

# **Topical meeting of Spin tracking for Precision Measurements Announcement**

**Tuesday, May 5, 2015 - Wednesday, May 6, 2015**

## **Scientific Program**

## **Agenda**

### **May 5: 1pm—6pm**

#### **Presentations: 13:00—14:30**

#### **Chair: Ed Stepenson**

13:00-13:10 Mei (FZJ), Welcome and introduction

13:10-13:30 Greta(Ferrara), Overview of spin coherence time study results at COSY

13:30-13:50 Marcel(FZJ), Spin tracking with COSY-infinity and its benchmarking

13:50-14:10 Prof. Andrianov(St. Petersburg University), Spin tracking with MODE and its benchmarking

14:10-14:30 Selcuk Haciomeroglu(CAPP/IBS at KAIST), Tracking results of all-electric ring with Runge-Kutta integration

Coffee break

### **Panel discussion on codes for precision measurement of storage ring based EDM search**

#### **15:00 – 18:00 Chair: Vadim, Evaluation of various codes**

~ 15mins presentations from COSY-infinity, E-Teapot, Tspink, PTC, zgoubi, BMAD, etc on its strength and limitations for EDM spin tracking

Dr. Sagan: BMAD

Prof. Talman: E-Teapot

Dr. Abell: Tspink

Dr. Meot: zgoubi

Dr. Gaisser (CAPP/IBS at KAIST), Fast integration algorithm for spin tracking

Prof. Berz: COSY-infinity

Kyoko(MSU): Fringe field treatment in COSY-infinity

### **May 6: 1pm—3pm**

#### **Panel discussion Chair: Georg**

Mei (FZJ): Summary panel discussion on codes for EDM spin tracking Panel discussion on benchmarking

Coffee break

May 6: 3:30pm – 6pm

**Presentation Chair: Mei 15:30—16:00**

Valeri(FNAL), EDM lattice design challenges and requirements

**Panel discussion on lattice design tools, Chair: Valeri**

Comparison of available tools: MADX(CERN), Optim(FNAL) BMAD(Cornell)

**Session summary: write-up by organizers by the end of June**