

# **JOINT RESEARCH PROJECT**

between

**Consiglio Nazionale delle Ricerche  
Istituto di Fisica Applicata “Nello Carrara”  
Firenze – ITALIA**

and

**Univerzitet u Beogradu  
Institut za fiziku  
Beograd, Srbija i Crna Gora**

The two Institutes agree to perform the following research activities in the framework of:

## **Research and development in applied spectroscopy**

Topics:

1. Spectroscopic techniques in cultural heritage:
  - a. studying degradations of colors and pigments on frescos and icons of medieval cultural heritage by different spectroscopy techniques,
  - b. studying climatic influence, rainfalls, soluble pollutants on degradation and destruction of wall paintings, icons and other cultural heritage,
  - c. improving remote sensing techniques and methods for art history and archeological localization.
  
2. Environmental monitoring by imaging spectroscopy:
  - a. development of new methods for ecosystem monitoring, description, analysis,
  - b. development of new spectrometric instrumentation for measurements of bio-geo-chemical parameters for better describing processes in atmosphere, water and soil.

The two Institutes will cooperate through bilateral researches, European Commission Projects and other international projects. On this basis the following activities will be performed by:

- exchange of students and visiting researchers,
- development of new equipments and related software.

This agreement will last for two years and can be renewed.

**On behalf of CNR IFAC**

**On behalf of BU IF**

Project coordinator: Ivan Pippi

Project coordinator: dr. Goran Stanisić

Director: dr. Pier Luigi Emiliani

Director: Prof.dr. Dragan Popović

Date:

Date: