

TALKS PRESENTED
April 1, 2011 – March 31, 2012

Status of $0^+ \rightarrow 0^+$ superallowed beta decay: tests of CVC and CKM unitarity, J.C. Hardy and I.S. Towner, **J.C. Hardy, Invited talk**, International Workshop, “Isospin Symmetry and its breaking in nuclear structure,” sponsored by the Espace de Structure Nucleaire Theoretique (ESNT), Gif-sur-Yvette, France (April 2011).

Precise measurements of the decay properties of superallowed 0^+ -to- 0^+ beta emitters with $T_Z = -1$, **J.C. Hardy, Invited talk**, International Conference on Advances in Radioactive Isotope Science, ARIS-2011, Leuven, Belgium (May 2011).

Ernest Rutherford and the origins of nuclear physics, **J.C. Hardy, Invited talk**, Annual Congress of the Canadian Association of Physicists, St John’s, Newfoundland, Canada (June 2011).

Nuclear tests of the standard model: vector conservation and CKM unitarity, **J.C. Hardy, Invited talk**, XXXII Mazurian Lakes Conference on Physics, Piaski, Poland (September 2011).

Do radioactive half-lives vary with the earth-to-sun distance?, **J.C. Hardy, Invited talk**, 18th International Conference on Radionuclide Metrology and its Applications, ICRM 2011, Tsukuba, Japan (September 2011).

Superallowed $0^+ \rightarrow 0^+$ beta decay from $T_Z = -1$ sd-shell nuclei, **J.C. Hardy, Invited talk**, XXXV Symposium on Nuclear Physics, Cocoyoc, Mexico (January 2012).

Isospin symmetry-breaking corrections in nuclear beta decay, I.S. Towner and J.C. Hardy, **I.S. Towner, Invited talk**, International Workshop, “Isospin Symmetry and its breaking in nuclear structure,” sponsored by the Espace de Structure Nucleaire Theoretique (ESNT), Gif-sur-Yvette, France (April 2011).

Nuclear tests of the standard model: vector current conservation and CKM unitarity, **J.C. Hardy, Colloquium** at the University of Bordeaux, Bordeaux, France (May 2011).

Ernest Rutherford and the origins of nuclear physics, **J.C. Hardy, Colloquium**, Texas A&M University, College Station, Texas (February 2012).

How idiosyncratic is the weak force? **J.C. Hardy, Lecture** to REU students, Cyclotron Institute, Texas A&M University, College Station, Texas (July 2011).

ANC's and (or?) spectroscopic factors from transfer reactions, **R.E. Tribble, Invited PlenaryTalk**, ECT Workshop on Transfer Reactions, Trento, Italy (May 2011).

Fundamental symmetries – the standard model, , **R.E. Tribble, Invited Lecture**, at the National Nuclear Physics Summer School, University of North Carolina, Carolina (July, 2011).

Fundamental symmetries – nuclear beta decay, **R.E. Tribble, Invited Lecture**, at the National Nuclear Physics Summer School, University of North Carolina, North Carolina (July, 2011).

Fundamental symmetries – muons, **R.E. Tribble**, **Invited Lecture**, at the National Nuclear Physics Summer School, University of North Carolina, North Carolina (July, 2011).

The worldwide development of rare isotope beam facilities, **R.E. Tribble**, **Invited Talk**, US-Korea Summit on Science and Engineering-UKC2011, Park City, Utah (August, 2011).

Facilities other than US user facilities for nuclear structure and nuclear astrophysics, **R.E. Tribble**, **Invited Talk**, Joint ATLAS-HRIBF-NSCL-FRIB Users Meeting, Michigan State University, East Lansing, Michigan (August, 2011).

The worldwide effort to understand the visible matter in the universe, **R.E. Tribble**, **Invited PlenaryTalk**, Texas Section APS, Commerce, Texas (October, 2011).

Radioactive ion beams for nuclear astrophysics at Texas A&M university, **R.E. Tribble**, **Invited Talk**, International Symposium on the Physics of Unstable Nuclei, Hanoi, Vietnam (November, 2011).

