



**JRA THEXO**

WORKSHOP ON  
**BREAKUP REACTIONS AND RELATED TOPICS**  
July 16-18, 2014, ECT\*, Trento, Italy

**Wednesday, July 16, 2014**

8:45 – 9:15 Registration at ECT\*

WELCOME AND EXPERIMENTAL DEVELOPMENTS (chairman: Leeb)

9:15- 9:30 **H. Leeb** (TU Wien)

Welcome and survey

9:30-10:30 **D. Baye** (Free University Brussels)

Breakup reactions with eikonal methods

10:30-11:00 *Coffee Break*

BREAKUP REACTIONS (chairman: NN)

11:00-12:00 **J. Tostevin** (University of Surrey)

Breakup of well- and loosely bound systems

12:00-13:00 **V. Pseudo-Fortes** (CSCI)

Reaction of the halo nucleus  $^{11}\text{Be}$  on heavy targets at energies around the Coulomb barrier

13:00-14:30 *Lunch*

CONTINUUM DISCRETIZED COUPLED CHANNELS (chairman: NN)

14:30-15:30 **T. Nakamura** (Tokyo Techn. University)

Coulomb and nuclear breakup of exotic nuclei near the neutron drip line

15:30-16:30 **T. Matsumoto** (Kyushu University)

Systematical analysis of three- and four-body breakup reactions with CDCC

16:30-17:00 *Coffee Break*

CONTINUUM DISCRETIZED COUPLED CHANNELS (chairman: NN)

17:00-18:00 **Huu-Tai Chau** (CEA-DAM)

Can we use the CDCC approach to calculate some excitation functions for deuteron induced reactions?



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**Thursday, July 17, 2014**

CORRELATIONS IN NUCLEAR SYSTEMS (chairman: P.-H. Heenen)

9:15- 10:15 **M. Horth-Jensen** (University of Oslo)

Correlations in nuclear systems towards the limits of stability

10:15-11:15 **Qi Chong** (KTH Stockholm)

Simple correlation between nuclear pairing gap and alpha clustering and its indication on two-particle transfer reactions

11:15-11:45 *Coffee Break*

MEAN FIELD TECHNIQUES (chairman: NN)

11:45-12:45 **D.Tarpanov** (Warschau University)

Spectroscopic properties of energy density functionals

12:45-14:30 *Lunch*

NUCLEAR REACTIONS (chairman: NN)

14:30-15:30 **J.A. Lay Valera** (INFN-LNL)

Static and Dynamic Core Excitation Effects in Reactions with Exotic Nuclei

15:30-16:30 **K. Spasova** (Sofia)

Microscopic analysis of breakup processes of  $^{11}\text{Li}$  and  $^{11}\text{Be}$  with protons and nuclei

16:30-17:00 *Coffee Break*

BREAKUP REACTIONS (chairman: NN)

17:00-17:40 **Th. Srdinko** (TU Wien)

Breakup reactions of neutron halo nuclei within an eikonal approach



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**Friday, July 18, 2014**

EFFECTIVE INTERACTIONS (chairman: NN)

9:15-10:15 **M. Ploszajczak (GANIL)**

Towards reaction theory involving weakly bound systems

10:15-11:15 **H. Leeb (TU Wien)**

Microscopic approach to alpha-nucleus scattering

11:15-11:45 *Coffee Break*

SUMMARY OF THE WORKSHOP (chairman: H. Leeb)

11:45-12:45 **All participants**

Discussion: Open Problems in Reaction Theory

12:45-13:00 Summary of the Workshop

13:00 END OF THE WORKSHOP

13:00-14:30 *Lunch*



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**REGISTERED PARTICIPANTS**

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