*RESEARCH CONFERENCES*

**ESF Mathematics Conference in partnership with EMS and CRM-Pi**
**Knots and Links: From Form to Function**
**2 - 8 July 2011 | Mathematical Research Center ' Ennio De Giorgi', Pisa, Italy**

## List of Accepted Short Talks

| # | Surname | First name | Title |
|---|---|---|---|
| 1 | Arrayas | Manuel | Persistence of entanglement and helicity integrals in reaction-diffusion systems. |
| 2 | Arsuaga | Javier | The effects of minicircle density on the topological structure of the mitochondrial DNA from trypanosomes |
| 3 | Blatt | Simon | The Gradient Flow of O'Hara's Knot Energies |
| 4 | Candelaresi | Simon | Decay of helical and non-helical magnetic links and knots |
| 5 | Diamantis | Ioannis | Toward the 3rd skein module of L(p, q) |
| 6 | Hermes | Tobias | A Gradient Flow for Menger Curvature |
| 7 | Jin | Gyo Taek | Prime knots whose arc index is smaller than the crossing number |
| 8 | Kephart | Thomas | The tight knot spectrum in QCD |
| 9 | Kitayama | Takashiro | On the leading coefficient of the metabelian Alexander polynomial |
| 10 | Komendarczyk | Rafal | Higher order helicities via link maps |
| 11 | Mastin | Matt | Link Symmetry and Composite Links |
| 12 | Mauricio | Mauro | An extension of the tangle model for composite knots |
| 13 | Nikonov | Igor | Parity functors on knot diagrams |
| 14 | Panagiotou | Eleni | A study of the linking number in systems with periodic boundary conditions |
| 15 | Pieranski | Piotr | Conjectures concerning the curvature and torsion of the ideal trefoil knot |
| 16 | Reiter | Philipp | Regularity theory for O'Hara's knot energy family E^alpha |
| 17 | Sazdanovic | Radmila | Categorification in knot and graph theory |
| 18 | Starostin | Eugene | Elastic 2-braids, knots and links |
| 19 | Szumanska | Marta | Knots with finite Integral Menger curvature energy |
| 20 | Tanda | Satoshi | Discovery of topological Knot and Link Crystals |
| 21 | Trueba | Jose Luis | Some New Results on Knotted Electromagnetic Fields in Vacuum |
| 22 | Vazquez | Maria Elena | Modeling DNA unlinking |