February 28, 2004

PRELIMINARY PROGRAM

Workshop on SPECTROSCOPIC FACTORS

ECT*, Trento 2^{nd}-12^{th} March 2004

Tuesday March 2nd

Chair: R. Siemssen

- 9:25 W. Weise weise@ect.it
  Welcome
- 9:30-10:20 S. Galès gales@ipno.in2p3.fr
  Single-particle absolute spectroscopic factors : the quest, from bound states to resonances.
- 10:20-11:10 L. Lapikás louk@nikhef.nl
  Spectroscopic factors from (e,e'p) reactions.
- 11:10-11:40 Coffee break
- 11:40-12:30 T. Otsuka otsuka@phys.s.u-tokyo.ac.jp
  Single-particle states in exotic nuclei.
- 12:30-14:00 LUNCH

  Chair: M. Ishihara
- 14:00-14:50 P.G. Hansen hansen@nscl.msu.edu
  Absolute spectroscopic factors from radioactive-beam experiments.
- 14:50-15:40 I. Sick sick@ubaclu.unibas.ch
  Correlated spectral function from (e,e'p).
- 15:40-16:10 Break
- 16:10-16:50 A. Bonaccorso angela.bonaccorso@pi.infn.it
  Single particle states in the continuum.

Wednesday March 3rd

Chair: T. Otsuka

- 9:30-10:20 J. P. Schiffer schiffer@anl.gov
  Single-Particle States and Evidence for Changes in the Spin-Orbit Interaction with Neutron Excess.
- 10:20-11:10 J. Tostevin j.tostevin@surrey.ac.uk
  Methods and lessons from direct reaction theory.
- 11:10-11:40 Coffee break
- 11:40-12:20 P. Schuck schuck@ipno.in2p3.fr
  Alpha particle condensation in threshold states of lighter nuclei.
- 12:20-13:00 T. Glasmacher Glasmacher@nscl.msu.edu
  Direct Reactions of Exotic beams with Gamma-Ray Spectroscopy.

13:00-14:30 LUNCH

Chair: I. Sick

- 14:30-15:20 O. Benhar benhar@roma1.infn.it
  Dependence of the spectroscopic factors extracted from (e,e'p) data on the transferred momentum.
- 15:20-16:10 M. Strikman strikman@phys.psu.edu
  High Q^2 e,e'p reactions.
- 16:10-16:40 Break

Thursday March 4th

Chair: S.Galès

- 9:30-10:20 T. Aumann T.Aumann@gsi.de
  Spectroscopic Factors from Coulomb Breakup Measurements.
- 10:20-11:10 E. Jans eddy@nikhef.nl
  Electro-induced two-nucleon knockout reactions on ^{3}He.
- 11:10-11:40 Coffee break
- 11:40-12:30 W. H. Dickhoff wimd@wuphys.wustl.edu
  Proton properties in the nucleus - quantum physics at all energy scales.
- 12:30-14:00 LUNCH

  Chair: A. Cunsolo
- 14:00-14:40 S. Typel typel@tplx21.gsi.de
  Final-state effects in the electromagnetic breakup of exotic nuclei.
- 14:40-15:20 P. Roussel Chomaz patricia.chomaz@ganil.fr
  Study of the ground state wave function of ^{6}He via the 2-neutron transfer reaction ^{6}He(p,t)α.
- 15:20-15:50 Break
- 15:50-16:30 F.Cappuzzello Cappuzzello@lns.infn.it
  Spectroscopic studies with the MAGNEX spectrometer.
- 16:30-17:00 C. Nociforo nociforo@lns.infn.it
  Ground-state configuration of ^{23}O investigated via Coulomb breakup.

Friday March 5th

Chair: L. Lapikas

- 9:30-10:10 M. Ishihara ishihara@rarfaxp.riken.go.jp
  Anomalous reduction of E2 effective charge in light neutron rich isotopes.

- 10:10-10:50 J. Ryckebusch jan.ryckebusch@rug.ac.be
  Nuclear Transparencies in A(e,e'p) reactions.

- 10:50-11:20 Coffee break

- 11:20-12:00 J. S. Vaagen jans.vaagen@fi.uib.no
  Correlation Maps for Borromean Halo Continua.

- 12:00-12:50 S. Shimoura shimoura@cns.s.u-tokyo.ac.jp
  Proton single-particle states in neutron-rich nuclei via (α,t) reactions at intermediate energy.

- 12:50-14:20 LUNCH

  Chair: J. P. Schiffer

- 14:20-14:50 H. Scheit Heiko.Scheit@mpi-hd.mpg.de
  The neutron-rich Na and Mg isotopes studied at REX-ISOLDE.

- 14:50-15:20 M. Horoi horoi@phy.cmich.edu
  Role of Spectroscopic Factors in the Weak Proton Decay of the Neutron Rich ^{11}Be.

- 15:20-16:20 R. Siemssen siemssen@kvi.nl
  Summary of week I and *Laudatio* of Sydney.

- 16:20-16:50 Break

- 20:00 Week I conference dinner: Toast to Sydney by G. Crawley
  Crawley@cosm.sc.edu.

