

Physics seminar

Monday, 9th November at 16h15

41, rue du Brill, L- 4422 Belvaux

Room F0.11-1

Prof. Frank Endres, Technische Universität, Clausthal

” Semiconductor nanostructure via Electro-deposition from ionic Liquids”

The fascinating properties of ionic liquids make it possible to synthesize semiconductor nanostructures via a simple and low cost electrochemical pathway. This lecture summarizes our recent work on the synthesis of $\text{Si}_x\text{Ge}_{1-x}$ from ionic liquids. We also introduce here into the peculiarities of Cu, Ga, In and Se electro-deposition, components of Cl(G)S solar cells. Our results confirm that electrochemistry in ionic liquids is excellently suited to the synthesis of high quality semiconductor nanostructures.