

# Course on Interferometric Point Target Analysis (IPTA)

## *Principles and processing approach*

**11 – 14 November 2019 (3 ½ days)**

In **Persistent Scatterer Interferometry (PSI)** the temporal and spatial characteristics of interferometric signatures collected from point targets are exploited to accurately map surface deformation histories, terrain heights, and relative atmospheric path delays. Our course addresses theoretical aspects of Persistent Scatterers Interferometry as well as practical approaches supported by GAMMA's **Interferometric Point Target Analysis (IPTA)** Software module.

The course covers the following aspects

- Principles of Persistent Scatterer Interferometry
- Basic processing with IPTA (point identification, phase unwrapping, atmospheric phase model, etc.)
- Advanced processing with IPTA (non-uniform motion, small stacks)

A brief introduction to SAR interferometric processing is planned at the beginning of the course.

This course is suited to participants who

- are interested in PSI and would like to gain an insight on the IPTA processing approach
- are familiar to IPTA but require more in depth knowledge of IPTA processing capabilities

The course will be held by GAMMA personnel. Course language is English.

### **Schedule**

Mon., 11 Nov.	09:00 – 17:00	Review of interferometric SAR processing, Principles of Persistent Scatterer Interferometry.
Tue., 12 Nov.	09:00 – 17:00	IPTA processing: theory and examples
Wed., 13 Nov.	09:00 – 17:00	IPTA processing: theory and examples
Thu., 14 Nov.	09:00 – 12:00	Advanced IPTA processing

### **Location**

GAMMA Main Office is in Gümligen, Bern. GAMMA is reachable with public transport (tram, local train) from Bern. Information will be provided upon registration. For accomodation visit <http://www.berninfo.com>.

### **Course fees**

**Regular: 3600 Swiss Francs (CHF)**

**Students: 2400 Swiss Francs (CHF)**

The fee includes course material, all lunches and a social event on one of the evenings. Participants are required to have own insurance. Registration is required as number of participants is limited. Please use the application form.

### **Contact**

For more information please contact

Dr. Maurizio Santoro, E-mail: [santoro@gamma-rs.ch](mailto:santoro@gamma-rs.ch), Tel: +41-(0)31-9517005 / Fax: +41- (0)31-9517008.

## Application form

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To register, please fill in the application form and send it back per email to [santoro@gamma-rs.ch](mailto:santoro@gamma-rs.ch) or per fax to +41 – (0)31 – 951 70 08.

Participation will be confirmed upon reception of the application form. Thereafter, an invoice will be sent.

If you have any request or comment please report it in the comments box below.

Family name: \_\_\_\_\_

First name: \_\_\_\_\_

Title (Dr., Prof.): \_\_\_\_\_

Institute: \_\_\_\_\_

Department: \_\_\_\_\_

Address: \_\_\_\_\_

Phone number: \_\_\_\_\_

Fax number: \_\_\_\_\_

E-mail: \_\_\_\_\_

Please select as appropriate

Regular

Student

Comments

*Herewith I confirm that the information provided in this application is correct. In case of withdrawal from the course, please inform GAMMA Remote Sensing as soon as possible, and no later than 31 October 2019.*

Date

Signature of participant

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