# ACAT2013

## Thursday, 16 May 2013

Track 3 - A214 (14:00 - 17:50)

-Conveners: Andrej Arbuzov; Daniel Maître

| time | [id] title | presenter |
|---|---|---|
| 14:00 | [40] Automated One-loop Computation in Quarkonium Process within NRQCD Framework | Mr FENG, Feng |
| 14:25 | [4] Contraction of 1-loop 5-point tensor Feynman integrals | Dr RIEMANN, Tord |
| 14:50 | [88] Generators BCVEGPY and GENXICC for doubly heavy mesons and baryons | Prof. WU, Xing-Gang |
| 15:15 | [31] SANC system and its applications for LHC | Dr SADYKOV, Renat |
| 15:40 | Coeff Break | |
| 16:10 | [10] New developments in FeynRules | Mr ALLOUL, Adam |
| 16:35 | [14] Three-loop beta-functions and anomalous dimensions in the SM | Dr BEDNYAKOV, Alexander |
| 17:00 | [65] Development of an object oriented lattice QCD code ``Bridge++'' | Dr UEDA, Satoru |
| 17:25 | [82] Recent developments on FORM | Dr UEDA, Takahiro |

# Friday, 17 May 2013

Track 3 - A214 (14:00 - 17:50)

-Conveners: Wengan Ma; Toshiaki Kaneko

| time | [id] title | presenter |
|---|---|---|
| 14:00 | [16] Numerical multi-loop calculations with SecDec 2.1 | HEINRICH, Gudrun |
| 14:25 | [1] Theory of phase transitions and critical phenomena : new approach for numerical calculation of anomalous dimensions. | Dr KOMPANIETS, Mikhail |
| 14:50 | [24] FormCalc 8 | HAHN, Thomas |
| 15:15 | [92] The BlackHat Library for One-Loop Amplitudes | Dr KOSOWER, David |
| 15:40 | Coffe Break | |
| 16:10 | [101] Feynman Loop Integral Computation on Hybrid Platforms | Prof. DE DONCKER, Elise |
| 16:35 | [2] QCD Corrections to the Drell-Yan Process for Experiments at the Large Hadron Collider | Dr ZYKUNOV, Vladimir |
| 17:00 | [27] Precise calculation for heavy gauge boson production in the LHT model | Mr GUO, Lei |
| 17:25 | [35] The computation of cross sections in brane world models | Mr KIRPICHNIKOV, Dmitry |

# Saturday, 18 May 2013

Track 3 - A214 (14:00 - 17:50)

-Conveners: Tord Riemann; Thomas Hahn

| time | [id] title | presenter |
|---|---|---|
| 14:00 | [25] Automated NLO calculations with GoSam | HEINRICH, Gudrun |
| 14:25 | [39] Computation of multi-leg amplitudes with NJet | Dr YUNDIN, Valery |
| 14:50 | [60] Automatic one-loop calculations with OpenLoops | MAIERHOEFER, Philipp |
| 15:15 | [41] LiteRed: a new powerful tool for the reduction of multiloop integrals | Dr LEE, Roman |
| 15:40 | Coffee Break | |
| 16:10 | [8] Special functions in Higher Loop Calculations: harmonic, generalized harmonic, and binomial sums, polylogarityms and special constants | Prof. BLUEMLEIN, Johannes |
| 16:35 | [37] Multi-loop Integrand Reduction with Computational Algebraic Geometry | Dr BADGER, Simon |
| 17:00 | [56] FAPT: a Mathematica package for calculations in QCD Fractional Analytic Perturbation Theory | Mr KHANDRAMAI, Viacheslav |
| 17:25 | [66] One loop integration with hypergeometric series by using recursion formulae | Dr WATANABE, Norihisa |