

NiPS Summer School 2010

Summer School: Energy Harvesting at micro and nanoscale, Aug. 1-6, 2010

NiPS Workshop: Noise in dynamical systems at the micro and nanoscale, Aug. 6-8, 2010

Workshop Program

August 6th Chair: Clivia Sotomayor Torres

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| 16.00 – 17.00 | Adi Bulsara | Time Domain Characterization of the response of a Nonlinear Sensor in the Presence of Noise |
| 17.00 – 17.30 | German Patterson | Data transmission and storage assisted by noise |
| 17.30 – 18.00 | | Coffee break |
| 18.00 – 18.30 | Fabian Hartmann | Stochastic Resonance in a nanoelectronic Y-branch switch |
| 18.30 – 19.00 | Kohei Yamashita | Sound detection by using stochastic resonance |

August 7th Chair: Lukas Worschech

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| 9.30 – 10.00 | Jordi Agustì | RF energy harvester based on MEMS |
| 10.00 – 10.30 | Andrea Cammarano | Energy harvesting from vibrations with non linear oscillators |
| 10.30 – 11.00 | Gabriel Vidal | Two segments cantilever beam mass sensor with capacitive actuation and readout |
| 11.00 – 11.30 | | Coffee break |
| 11.30 – 12.00 | Francesco Orfei | Vibration powered sensor network |
| 12.00 – 12.30 | Igor Neri | Vibration sources data base |
| 12.30 – 13.00 | Simone Dalola | Thermal Energy Harvesting for Low-Power Autonomous Sensors |
| 13.00 – 15.30 | | Lunch |
| 15.30 – 16.00 | Elena Tkacheva | Calculating of transport coefficients in PbTe |
| 16.00 – 16.30 | Jari Kinaret | Nonlinear effects in NEMS |
| 16.30 – 17.00 | | Coffee break |
| 17.00 – 17.30 | Rafael Sanchez | Transport via correlated fluctuations |

NANOPower



WISEPower