Development of new techniques to determine neutron induced reaction rates, **R.E. Tribble**, **Invited Talk**, 2012 Stewardship Science Academic Alliances Symposium, Washington, D. C. (February, 2012).

Exploring Gluon Polarization in the Proton with STAR, **C.A. Gagliardi**, **Invited Talk**, (for the STAR Collaboration), 19th Part. Nucl. Int. Conf. (PANIC11), Cambridge, Massachusetts (July 2011).

STAR Science for the Coming Decade, **C.A. Gagliardi**, **Invited Talk**, (for the STAR Collaboration), XXII Int. Conf. Ultra-Relativistic Nucl.-Nucl. Coll. (Quark Matter 2011), Annecy, France (May, 2011).

Exploring the Proton Spin with STAR, **C.A. Gagliardi**, **Seminar**, Physics Dept., Penn State University, State College, Pennsylvania (April 2011).

Precision measurements and significance assessment in gamma-ray spectroscopy data evaluation, **N. Nica**, **Seminar** at Horia Hulubei National Institute of Physics and Nuclear Engineering, Bucharest, Romania (April 2011).

Probing fundamental electroweak physics with superallowed beta-decay experiments, **L. Chen**, **Seminar** at Triangle Universities Nuclear Laboratory, Durham, North Carolina (November 2011).

Probing fundamental electroweak physics with superallowed beta-decay experiments, **L. Chen**, **Seminar** at Argonne National Laboratory, Argonne, Illinois (December 2011).

Probing fundamental electroweak physics with superallowed beta-decay experiments, **L. Chen**, **Seminar** at Indiana University, Bloomington, Indiana (December 2011).

High-precision measurements of the superallowed $0^+ \rightarrow 0^+$ beta decays of ^{38}Ca and ^{46}V , **H.I. Park**, **Seminar** at Argonne National Laboratory, Argonne, Illinois (June 2011).

A Study of the Superallowed β^+ Decay of ^{38}Ca , **H.I. Park**, J.C. Hardy, V.E. Iacob, L. Chen, J. Goodwin, V. Horvat, N. Nica, L. Trache and R.E. Tribble, APS Meeting, Anaheim, California (April 2011).

Application of a high speed digitizer to high-precision nuclear β -decay lifetime measurements, **Lixin Chen** and J.C. Hardy, APS Meeting, Anaheim, California (April 2011).

High-precision digital β counting for superallowed β -decay studies, **Lixin Chen** and J.C. Hardy, APS Meeting, East Lansing, Michigan (October 2011).

Superallowed branching ratio in the β decay of ^{34}Ar , **V.E. Jacob** and J.C. Hardy, APS Meeting, East Lansing, Michigan (October 2011).

The search for nuclear molecules in isobaric analog states of ^{10}B , **A. Kuchera**, G. Rogachev, V. Goldberg, E. Johnson, L. Miller, S. Cherubini, M. Gulino, J.C. Hardy, M. LaCognata, M. Lattuada, R.G. Pizzone, S. Romano, C. Spitaleri, R.E. Tribble, W. Trzaska and A. Tumino, APS Meeting, East Lansing, Michigan (October 2011).

Further test of internal conversion theory with a measurement in $^{119\text{m}}\text{Sn}$, **N. Nica**, 19th meeting of the Nuclear Structure and Decay Data (NSDD) network, IAEA, Vienna, Austria (April 2011).

How to draw a level scheme, or about the nature of gamma-ray spectroscopy data evaluation, **N. Nica**, 19th meeting of the Nuclear Structure and Decay Data (NSDD) network, IAEA, Vienna, Austria (April 2011).

Further test of internal-conversion theory with a measurement in $^{119}\text{Sn}^m$, **N. Nica**, U.S. Nuclear Data Program annual meeting, Brookhaven National Laboratory, Upton, New York (November 2011).

