

## CURRICULUM VITAE

**Biplab Sanyal**, Ph.D., Docent

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**Personal:** 690705-7712, Indian male; wife: Suparna Sanyal, (Professor, Uppsala University), son: Aalekhyia Sanyal (17 years), permanent resident of Sweden.

**Higher education qualification:**

1993 **M.Sc.** in Physics (Solid State Physics as special paper) from Presidency College, Calcutta under Calcutta University (1<sup>st</sup> class).

1991 **B.Sc.** (Physics Honours, Chemistry, Mathematics) from Scottish Church College under Calcutta University (1<sup>st</sup> division).

**Doctoral degree:**

**1994-1999** **Ph.D.** in Physics (condensed matter theory), from Jadavpur University, Kolkata, India; supervisor: Prof. Abhijit Mookerjee, S. N. Bose Center, India

**Title of Thesis:** *Multicomponent random alloys - a theoretical study.*

**Postdoctoral degree:**

July 2000 to Oct. 2003 Postdoctoral fellow, Dept. of Physics, Uppsala University with Prof. Olle Eriksson, Dr. Susanne Mirbt and Dr. Lars Nordström.

July 1999 to May 2000 Postdoctoral fellow with Prof. S. K. Bose in Physics Department, Brock University, Canada.

**Qualification required for appointment as a docent:**

April 2007

**Current position:**

**Universitetslektor** (since June, 2011), Division of Materials Theory, Dept. of Physics and Astronomy, Uppsala University (60% research, 40% teaching)

**Previous positions and periods of appointments:**

Nov. 2007 to June 2011 Researcher, Dept. of Physics & Astronomy, Uppsala Univ. & Application Expert, UPPMAX

Nov. 2003 to Oct. 2007 Assistant Professor, Theoretical Magnetism Group, Department of Physics, Uppsala University.

**Awards/Scholarships:**

- Fellowship for short-term visit to University of Belem, Brazil from CNPq (March 2008).
- Short term CNR fellowship to visit CNR-INFM lab. in L'Aquila, Italy (2006).
- NSERC postdoctoral fellowship from Brock University, Canada (1999).
- Ph.D. fellowship from the Dept. of Science and Technology, India, (1994-1999).
- Qualified Graduate Aptitude Test in Engineering in the national level in India (1994).
- Qualified National Eligibility Test for Junior Research Fellowship and Lectureship conducted by CSIR and UGC in India (1993).
- Awarded National Scholarship of Merit on the basis of high school exam, India (1988).
- Awarded National Scholarship of Merit on the basis of school-leaving exam, India (1986).

**Supervision (\* indicates responsibility as the main supervisor):**

**Doctoral Students:** Adam Jacobsson\* (**Ph.D. defense on 17<sup>th</sup> April, 2015**), Raghuveer Chimata\* (**defended Lic. Thesis on 25<sup>th</sup> March, 2015**), Soumyajyoti Haldar\* (**defended Lic. Thesis on September 19<sup>th</sup>, 2014**), Sumanta Bhandary\* (**defended Ph.D.: March 14, 2014**), Anna Schepidchenko (**Ph.D. defense on 10<sup>th</sup> April, 2015**), Iulia Brumboiu (**defended Lic. Thesis, 2014**), Johann Luder (**defended Lic. Thesis, 2014**), Mikael Rasånder (**defended**

**Ph.D.: June 11, 2010**), Diana Iusan (**defended Ph.D.: April 16, 2010**), Oscar Grånäs (**defended Ph.D.: May 22, 2012**), Ronny Knut (**defended Ph.D.: March 16, 2012**); M. Kabir, N. Ganguli, K. Tarafder, S. Ganguly (visiting Ph.D. students from India in 2006, 2007), M. Yadav, R. Banerjee (SI fellowship, 2008-2010), S. Ghosh (STINT, 2010).

**Postdocs:** Dr. Carmine Autieri (2013-), Dr. M. K. Yadav (2013-2014), Dr. Hakkim Vovusha (2012-2015), Dr. Satadeep Bhattacharjee (2009-2011), Dr. Fabrizio Cossu (2009-2010).

**Diploma Students:** H. Carlstrand (2014), H. Andersson (2014), B. Rosen (2014), A. Stengel (2013), D. Pedersen (2013), T. Zhang (2011), S. Benhabib (2011), T. Shibuya (2010-11), R. Chimata (Bachelors: 2009 & Masters (2010)), A. Dochter (2009), A. Jakobsson (2008-09), R. Knut (2006), C. Aron (2005), F. Bultmark (2004), C. Ellmer (2004).

