

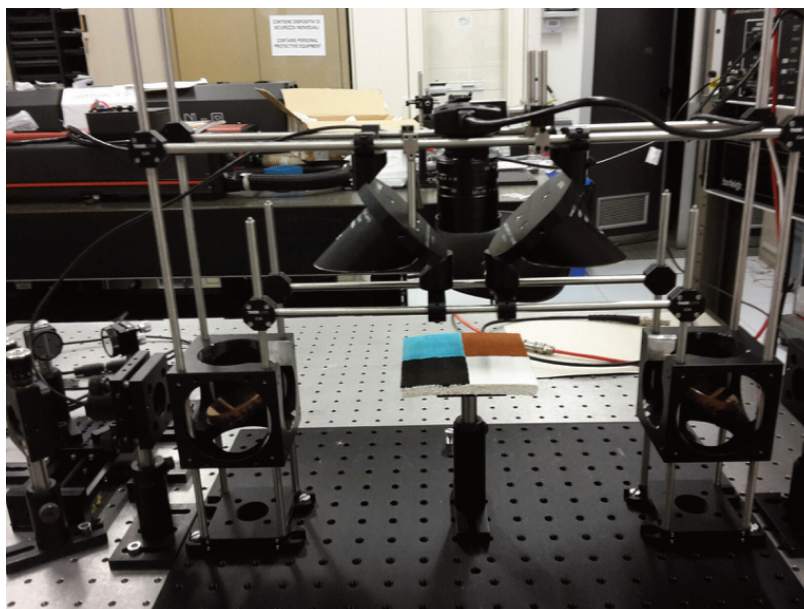
# NON-DESTRUCTIVE STRATIGRAPHY OF OPAQUE ITEMS WITH TERAHERTZ RADIATION

**Innovations and benefits** - The stratigraphy with terahertz radiation allows to study the internal structure of items opaque to visible radiation by exploiting the transparency of materials in the far infrared. The technique uses non-ionizing radiation, it is non-destructive and does not involve any contact with the sample. Structures with a resolution of around 100 micron and a maximum depth of a few centimeters can be studied.

## Use

- Stratigraphy of non-metallic samples (plastic, ceramic, anhydrous organic);
- Revealing of buried structures and/or defects.

**Applications and ongoing Activities** - Participation in the COBRA project (Development and dissemination of advanced methods, technologies and tools for the conservation of cultural heritage, based on the application of radiation and enabling technologies).



## Characteristics:

**CUSTOM** The service is carried out at laboratory experimentation level (TRL = 3) but does not require end user involvement