.	10:00 - 12:00	non-equilibrium	Prof. Susanne Siebentritt
29.7.	14:00 - 16:00	homo-junction	Dr. Valérie Deprédurand
30.7.	10:00 - 12:00	hetero-junction	Dr. Alex Redinger