**Session Program**

**28 February 2022 to 4 March 2022**

# Workshop for Applied Nuclear Data Activities (WANDA 2022) [FINAL]

# Session Four

Cisco WebEx (Virtually)

# Wednesday 2 March

12:30

## Session Four: Photon Reactions and Transport
**Session** | **Location:** Cisco WebEx (Virtually) | **Conveners:**
Calvin Howell (Duke), Toshihiko Kawano (LANL), Cameron Miller (DHS), Bret Beck (LLNL)

### 12:30–12:32   Introduction
**Speaker**
Bret Beck (LLNL)

### 12:32–12:37   What applications utilize these data, and what are the data needs?
**Speaker**
Cameron Miller (DHS/CWMD)

### 12:37–12:52   What applications utilize these data, and what are the data needs?
**Speaker**
Brian Quiter (LBNL)

### 12:52–13:07   Cargo Inspection Applications and Needs
**Speaker**
Joseph Bendahan

### 13:07–13:22
**Cross Section Measurements of Photonuclear Reaction Pathways Towards Promising Medical Radioisotopes**
**Speaker**
Mohammad Ahmed (NCCU)

### 13:22–13:30   Break

### 13:30–13:50
**Available Photonuclear Reaction Data and Libraries, and Evaluation Method**
**Speaker**
Toshihiko Kawano (LANL)

### 13:50–14:05
**Overview of Photon-induced Nuclear Reaction Research at the HIGS Facility**
**Speaker**
Ying Wu (Duke)

### 14:05–14:20   Brief Overview on Facilities for Photonuclear Reactions in Europe
**Speaker**
Norbert Pietralla (TUD)

### 14:20–14:45   Discussion and Summary

### 14:45–14:55   Break

**14:55–15:15**

**What theoretical capabilities or developments are needed for evaluations?**

**Speaker**

Erich Ormand (LLNL, Retired)

**15:15–15:30**   **Processing photo-nuclear and photo-atomic data in NJOY**

**Speaker**

Wim Haeck (LANL)

**15:30–15:35**

**Photonuclear and photoatomic data for transport codes using GNDS, FUDGE and GIDI+**

**Speaker**

Caleb Mattoon (LLNL)

**15:35–15:45**   **Photonuclear Physics Options in the MCNP6 Transport Code**

**Speaker**

Michael Rising (LANL)

**15:45–15:55**   **Geant4 gamma transport**

**Speaker**

Vladimir Ivantchenko (CERN)

**15:55–16:30**   **Discussion and Summary**

16:30