Systematic of giant monopole resonance and recent results, **Y.-W. Lui**, **Invited Seminar**, Heavy Ion Research Facility in Lanzhou (HIRFL), Lanzhou, China (September 2011).

Systematic of giant monopole resonance: expected and unexpected, **Y.-W. Lui**, **Invited Seminar**, Chinese Institute of Atomic Energy (CIAE), Beijing, China (September 2011).

The recent result of the giant monopole resonance measurements and their implications, **Y.-W. Lui**, **Invited Seminar**, Konan University, Kobe, Japan (November 2011).

Resonance scattering to study exotic nuclei at the limits of stability, **V.Z. Goldberg**, **Invited Talk**, Nuclear Physics in Astrophysics V (NPA5), Eilat, Israel (April 2011).

Light proton rich nuclei at the border of nuclear stability and beyond? **V.Z. Goldberg**, **Invited Talk**, 4th International Conference on Proton-emitting Nuclei (PROCON2011), Bordeaux, France (June 2011).

Resonance scattering induced by rare beams (status and future), **V.Z. Goldberg**, **Invited Seminar**, Grand Accelérateur National d'Ions Lourds (GANIL), Caen, France (June 2011).

Resonance study of the $\alpha+^{15}\text{N}$ interaction, **V.Z. Goldberg**, **Invited Seminar**, Laboratori Nazionali del Sud (LNS), Catania, Italy (June 2011).

Mysteries of extreme neutron rich light nuclei, can they be solved? **V.Z. Goldberg**, **Invited Seminar**, Joint Institute for Nuclear Research (JINR), Dubna, Russia (July 2011).

The $^{13}\text{C}+\alpha$ reaction is for nuclear physics and astrophysics, **V.Z. Goldberg**, **Invited Seminar**, Cyclotron Laboratory, EuroAsian University, Astana, Kazakstan (October 2011).

Decay spectroscopy for nuclear astrophysics: beta- and beta-delayed proton decay, **L. Trache**, **Invited Talk**, NPA5: 5th Biannual Conference on Nuclear Physics in Astrophysics, Eilat, Israel (April 2011).

Decay Spectroscopy for Nuclear Astrophysics: β -delayed Proton Decay, **L. Trache**, PROCON2011: 4th International Conference on Proton Emitting Nuclei and Related Topics, Bordeaux, France (June 2011).

Indirect methods for nuclear astrophysics: reactions with RIBs. The ANC method, **L. Trache**, **Invited Lecture**, ENAS 6 – VI European Summer School on Experimental Nuclear Astrophysics, St.Tecla Palace, Acireale, Italy (September 2011).

Decay spectroscopy for nuclear astrophysics, **L. Trache**, **Invited Lecture**, ENAS 6 - VI European Summer School on Experimental Nuclear Astrophysics, St.Tecla Palace, Acireale, Italy (September 2011).

Nuclear astrophysics at Texas A&M with indirect methods using Rare Ion Beams, **L. Trache**, **Invited Lecture**, 9th Russbach Workshop on Nuclear Astrophysics, Russbach, Austria (March 2012)..

New Results with TECSA, **B.T. Roeder**, APS Texas Sections Fall Meeting, Texas A&M University, Commerce, Commerce, Texas (October 2011).

Astrobox - a novel detector for nuclear astrophysics studies with low-energy protons, **B.T. Roeder**, APS Division of Nuclear Physics, East Lansing, Michigan (October 2011).

Radioactive Ion Beam Production, **B.T. Roeder**, XVII Escola de Verao "Jorge Andre Swieca" de Fisica Nuclear Experimental-2012, IFUSP, Sao Paulo, Brazil (January 2012).

New Results with TECSA: Study of the $d(^{26}\text{Al},p)^{27}\text{Al}$ Reaction, **B.T. Roeder**, Direct Reaction with Exotic Beams 2012, Pisa, Italy (March 2012).

