

## **Workshop will be held in Physics Astronomy Building, C-520**

### **Day 1: Compton scattering on the proton**

8:00 am Registration, Physics Astronomy Building, C-411  
8:50 Welcome, Goals, etc.  
9:00 Meissner: ChiPT overview with focus on its implications for Compton scattering  
9:45 Beck: Nucleon Compton scattering results from Mainz  
10:30 Coffee  
11 Hyde: Virtual Compton Scattering and Generalized Polarizabilities  
11:45 McGovern: ChiPT results for gamma-p polarizabilities and observables  
12:30 pm LUNCH  
3:30 Coffee available; informal discussion  
4:00 Discussion session: Holstein to lead  
4:30 Pasquini: Dispersion relations, spin polarizabilities, and places to look in the future  
5:15 Miskimen: The HIGS facility: generalities + the proton Compton program

### **Day 2: Compton scattering on the neutron**

9:00 am Feldman: review of gamma-d experiments  
9:45 Schroeder: The MAX-Lab facility + Compton@MAX-Lab  
10:30 Coffee  
11:00 Griesshammer: Compton scattering from deuterium in ChiEFT  
11:45 L'vov: Potential-model calculations of Compton on deuterium  
12:30 pm LUNCH  
3:30 Coffee available, informal discussion  
4:00 Shukla: Compton scattering from Helium-3  
4:45 Ahmed/Feldman/Gao: Plans for Compton scattering from light nuclei at HIGS  
5:30 Discussion session: Nathan to lead

### **Day 3: Low-energy photons and few-nucleon systems**

9:00 am Arenhoevel: Deuteron photo- and electro-disintegration at low energies  
9:45 Hammer: Pionless theory overview  
10:30 Coffee  
11:00 Weller: HIGS results on photodisintegration, GDH on deuterium, etc.  
11:45 Nagai: Deuteron and  $4\text{He}$  photodisintegrations at low energies  
12:30 pm LUNCH  
3:30 Coffee available, informal discussion  
4:00 Discussion session: Norum to lead  
4:30 Annand: four-body photodisintegration review and future plans  
5:15 Quaglioni: LIT results for photodisintegration and  $3\text{NF}$   
6:30 pm WORKSHOP DINNER AT THE PORTAGE BAY CAFE

### **Day 4: Three-nucleon forces probed in photodisintegration**

9:00 am Epelbaum: ChiEFT for few-nucleon systems (incl. discussion of current operators)  
9:45 Park: current operators for the three-nucleon system  
10:30 Coffee  
11:00 Debevec: Review of three-body photodisintegration experiments  
11:45 Golak: Calculations of three-body photodisintegration and sensitivity to  $3\text{NFs}$   
12:30 pm LUNCH  
3:30 Coffee available, informal discussion  
4:00 Discussion session: Gloeckle to lead  
4:30 Barnea: Lorentz Integral Transform results for EM reactions in  $A>4$   
5:15 Platter: Pionless theory results for photon reactions in the three-body system  
5:40 Zong: Three-body photodisintegration of polarized  $3\text{He}$  with a polarized photon beam

### **Day 5: The future, the stars**

9:00 am Detmold: hadron polarizabilities on the lattice  
9:45 Xu: The SLEGS facility at the Shanghai light Source  
10:30 Coffee  
11:00 Fujiwara: Science Facilities with Inverse Compton Photon beam in Japan and their new developments  
11:45 Nollett: Soft photons and light nuclei—astrophysical implications  
12:30 pm Final discussion and workshop closing  
1:00 LUNCH

(Talks are 35 minutes with an additional 10 minutes for discussion, unless otherwise noted.)