

### Program and Lecture Schedule of Workshop on Nanomagnetism

<b>Wednesday 28/9/16</b>	<b>8:30 - 9:30 am</b>	<b>9:30 - 10:15 am</b>	<b>10:15 - 10:30 am</b>	<b>10:30 - 11:30 am</b>	<b>11:30 - 1:00 pm</b>	<b>1:00 - 2:00 pm</b>	<b>2:00 - 3:00 pm</b>	<b>3:00 - 3:45 pm</b>	<b>3:45 - 4:00 pm</b>
	Registration (NCP front lobby)	Inauguration (NCP Auditorium)	Tea break + group photo	Kuch-1	F-1; F-2; F-3 (30 min each)	Lunch	Kuch-2	F-4, S-1 (30 min, 15 min)	Tea
<b>Thursday 29/9/16</b>		<b>9:00 - 10:00 am</b>	<b>10:00 - 11:00 am</b>	<b>11:00 - 11:15 am</b>	<b>11:15 - 1:00 pm</b>	<b>1:00 - 2:00 pm</b>	Kuch-4	<b>3:00 -3:45 pm</b>	<b>3:45 - 6:30 pm</b>
		Kuch-3	F-5, F-6 (30 min each)	Tea break	F-7, F-8, F-9 (30 min each) + S-2 (15 min)	Lunch		Poster presentation + Tea	Excursion
<b>Friday 30/9/16</b>		<b>9:00 - 10:00 am</b>	<b>10:00 - 11:00 am</b>	Tea break	F-12, F- 13, F-14	Lunch/ Prayer	<b>2:30 - 3:30 pm</b> Certificates distribution + Closing ceremony		
		Kuch-5	F-10, F-11						

**Kuch:** Keynote speaker Prof. Dr. Wolfgang **Kuch** (about 60 minutes each)

**F:** Oral talks by faculty members/researchers (30 min each)

**S:** Oral talks by students (15 min each)

**Venue and Date: Room 109, Academic Block (For scientific sessions)**

*National Centre for Physics, QAU Campus, Islamabad, Pakistan, Sep. 28-30, 2016,*

### Detailed scientific program (tentative)

<b>Wednesday:</b>	Kuch-1: Dr. W. Kuch	Magnetism in reduced dimensions and current challenges for spintronics
	F-1 Dr. S. K. Hasanain	From magneto-resistance to spintronics
	F-2 Dr. Gul Rahman	Electronic and magnetic structures of MoS <sub>2</sub> : Density functional theory calculations
	F-3 Dr. Amin ur Rashid	Optimizing magnetic anisotropy of La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> nanoparticles for hyperthermia applications
	Kuch-2: Dr. W. Kuch	X-ray absorption spectroscopy and magnetic circular dichroism
	F-4 Dr. Mohsin Rafique	Magnetoelectric response in nanocomposites on electromechanical substrates
	S-1 Mr. Munir Shahzad	Field-tuned Chiral Phase Transition in a Metallic Frustrated Magnet
<b>Thursday:</b>	Kuch-3: Dr. W. Kuch	Magnetic properties of antiferromagnetic/ferromagnetic thin film systems
	F-5 Dr. M. Yaqoob Khattak	Pinned magnetic moments in exchange bias: Role of the antiferromagnetic bulk spin structure
	F-6 Dr. G. H. Jaffari	Exchange bias in polycrystalline hollow nanoparticles
	F-7 Dr. Abdullah Yar	Vibration induced memory effects and switching in ac-driven molecular nano-junctions
	F-8 Dr. M. Sultan	Magnetization dynamics study by femtosecond laser pulses
	F-9 Dr. Naveed Zafar Ali	Complementary use of synchrotron x-ray and neutron diffraction to envisage the structure property relationship in complex magnetic oxides
	Kuch-4: Dr. W. Kuch	Magnetic domains and magnetic domain imaging
	S-2	To be decided
<b>Friday</b>	Kuch-5: Dr. W. Kuch	Magnetic molecules on surfaces
	F-10 Mr. Oliver Sandig	Movement of magnetic domain walls induced by single femtosecond laser pulses
	F-11 Dr. Shahid Nisar	Treating cancer magnetically
	F-12 Dr. Saif Ullah	Physics behind nano-magnetism of permanent magnets
	F-13 Dr. Naeem Ahmad	Magnetic interactions and Ferromagnetic relaxation in high density vertically electrodeposited Ni <sub>76</sub> Fe <sub>24</sub> Nanowires and Ni <sub>77</sub> Fe <sub>23</sub> Nanotubes
	F-14 Dr. Omar Khan	Numerical Solution for Spin Wave Excitation in thin films under Uniform and non Uniform Ground States