The Beta-delayed Proton and Gamma Decay of ^{27}P for Nuclear Astrophysics, **Ellen Simmons**, ENAS 6 – VI European Summer School on Experimental Nuclear Astrophysics, St.Tecla Palace, Acireale, Italy (September 2011).

A New Detection System for Very Low-Energy Protons from β -Delayed p -Decay, **Alexandra Spiridon**, ENAS 6 – VI European Summer School on Experimental Nuclear Astrophysics, St.Tecla Palace, Acireale, Italy (September 2011).

Gluon polarization and jet production at STAR, **P. Djawotho**, **Invited Talk**, (for the STAR Collaboration), XIX Int. Workshop Deep-Inelastic Scat. Related Subjects (DIS 2011), Newport News, Virginia (April 2011).

Gluon polarization measurements with STAR, **P. Djawotho**, **Invited Talk**, (for the STAR Collaboration), 4th Workshop APS Topical Group on Hadronic Physics (GHP 2011), Anaheim, California (April 2011).

π^0 -Charged Particle Correlations at $2.5 < \eta < 4.0$ from $p+p$ Collisions at $\sqrt{s} = 200$ GeV, **J. Drachenberg** (for the STAR Collaboration), APS Div. Nucl. Phys. Meeting, East Lansing, Michigan (October 2011).

Learning from early research experience, **S. Mioduszewski**, **Invited Talk**, Women in Physics Conference, Texas A^M University, College Station, Texas (January 2012).

Probing high-temperature QCD matter, **S. Mioduszewski**, **Invited Colloquium**, Florida Atlantic University, Boca Raton, Florida (April 2012).

High- p_T particle productions and correlations in Au+Au Collisions, **Ahmed Hamed**, 6th International Workshop high- p_T physics at LHC 2011, Utrecht, Netherlands (April 2011).

Gamma-hadron correlations at RHIC, **Ahmed Hamed**, The 9th workshop on QCD phase transition and heavy ion collisions, Hangzhou, China (July 2011).

Exploring the quantum universe, **Ahmed Hamed**, **Invited Colloquium**, Public lecture at Ain-Shams University, Cairo Egypt (August 2011).

Quarks, gluons, and the big bang, **Ahmed Hamed**, **Invited Colloquium**, Public lecture at Ain-Shams University, Cairo Egypt (December 2011).

The early universe, **Ahmed Hamed**, **Invited Colloquium**, Public lecture at Cairo University, Cairo Egypt (December 2011).

Our universe, **Ahmed Hamed**, **Invited Colloquium**, Public lecture at American University in Cairo, Cairo Egypt (December 2011).

High- p_T phenomena at RHIC, **Ahmed Hamed**, The Egyptian Center for Theoretical Physics (ECTP) International conference in LHC era, Cairo, Egypt (December 2011).

Relativistic heavy ion collisions and relics from the early universe, **Ahmed Hamed**, Colloquium at Rice University, Houston, Texas (March 2012).

Heavy quarkonia results in the STAR experiment at RHIC, **Matthew Cervantes**, XIX International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2011), Newport News, Virginia (April 2011).

Probing symmetries of the weak interaction via the β decay of laser-cooled, polarized ^{37}K , **D. Melconian**, **Invited Seminar**, Indiana University Cyclotron Facility, Indiana University, Bloomington, Indiana (April 2011).

Physics with stopped beams at the TRIP-TRAP facility, **P.D. Shidling**, Joint ATLAS-HRIBF-NSCL-FRIB User Workshop, East Lansing, Michigan (August 2011).

Isospin symmetry breaking in the β decay of ^{32}Cl , **D. Melconian**, **Invited Talk**, XXXII Mazurian Lakes Conference on Physics, Piaski, Poland (September 2011).

Precise lifetime measurement of ^{37}K , **P.D. Shidling**, APS April Meeting, Anaheim, California (April 2011).

Search for superheavy elements in $^{197}\text{Au} + ^{232}\text{Th}$ collisions near the Coulomb barrier, **K. Hagel**, 2011 APS DNP Meeting, East Lansing, Michigan (October 2011).

