Drell-Yan Scattering and the Structure of Hadrons
Trento, May 21 - 25, 2012

Main Topics
- Extraction of the Sivers’ function
- Theoretical basis of the Sivers’ function sign change
- Implications of a possible existence of the Sivers’ function sign change
- Cahn and Boer-Mulders effects
- Experimental possibilities for a node in the Sivers’ function
- Measurements of pion and kaon structure
- Violation of the Lamb-Dicke relation
- Relationship of the Lamb-Dicke relation and Transverse Momentum Distributions (TMD’s)
- The EMC effect and nuclear binding
- Absolute cross section measurements and extraction of parton distributions
- Extraction of the sea quark distributions
- Dynamical twist-3 contributions
- Implications for LHC from TMDs at hadronic scales
- Improving statistical analysis with Neural Networks

Key speakers include
Alessandro Bacchetta (University of Pavia and INFN-Pavia), Vincenzo Barone (University of Piremon Orientale and INFN-Torino), Michela Chiaia (University of Torino and INFN-Torino), Huick Crawford (University of California, Berkeley), Marco Destefanis (University of Torino and INFN-Torino), Choung-Jui Dutta (University Michigan), Leonard Gamborg (Pemnsylvania State University and Berks-Lehigh Valley), Keiji Kohya (Niigata University, Japan), Zhan Lu (Southeast University, Nanjing, China, and Santa Maria University, Valparaiso, Chile), Stefano Melito (ECT* Trento), R. Noctes (University of Milano and INFN-Milan), Barbara Pasquetti (University of Pavia and INFN-Pavia), Joo-Chul Peng (University of Illinois), Alexei Prokudin (Thomas Jefferson National Accelerator Laboratory), Marco Radi (INFN-Pavia), Marc Schlegel (University of Tewingen), Oleg Shevchetsko (JINR, Dubna), Lech Szymanski (Institute for Nuclear Studies, Warsaw), Wroetz Vogelsang (University of Tewingen)

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The ECT* is sponsored by the “Fondazione Bruno Kessler” in collaboration with the “Amministrazione alla Cultura” (Provincia Autonoma di Trento), funding agencies of EU Member and Associated States and has the support of the Department of Physics of the University of Trento.

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