Topical meeting of Spin tracking for Precision Measurements Announcement

Tuesday, 5 May 2015 - Wednesday, 6 May 2015

Scientific Programme

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