

# Minutes UFO Meeting

Date of meeting  
12<sup>th</sup> November 2010  
Matthias Balzer

## ***Participants***

T. Baumbach, T. dos Santos Rolo , T. Weiß (ISS)  
M. Weber, C. Buchwald, A. Kopmann, M. Balzer, U. Stevanovic (IPE)  
V. Asadchikov (SCI)  
S. Tsapko, E. Reznichenko, V. Reznichenko (TPU)

## ***Topics***

### **1. Introduction of partners**

New participants:

Sergei Tsapko, Elena Reznichenko, Vladimir Reznichenko (TPU)  
Thomas Weiß (ISS)  
Christiane Buchwald, Uros Stevanovic (IPE)

### **2. Kick off Meeting**

The kick off meeting was split into two meetings.

First part is at the 24<sup>th</sup> November and the second meeting is at the 6<sup>th</sup> to 7<sup>th</sup> December.

### **3. Discussion about agenda for the kick-off-meeting at 24<sup>th</sup> November 2010**

Suggestion

- Welcome
- Status Mechanics
- Work package leader
- Work packages
- Schedules and organisation
- Milestones
- Funds

### **4. Presentation about the setup of TopoTomo and reconstruction hardware.**

T. dos Santo Rolo gave an overview about the status of existing environment.

- High speed X-ray detectors 50fps – 60 kfps, 6 x 6  $\mu\text{m}$ , 1-20 $\mu\text{m}$  size, 256x256 pixel
- High speed tomography, prec.< 1  $\mu\text{m}$   
1000 rounds / minute => 2000 topographies / minute => 30 tps
- Sample changer: 50 samples capacity, changing time 12s
- Acceleration time of tomography: 10 s (0 to 1000 rounds / minute)
  
- Agreement on UFO specifications

- 10GbE NIC (1GbE NIC camera)
- HW for reconstruction:
  - 4 x GPU, 8 core (Xeon, 16 GB host memory, 4x4 GB GPU memory)
  - 1 x GPU, 8 core, 96 GB memory, 4 GB GPU memory
- Reconstruction time 60s: 59s data I/O, computing time <1s
- 1 m/s object speed, 1000  $\mu\text{m}$  window of interest =>need a fast camera

## **5. Preparation for the kick off meeting**

The participants groups should indicate their knowledge, preliminary works, preferences and contribution to the project. The feedback should be send to M. Balzer.

## **6. Next meeting 18<sup>th</sup> November in building 329, room 305 at 15:00**