Low density matter and Bose-Einstein condensate, **Katarzyna Schmidt**, 2011 APS DNP Meeting, East Lansing, Michigan (October 2011).

Measuring cluster fusion plasma temperature and density from $^3\text{He}(d,p)^4\text{He}$ and $d(d,p)^3\text{H}$ reactions, **M. Barbui**, 2011 APS DNP Meeting, East Lansing, Michigan (October 2011).

Flow and correlations: recent experimental results on the symmetry energy and reaction dynamics, **Alan McIntosh**, **Invited Talk**, 7th ANL/INT/JINA/MSU annual FRIB Workshop on Interfaces Between Nuclear Reactions and Structure, Institute for Nuclear Theory, University of Washington, Seattle, Washington (August 2011).

Isotopic trends in dynamical breakup, **Alan McIntosh**, **Invited Talk**, Gordon Research Conference on Nuclear Chemistry, New London, New Hampshire (June 2011)

Nuclear temperatures from quadrupole fluctuations, **Alan McIntosh**, **Invited Talk**, Garvin-Olin Medal Symposium in Honor of Sherry Yennello, APS Meeting, Anaheim, California (April 2011)

Nuclear reactions: how to boil a nucleus and what do we Learn from it? **Sherry Yennello**, **Invited Talk**, International Workshop on Nuclear Physics, Stellenbosch, South Africa (May 2011).

Future perspective on symmetry energy investigations, Sherry Yennello, **Invited Talk**, 2nd International Symposium on Nuclear Symmetry Energy (NuSYM), Northhamptom, Massachusetts (June 2011).

Constraining the symmetry energy of nuclear matter using heavy-ion reactions, **Sherry Yennello**, **Invited Talk**, American Chemical Society Meeting, Denver, Colorado (August 2011).

Investigation of the symmetry energy from transverse collective flow, **Sherry Yennello**, **Invited Talk**, Third International Conference on Nuclear Fragmentation (NUFRA2011), Antalya, Turkey (October 2011).

Studies of heavy residues from peripheral collisions near the Fermi energy, **Sherry Yennello**, **Invited Talk**, APS Division of Nuclear Physics Meeting, East Lansing, Michigan (November, 2011).

Constraining the nuclear symmetry energy from fragment yields, **Paola Marini**, **Invited Talk**, Clusters in Nuclei, Nuclear Matter, HIC and Astrophysics ECT* Trento, Italy (June 2011).

SAMURAI TPC: A time projection chamber for constraining the asymmetry energy at high density, **Alan McIntosh**, APS Division of Nuclear Physics, East Lansing, Michigan (November 2011)

Nuclear caloric curves from quadrupole fluctuations, **Alan McIntosh**, APS Meeting, Anaheim, California (April 2011).

Investigation of the affect of a Coulomb force on velocity distributions in multifragmentation, **L. Heilborn**, APS Division of Nuclear Physics, East Lansing, Michigan (October 2011)

Constraining the symmetry energy from fragment yields, **Paola Marini**, International Workshop on Multifragmentation and Related Topics (IWM2011), GANIL, Caen, France (November 2011).

Approaching neutron-rich nuclei towards the r-process path in deep-inelastic collisions at 15 MeV/nucleon, **G. Souliotis**, 3rd International Conference on Nuclear Fragmentation (NUFRA-2011), Antalya, Turkey (October 2011).

Approaching r-process path nuclei in peripheral heavy-ion collisions at 15 MeV/nucleon, **G. Souliotis**, **Invited Talk**, Dynamical Aspects of Nuclear Fission (DANF-2011), Smolenice, Slovakia (October 2011).

Prospects for the Discovery of the Next New Element, **C.M. Folden III**, **Invited Talk**, 11th International Conference on Nucleus-Nucleus Collisions, San Antonio, Texas (May 2012).

Nuclear Science and Society: Radioactivity, Nuclear Power, and Modern Life, Science Café at Café Revolution, **C.M. Folden III**, Bryan, Texas (March 2012).

