



# **Marie Curie Initial Training Network**

**“Few spin solid state nano-systems”**

01/01/2012-31/12/2015

[www.s3nano.eu](http://www.s3nano.eu)

# Partners

**Sheffield**, A Tartakovskii

**Cambridge**, M Atature

**TU Munich**, J Finley

**Konstanz**, G Burkard

**Attocube**, K Karrai

**ETH Zurich**, A Imamoglu, K Ensslin

**Basel**, R Warburton, D Loss

**TU Delft**, R Hanson, L Kouwenhoven

**Leiden Cryogenics**, G Frossati

## **Associated partners:**

Hitachi Cambridge  
Laboratory, Element Six,  
EPSRC National Centre for  
III-V Semiconductor  
Technologies



# Research topics

## **Work Packages** (see Annex I for details):

- 1.** Realization and optical control of coherent single spins in nanostructures
- 2.** Spin-orbit interaction and spin-orbit qubits in nanostructures
- 3.** Advanced techniques for manipulation of nuclear spins on the nanoscale
- 4.** Generation of long-distance entanglement between single spins

**Materials:** quantum dots, nanowires, color centres in diamond, graphene QDs, carbon nanotubes



# Fellows

## **Fellow types:**

Early Stage

Researcher (ESR),

Experienced

Researcher (ER)

## **Total for network:**

**11 ESR, 5 ER**

**Sheffield, 2 ESR**

**Cambridge, 2 ESR, 1 ER**

**TU Munich, 1 ESR**

**Konstanz, 1 ESR**

**Attocube, 1 ER**

**ETH Zurich, 1 ESR, 1 ER**

**Basel, 2 ESR**

**TU Delft, 2 ESR, 1 ER**

**Leiden Cryogenics, 1 ER**



# Events

	<b>Main training events &amp; conferences</b>	<b>Lead Institution</b>	<b>Project month*</b>
1	Kick-off meeting	Munich	2
2	International conference on physics of semiconductors, ICPS-31	Zurich, Basel	8
3	Nanospintronics school	Sheffield	10
4	Project meeting with industry	Delft	17
5	Mid-term review meeting	Zurich	23
6	Nanospintronics school	Cambridge	30
7	Project meeting with industry	Basel	36
8	International conference "Spin-based quantum information processing"	Konstanz	42

\*Project months as given in Annex I





# Management issues

## **Recruitment**

Timescale, rules and obligations

## **Finances**

Management fund

## **Next meeting(s)**

Management meeting at ICPS

Winter (?) school end 2012/beginning 2013

## **Use of S<sup>3</sup>NANO web-site**

Newsletters etc



# Recruitment

## Timescale

**ESRs - only 11 months left !** Any chance for collaboration on this within S<sup>3</sup>NANO?

ERs could be left for later

## Rules and obligations

See ANNEX III for definitions and mobility rules

All fellows to be employed by institutions

Advertise at **EURAXESS** job vacancy portal





## Management funds

Certain amounts have been allocated to each node (from 20k to 70k)

## Use of management funds

Organisation of meetings (including expenses of attendees from outside the network)

Node coordinator's travel to network meetings

Contribution to support staff costs

Audit



# Next meetings

## **Management meeting at ICPS**

To discuss recruitment and fellow training issues

## **Winter (?) school 2012/2013**

Once most of the ESR positions are filled



# Use of S<sup>3</sup>NANO web-site

**Network (and site) will be actively promoted beyond the "recruitment season"**

Regular newsletters will be published and circulated in 2-3 months intervals

**Advertise positions in this ITN and your groups in general**

**Advertise relevant meetings**

**Promote new products relevant to research field**

