



Monday, November 18th, 2024

| Time | Topic | Presenter |
|-------|---|--|
| 8:00 | Registration | |
| | <u><i>Fission Cross Section Lectures – Chair: Keegan Kelly</i></u> | |
| 8:30 | Fission Cross Sections - Experiments | Fredrik Tovesson (ANL) |
| 10:00 | Break | |
| 10:30 | Fission Cross Sections - Theory | Patrick Talou (LANL) |
| 12:00 | Lunch – On your own | |
| 1:30 | <u><i>Fission Cross Section Practical Session – Chair: Esther Leal Cidoncha</i></u> | Maria Diakaki (NTUA), Denise Neudecker (LANL) |
| 3:15 | Break | |
| | <u><i>Workshop Day 1, Session 1 – Chair: Athanasios Stamatopoulos</i></u> | |
| 3:30 | Realistic fission transmission coefficients in the statistical Hauser-Feshbach compound-nucleus reaction theory | Toshihiko Kawano (LANL) |
| 3:55 | Nuclear Fission Data at GANIL | Fanny Farget (GANIL) |
| 4:20 | Measurements of the $^{238}\text{U}/^{235}\text{U}$ and $^{239}\text{Pu}/^{235}\text{U}$ Fission Cross-Section Ratios using Monoenergetic Neutron Beams | Jack Silano (LLNL) |
| 4:35 | Direct Fission Product Yield Measurements | Guy Savard (ANL) |

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Fission Experiments and Theoretical Advances

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Tuesday, November 19th, 2024

| Time | Topic | Presenter |
|-------|--|--|
| | <u><i>Fission Dynamics / Fragment Lectures – Chair: Ionel Stetcu</i></u> | |
| 8:30 | Fission Dynamics & Fission Fragment Properties – Experiments | Antoine Lemasson (GANIL) |
| 10:00 | Break | |
| 10:30 | Fission Dynamics & Fission Fragment Properties – Theory | Aurel Bulgac (UW Seattle) |
| 12:00 | Lunch – On your own | |
| 1:30 | <u><i>Fission Dynamics / Fragment Practical Session – Chair: Anton Tonchev</i></u> | Jack Winkelbauer (LANL) Panos Gastis (LANL) |
| 3:00 | Break | |
| | <u><i>Workshop Day 2, Session 1 – Chair: Fanny Farget</i></u> | |
| 3:30 | The Fission Program in Inverse Kinematics at VAMOS/GANIL. Fission-Fragments Even-Odd Staggering as a New Fission Dynamics Observable | Diego Ramos (GANIL) |
| 3:55 | Fully Microscopic Three-Dimensional Description of Fission | Marc Verriere (LLNL) |
| 4:20 | Fission studies in Inverse Kinematics at GANIL with VAMOS and PISTA | Pierre Morfouace (CEA) |
| 4:35 | Break | |
| | <u><i>Workshop Day 2, Session 2 – Chair: Julien Taieb</i></u> | |
| 4:45 | Neck Rupture and Scission Neutrons in Nuclear Fission | Ibrahim Abdurrahman (LANL) |
| 5:00 | Recent Results from Neutron- and Photo-Induced Fission | Anton Tonchev (LLNL) |

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Wednesday, November 20th, 2024

| Time | Topic | Presenter |
|-------|---|----------------------------|
| 8:00 | LANSCE Tour – Meet at Fuller Lodge for Tour Bus | |
| 12:30 | Lunch – On your own | |
| 2:00 | Poster Session at Fuller Lodge | |
| 3:15 | Group photo | |
| | <u>Workshop Day 3, Session 1 – Chair: Guy Savard</u> | |
| 3:30 | Results on Prompt Fission Gamma Rays with the STEFF detector at the n_TOF facility | Tobias Wright (U Man) |
| 3:55 | Fission yield measurements in inverse kinematics at relativistic energies (SOFIA) | Audrey Chatillon (CEA) |
| 4:10 | Measurement of Fission Product Yields at the National Synchrotron Light Source II | Andrea Mattera (BNL) |
| 4:25 | Break | |
| | <u>Workshop Day 3, Session 2 – Chair: Diego Ramos</u> | |
| 4:35 | ²³⁷ Np fission fragment study with FALSTAFF at NFS | Deby T. Melcom (GANIL) |
| 4:50 | Cumulative fission product yields from neutron-induced fission of ²³⁵ U and ²³⁹ Pu at 4.6 MeV | Anthony Ramirez (LLNL) |
| 5:05 | PFNS in the ²³⁵ U(n,f) Reaction | Benoit Mauss (CEA) |
| 5:20 | VENETA: A New Neutron Detector Array for Precise PFNS Measurements at Los Alamos | Cyril Lenain (CEA) |
| 5:35 | Selecting a Pair of Differential and Integral Experiments that Reduce Uncertainties in Intermediate-Energy ²³⁹ Pu Nuclear Data | Christi Thompson (LANL) |