Monday March 8th

Chair: P.G. Hansen

- 9:30-10:20 C. Giusti giusti@pv.infn.it
  Correlations and Electromagnetic Knockout Reactions.
- 10:20-11:10 B.A. Brown Brown@nscl.msu.edu
  Spectroscopic factors and configuration mixing.
- 11:10-11:40 Coffee break
- 11:40-12:30 C. Ciofi degli Atti Claudio.Ciofi@pg.infn.it
  The hadronic response to lepton probes at high nucleon momenta and removal energies.
- 12:30-14:00 LUNCH

  Chair: A. Fabrocini
- 14:00-14:30 J. Escher escher1@llnl.gov
  Proton emission and spectroscopic factors.
- 14:30-15:10 M. Freer M.Freer@bham.ac.uk
  Spectroscopic information from breakup reactions of boron and beryllium nuclei.
- 15:10-15:40 Break
- 15:40-16:10 C. Barbieri barbieri@triumf.ca
  Spectroscopic factors and limits of the mean field approximation. Applications to proton decay and capture.
- 16:10-16:40 A. Garcia-Camacho A.Garcia-Camacho@surrey.ac.uk
  Spin-orbit effects in knock-out reactions.

Tuesday March 9th

Chair: D.M. Brink

- 9:30-10:20 J. W. Watson jwatson@kent.edu
  Short Range Correlations in ^{12}C(p,2p + n) and ^{12}C(e,e'p + N).
- 10:20-11:10 J.J. Kelly kelly@enp.umd.edu
  Influence of the Dirac Sea on Nucleon Electromagnetic Knockout.
- 11:10-11:40 Coffee break
- 11:40-12:30 G. Baur g.baur@fz-juelich.de
  Direct Reactions with Exotic Nuclei.
- 12:30-14:00 LUNCH

  Chair B.A. Brown
- 14:00-14:40 T. Nakamura nakamura@ap.titech.ac.jp
  Coulomb breakup and spectroscopic factors.
- 14:40-15:20 A.A. Korsheninnikov alexei@riken.jp
  Recent experimental studies of exotic nuclei.
- 15:20-15:50 Break
- 15:50-16:20 F. Delaunay delaunay@nscl.msu.edu
  Excited states of ^{11}Be studied via the ^{10}Be(d,p)^{11}Be reaction in inverse kinematics.
- 16:20-16:50 U. Datta Pramanik ushasi@anp.saha.ernet.in
  Proton removal reactions and spectroscopic factors.

Wednesday March 10th

Chair: H. Emling

- 9:30-10:10 A. Dieperink dieperink@kvi.nl
  Tensor correlations in nuclear matter treated in the self-consistent Green function method.

- 10:10-10:50 S. Fortier fortier@ipno.in2p3.fr
  Alpha-particle transfer in light nuclei: Application to the search for Tetraneutron.

- 10:50-11:20 Coffee break

- 11:20-12:00 L. Trache l-trache@tamu.edu
  Spectroscopic factors versus Asymptotic Normalization Coefficients from breakup and transfer reactions with loosely bound nuclei.

- 12:00-12:30 L. Gaudefroy gaudefro@ipno.in2p3.fr
  Neutron-capture cross sections around neutron-rich magic nuclei for astrophysical purposes.

- 12:30-14:00 LUNCH

  Chair: S. Fortier

- 14:00-14:40 F.Carstoiu carstoiu@theory.nipne.ro
  Extended sudden approximation for one nucleon removal reactions.

- 14:40-15:20 N. Vinh Mau vinhmau@ipno.in2p3.fr
  Spectroscopic factors for ^{12}Be and ^{13}Be.

- 15:20-15:50 Break

- 15:50-16:20 G. Blanchon blanchon@df.unipi.it
  Unbound nuclei studied via transfer to the continuum reactions.

- 16:20-16:50 F. Skaza fskaza@cea.fr
  Structure of ^{8}He with direct reactions on a proton target.

Thursday March 11th

Chair: A. Dieperink

- 9:30-10:20 H. Emling h.emling@gsi.de
  Single-particle structure of unstable nuclei - experimental prospects with high-energy secondary beams.

- 10:20-11:00 J. Kolata James.J.Kolata.1@nd.edu
  Breakup and Transfer in the ^{6}He+^{209}Bi System Near the Barrier.

- 11:00-11:30 Coffee break

- 11:30-12:20 E. Moya de Guerra imtem22@pinar2.csic.es
  Spectroscopic factors from Fadeev calculations in ^{3}He and related topics.

- 12:20-13:00 E. Vigezzi vigezzi@mi.infn.it
  Effects of particle-vibration coupling in halo nuclei and around ^{68}Ni.

- 13:00-14:30 LUNCH

  Chair: E. Moya de Guerra

- 14:30-15:20 Azaiez Faical azaiez@ipno.in2p3.fr
  Study of monopole migration by measuring the strength of the n-p interaction with transfer reactions.

- 15:20-15:50 M. Tomaselli marco@gsi.de
  Halo study in exotic nuclei with (e,e'p) and (e,e'd) reactions.

- 15:50-16:20 Break

- 16:20-16:50 A. Y. Illarionov Alexei.Illarionov@pi.infn.it
  Quasideuteron distribution in nuclei.

- 20:00 Week II conference dinner.

Friday March 12th

Chair: C. Giusti

- 9:30-10:20 G. Orlandini orlandin@science.unitn.it
  The ^{4}He(e,e'p)^{3}H reaction: a laboratory to understand the relevance and validity of spectroscopic factors.

- 10:20-10:50 S.Shlomo shlomo@comp.tamu.edu
  Comments on Hartree-Fock and random-phase-approximation calculations and self-consistency.

- 10:50-11:20 V. Troncale Valentina.Troncale@cern.ch
  Na and Mg n-deficient beam production for Nuclear Astrophysics and Collinear Laser Spectroscopy experiments at ISOLDE-CERN: theoretical outline and primary target study.

- 11:20-11:50 Coffee break

- 11:50-12:30 D.M. Brink thph0032@herald.ox.ac.uk
  Summary talk

- 12:30-14:00 LUNCH

  END of WORKSHOP