

## **LWS Flare Dynamics FST Team Meeting, December 8-9, 2014, NJIT**

### **Agenda**

#### **Day 1: Monday December 8 (112, Eberhardt Hall)**

9:00-9:10 Welcome and Introduction

#### **Team Reports (past results and future research plan)**

9:10-10:00 Lucia Kleint (Phil Judge Team)

Bridging the Gap in Space, from the Ground: Dynamics and Magnetic Fields of Flares in the Photosphere and in the Chromosphere

10:00-10:40 Haimin Wang

Study of Flare Footpoint Emissions Using Advanced Observing Tools

10:40- 11:00 Coffee Break

11:00-11:50 Joel Allred

Computational and Observational Investigations into the Atmospheric Response to Flare Accelerated Particles

11:50-12:40 Vahe Petrosian

Coupling of Particle Acceleration and Atmospheric Response Processes in Solar Flares: Combined Kinetic-fluid Modeling and Multiwavelength Observations

12:40-2:00 Lunch with Faculty, Staff, and Students of Physics (407 Tiernan)

#### **Team Reports Continues**

2:00 -2:50 Chang Liu

Exploring the Physical Relationship Among Photospheric Magnetic Field Changes, Sunspot Motions, and Sunquakes During Solar Eruptions

#### **Science Talks**

3:00-3:30 Fatima Rubio, Coupling of Particle Acceleration and Hydrodynamic response in Solar Flares

3:30-4:00 Yan Xu, High Resolution Observations of Negative Flares

4:00-4:30 Natsuha Kuroda, Observation of 2011-02-15 X2.2 flare in Hard X-ray and Microwave

4:30-5:00 Xin Chen, Differential Emission Measure (DEM) Analysis of Two Super-Arcade Downflows (SADs) Events

## **Day 2: Tuesday December 9**

### **New Instrumentation**

9:00 to 9:40 Casten Denker (Capability of Flare Studies of GREGOR, Via Webex)

9:40 to 10:20 Dale Gary (Capability of Flare Studies of EOVSA)

10:20 to 10:40 Coffee Break

### **Team Event discussions**

(Availability of data, existing science results in modeling and observations, future study, especially the usage of observational inputs for modeling. Focus on observation/modeling of flare emissions, sunquake signature, magnetic field evolution)

10:40-11:20

February 15, 2011 X2.2 flare, (Leaders: Natsuha Kuroda and Shuo Wang)

11:20-12:00

March 29, 2014 X1.1 flare (Leaders: Lucia Klient and Chang Liu)

12:00-1:00 Lunch

1:00-1:40

Oct. 24, 2014 X3.1 flare (Leader: Dale Gary)

1:40-2:20 Other Possible Team Events

2:20-3:30

Summary and free discussions, annual reports, next meeting etc.