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Thursday, November 21st, 2024

| Time | Topic | Presenter |
|-------|--|--|
| | <u><i>Fission Neutron and γ-ray Lectures – Chair: Patrick Talou</i></u> | |
| 8:30 | Fission Neutron & Gamma-ray Emission – Experiments | Keegan Kelly (LANL) |
| 10:00 | Break | |
| 10:30 | Fission Neutron & Gamma-ray Emission – Theory | Jorgen Randrup (LBNL) |
| 12:00 | Lunch – On your own | |
| 1:30 | <u><i>Fission Neutron and γ-ray Practical Session – Chair: Abdel Chebboubi</i></u> | |
| 3:00 | Break | Ramona Vogt (LLNL), Ionel Stetcu (LANL) |
| | <u><i>Workshop Day 4, Session 1 – Chair: Roberto Capote</i></u> | |
| 3:30 | Prompt Fission Neutron Multiplicity Measurement Across the Ages | Julien Taieb (CEA) |
| 3:55 | FIFRELIN: a Keystone to Study Nuclear Fission | Abdel Chebboubi (CEA) |
| 4:20 | Neutron and γ -ray emission in fast neutron induced fission | Gilbert Belier (CEA) |
| 4:35 | Break | |
| | <u><i>Workshop Day 4, Session 2 – Chair: Audrey Chatillon</i></u> | |
| 4:45 | High energy fission neutrons: status review | Roberto Capote (IAEA) |
| 5:00 | Scission deformation of $^{120}\text{Cd}/^{132}\text{Sn}$ neutronless fragmentation in $^{252}\text{Cf}(\text{sf})$ | Alexis Francheteau (GANIL), Gilbert Belier (CEA) |
| 5:15 | Prompt fission neutron spectra and angular distributions measured in narrow windows for fragment masses and total kinetic energies: a puzzling result and a possible explanation | Nicolae Carjan (IFIN-HH) |
| 5:30 | Dinner – Bradbury Museum, Los Alamos, NM -Arrive by 6:00 pm -Exit by 7:30 pm | |

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Friday, November 22nd, 2024

| Time | Topic | Presenter |
|-------|--|--|
| | <u><i>Fissions Applications Lectures – Chair: Denise Neudecker</i></u> | |
| 8:30 | Transport, Integral Experiments & Applications – Integral Experiments for Nuclear Fission Data | Jesson Hutchinson (LANL) |
| 10:00 | Break | |
| 10:30 | Transport, Integral Experiments & Applications – Nuclear Fission Reactors & Transport | Joetta Goda (LANL) |
| 12:00 | Lunch – On your own | |
| 1:30 | <u><i>Fission Applications Practical Session – Chair: Athanasios Stamatopoulos</i></u> (UQ/covariances, ENDFtk) | Keegan Kelly (LANL), Wim Haeck (LANL) |
| 3:00 | Break | |
| | <u><i>Workshop Day 5, Session 1 – Chair:</i></u> | Joetta Goda |
| 3:30 | Critical Experiments and Their Important Role in the Nuclear Data and Code Validation | Catherine Percher (LLNL) |
| 3:55 | The Importance of the Fission Process in Astrophysics | Rebecca Surman (ND) |
| 4:20 | HRS for Fission Measurements | Remco Zegers (MSU) |
| 4:45 | Break | |
| | <u><i>Workshop Day 5, Session 2 – Chair: Marc Verriere</i></u> | |
| 4:55 | Applying Machine Learning to Explore Biases in Fission Experiments | Denise Neudecker (LANL) |
| 5:20 | Fragment-correlated γ -ray emission from $^{252}\text{Cf(sf)}$ | Ivan Tolstukhin (ANL) |
| 5:35 | Closeout – Goodbye FIESTA 2024 | |