**Publications:** **210** papers (**187** published/in press, 13 submitted/manuscript) out of which 1 is in Nature Materials, 1 is in Reviews of Modern Physics, 8 are in Phys. Rev. Lett., 1 in Advanced Functional Materials, 42 in Phys. Rev. B with **3539** citations and h-index **29** (**ref.: Google Scholar**), 5 book chapters, 1 popular science, 1 volume editor (Elsevier).

**Thesis opposition & committee:** Jakub Baran, Univ. of Cork, Ireland (**opponent**, 2010); Håkan Hollmark, Uppsala University (committee, 2011); Chun-Mei Li, KTH (committee, 2011); Artsem Shylaus, Linköping University (committee, 2012); Lorand Delczeg, KTH (committee, 2013); Madhulekha Gogoi, Tezpur Univ., India (**external examiner**, 2014); Waldamiro G. Paschoal Jr., Lund University (committee, 2014); Reza Mahani, Linnaeus University (**opponent**, 2015); Mickael Delcey, Uppsala University (committee, 2015).

**Editorial board:** Advisory board & Editor, *de Gruyter*; Editorial board, *ScienceJet journal*.

**Grants obtained for research:** **309 KEUR**, FP7 Marie Curie IAPP project with Seagate, Ireland & Univ. Duisburg, Germany (2013-2017); **720 KSEK**, Swedish Research Links Prog. with Nepal (2014-2016); **580 KSEK**, Carl Tryggers Stiftelse (2013-2015); **719 KSEK**, Swedish Research Links Prog. with India (2012-2014); **1.5 MSEK**, co-applicant for 2 Swedish Research Links Progs. with India (2010-2012); **249 KSEK**, Carl Tryggers Stiftelse (2009); **600 KSEK**, Swedish Res. Links Prog., (2009-2011); **100 KSEK**, Göran Gustafssons Stiftelse (2008); **1.05 MSEK**, STINT in the 'Institutional Grant for young researchers' category (2008-2010); **1.65 MSEK**, main applicant, VR (2008-2010); **1.79 MSEK**, co-applicant from VR (2006-2008); **600 KSEK**, co-applicant in Swedish Res. Links Programme, (2006-2008), **EUR 1600** to visit CNR-INFM CASTI Regional Lab., L'Aquila, Italy (2006)

**Grants obtained for teaching:** **Bachelor course:** *Fysikprojekt-I (responsible)*, **Masters courses:** *Density functional theory (responsible)*, *Hands-on electronic structure calculations (responsible)*; *Computational physics (responsible)*, *Solid state theory*; **Graduate courses** (responsible): *Materials research on spintronics*, *Efficient scientific computing*, *Materials for life*, *Carbon based materials*, *Materials modeling*, *Computational many body physics*.

**Funding for courses:** Graduate school for Materials in the 21<sup>st</sup> Century (*gradSAM21*) (**575 KSEK** since 2009 till 2014), *Forskarutbildning* (**64 KSEK** in 2014), NGSSC for 'Hands on electronic structure codes' (**180 KSEK** in 2012).

**Conferences, Symposia, Delegation:** **70** invited talks, 1 keynote lecture in conferences; delegated Uppsala Univ. for recruiting Masters students from India (2008, 2009); **organizer:** summer school on 'Magnetism and transport in solids', June 2004 in Uppsala; Asia-Sweden Research Link Conferences in India, Jan. 2007, Jan. 2008, Feb. 2010, Jan. 2014; Graduate School in Uppsala University (2006); workshop on 'clusters and nanomaterials' at Uppsala University, May 2009; minisymposium in ICCP9, Singapore, January 2015.

**Other activities:** **Member:** American Physical Society & IEEE; Associate of S. N. Bose National Center, India; **Referee:** Phys. Rev. B, Phys. Rev. Lett., Nat. Sci. Rep., J. Phys. Condens. Mat., J. Phys. D, Physica, Chem. Mater., J. Magn. Mag. Mater., New J. Phys., Nanotechnology, J. Appl. Phys.; **Reviewer:** Nat. Res. Fund, Luxembourg, European Science Foundation, National Science Foundation & DOE, USA.