Introduction to the Heaviest Elements, **C.M. Folden III**, **Invited Talk**, Nuclear Solutions Institute Colloquium, Texas A&M University, College Station, Texas (November 2011).

The Role of Energy in the Formation of the Heaviest Elements, **C.M. Folden III**, **Invited Talk**, XXXII Mazurian Lakes Conference on Physics, Piaski, Poland (September 2011).

Extraction Chromatographic Studies of Rf Homologs using Crown Ether Based Resins, **M.E. Bennett**, 4th International Conference on the Chemistry and Physics of the Transactinide Elements, Sochi, Russia (September 2011).

The Role of Energy in the Formation of the Heaviest Elements, **C.M. Folden III**, 4th International Conference on the Chemistry and Physics of the Transactinides Elements, Sochi, Russia (September 2011).

Extraction Chromatographic Studies of Rf Homologs using Crown Ether Based Resins, **M.E. Bennett**, 242nd American Chemical Society National Meeting, Denver, Colorado (August 2011).

Extraction Chromatographic Studies of Rf Homologs using Crown Ether Based Resins, **M.E. Bennett**, American Nuclear Society National Meeting, Hollywood, Florida (June 2011).

Hadronization by quark coalescence, **C.M. Ko**, **Invited talk**, Jet and Electromagnetic Tomography Summer School, Duke University, Durham, North Carolina (June 2011).

Pion production in transport models, **C.M. Ko**, **Invited talk**, International Symposium on Nuclear Symmetry Energy, Smith College, Northampton, Massachusetts (June 2011).

Triangular flow in relativistic heavy ion collisions, **C.M. Ko**, **Invited talk**, Workshop on QCD Phase Transitions and Relativistic Heavy Ion Collisions, Hangzhou, China (July 2011).

Quarkonia production in HIC, **C.M. Ko**, **Invited talk**, International Symposium on Non-equilibrium Dynamics, Heraklion, Crete, Greece (August 2011).

Anisotropic flows and dihadron correlations in heavy ion collisions, **C.M. Ko**, International Workshop on Particle Correlations and Femtoscopy, Tokyo, Japan (September 2011).

Quarkonia production in heavy ion collisions, **C.M. Ko**, **Invited talk**, International Conference on Primordial QCD Matter in LHC Era, Cairo, Egypt (December 2011).

Exotic hadrons production in HIC, **C.M. Ko**, **Invited talk**, Workshop on Hyperon-Hyperon Interactions and Searches for Exotic Di-Hyperons in Nuclear Collisions, Brookhaven National Laboratory, Upton, New York (February 2012).

Resonances in AMPT, **C.M. Ko**, **Invited talk**, Workshop on Hadronic Resonance Production in Heavy Ion and Elementary Collisions, Austin, Texas (March 2012).

*Short-range correlations, nuclear reactions and spectroscopic information, **A.M. Mukhamedzhanov, Invited Talk***, ECT* Workshop on Correlations in Light Systems, Trento, Italy (June 2011).

*Advances in nuclear reaction theory, **A.M. Mukhamedzhanov, Invited Talk***, DEO Panel (June 2011).

*Equation of state of symmetric and asymmetric nuclear matter at various densities and temperatures, **S. Shlomo, Invited Talk***, European Physical Society – 24th Nuclear Physics Conference :Nuclear Physics in Astrophysics V (NPA5), Eilat, Israel (April 2011).

*Modern energy density functional and the equation of state of nuclear matter. **S. Shlomo, Invited Talk***, Department of Physics, Ohio University, Athens Ohio (February 2012).

*Quark recombination and heavy quarks, **Rainer J. Fries, Invited Talk***, 6th Workshop on High- P_T Physics at LHC, Utrecht, Netherlands (April 2011).

*Quark recombination and heavy quarks, **Rainer J. Fries, Invited Seminar***, University of Minnesota, Minneapolis Minnesota (April 2011).

*Quark recombination and heavy quark diffusion, **Rainer J. Fries***, Quark Matter 2011, Annecy, France (May 2011).

*Heavy flavor diffusion and hadronization in quark-gluon plasma, **Min He, Invited talk***, RHIC & AGS Annual Users' Meeting 2011, Brookhaven National Laboratory, Upton, New York (June 2011).

*Toward a complete description of heavy flavor transport in medium, **Min He***, 7th International Workshop on the Critical Point and Onset of Deconfinement, CCNU, Wuhan, China (November 2011).

*Quark-gluon plasma: from QCD thermodynamics to heavy ion collision phenomenology, **M. He***, Shanghai Jiaotong University, Shanghai, China (October 2011).

*Quark-gluon plasma: from QCD thermodynamics to heavy ion collision phenomenology, **M. He***, Tsinghua University, Beijing, China (October 2011).

*Quark-gluon plasma: from QCD thermodynamics to heavy ion collision phenomenology, **M. He***, National University of Defence Technology, Changsha, China (November 14, 2011).

*Quark-gluon plasma: from QCD thermodynamics to heavy ion collision phenomenology, **M. He***, Nanjing University, Nanjing, China (November 2011).

*Quark-gluon plasma: from QCD thermodynamics to heavy ion collision phenomenology, **M. He***, University of Science & Technology of China, Hefei, China (November 2011).

*Ideal hydrodynamics for bulk & multistrange hadrons at RHIC, **Min He***, Ohio State University, Columbus, Ohio (March 2012).

*Theory of thermal dilepton emission, **R. Rapp, Invited Talk***, Int. Symposium on Charm, Dileptons and Deconfinement, Helmholtz Zentrum Rossendorf, Dresden, Germany (April 2011).

*Many-body approach to heavy flavor in QGP, **R. Rapp, Invited Talk***, Brookhaven Summer Program on Quarkonium in Hot Media, Brookhaven National Laboratory, Upton, New York (June 2011).

Theory of soft electromagnetic emission in heavy-ion collisions, **R. Rapp**, **Invited Lectures**, 51th Cracow School of Theoretical Physics on Soft Side of the LHC, Zakopane, Poland (June 2011).

Overview of open and hidden heavy flavor in hot matter, **R. Rapp**, **Invited Opening Theory Lecture**, 486th Heraeus Seminar (workshop) on Characterizing the QGP with Heavy Quarks, Physikzentrum Bad Honnef, Bad Honnef, Germany (July 2011).

Thermal dileptons: a versatile meter of quark-hadron matter in heavy-ion collisions, **R. Rapp**, **Invited Talk**, STAR Analysis Meeting, University of California at Davis, Davis, California (August 2011).

T-matrix approach to quarkonia in QGP, **R. Rapp**, **Invited Talk**, Int. EMMI workshop on Quarkonia in Deconfined Matter, Acitrezza, Sicily, Italy (September 2011).

Heavy flavor in medium, **R. Rapp**, **Invited Talk**, Quarkonium Theory Workshop, TRIUMF, Vancouver, Canada (October 2011).

Theory of thermal dilepton emission, **R. Rapp**, **Invited Lecture**, Int. School for High-Energy Nuclear Collisions, Central China Normal University, Wuhan, China (October 2011).

The versatility of thermal photons and dileptons, **R. Rapp**, **Invited Talk**, Int. workshop on Thermal Photons and Dileptons, Brookhaven National Laboratory, Upton, New York (December 2011).

In-medium sum rules for vector and axialvector mesons, **P. Hohler**, **Invited Talk**, Int. Resonance Workshop at University of Texas, Austin, Texas (March 2012).

Heavy flavor in hot/dense matter, **R. Rapp**, **Invited Seminar**, RIKEN/BNL Nuclear Theory seminar, Brookhaven National Laboratory, Upton, New York (March 2012).

Mass dissolution and deconfinement, and the quark-gluon plasma, **R. Rapp**, Graduate Student Research Seminar, Texas A&M University, College Station, Texas (November 2011).