**Proposal to Access NFFA-Trieste Date** DD/MM/YYYY

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| **Name**  |  | **Affiliation** |  |
| **Country** |  |

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| 1. General part |
| **Proposal category** | \* |  New  | \* | Continuation  | \* | Resubmission |
| **Proposal title** *(max 100 characters)* |  |
| **Abstract** *(max 500 characters; to be pasted also in the online form)* |  |
| **Combination of methods required***Please select all needed for the project.*  | **Methods** | **Days\* required** |
| Growth | PLD growth  |  |
| MBE-oxide growth  |  |
| MBE masked deposition growth |  |
| PVD growth |  |
| GLOVEBOX |  |
| Characterization | STM/STS characterization |  |
| SEM ex-situ analysis |  |
| TEM/STEM ex-situ analysis |  |
| Off-line XPS analysis |  |
| MOKE characterization |  |
| XRD ex-situ analysis |  |
| Advanced Spectroscopy | ARPES with 8-120 eV synchrotron radiation |  |
| Spin-resolved ARPES with 8-120 eV synchrotron radiation |  |
| XPS with 150-1600 eV synchrotron radiation |  |
| XAS/XMCD with 150­1600 eV synchrotron radiation |  |
| Ambient pressure XAS with 150-1600 eV synchrotron radiation |  |
| FTIR spectroscopy with 400–4000 cm⁻¹ wavelength range synchrotron radiation  |  |
| FTIR microscopy with 400–4000 cm⁻¹ wavelength range synchrotron radiation  |  |
| FTIR nanoscopy with 400–4000 cm⁻¹ wavelength range synchrotron radiation  |  |
| Time-resolved PES and spin polarization with 17­31 eV HHG laser source |  |
| Magnetoelastic Transient Grating with 50kHz-1MHz repetition rate laser source |  |
| Theory | Structural properties and Energetics |  |
| Electronic properties |  |
| Magnetic properties |  |
| Ferroelectric properties |  |
| **Total days** |  |

*\* 1 Day equals to 24 hours of instrument availability, while the support of the NFFA-Trieste staff is guaranteed only during regular working time (8 hour a day).*

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| **2. Scientific part** |
| **Background** |  |
| **Motivation for the present proposal** |  |
| **Project description** |  |
| **Explain why this work calls for access to the NFFA-Trieste facility** |  |
| **References** |  |
| **Notes** |  |

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| **3. Technical part** |
| **Sample n. 1 (all fields are required, add more for more samples)** |
| **Substance***(max 100 characters)* |  |
| **Supplier** |  |
| **Chemical formula** |  |
| **Physical state** | \* | Powder |
| \* | Liquid |
| \* | Single crystal |
| \* | Multi-layer |
| \* | Biocrystallography |
| \* | Gas |
| \*　　　　　 | Solid |
| \* | Other ( ) |
| **Size [mm3]** |  |
| **Mass [mg]** |  |
| **Sample container** | (capillary, flat plate, pressure cell, etc.) |
| **Risk in sample or equipment***We do not accept any experiment that causes a risk to contaminate our laboratory or equipment.* | Radioactive  | \* | Yes  | \* | No  |
| Oxidising | \* | Yes | \* | No |
| Corrosive | \* | Yes | \* | No |
| Contaminant (***for environment and for UHV apparatuses***)  | \* | Yes | \* | No |
| Combustive | \* | Yes | \* | No |
| Biological hazard  | \* | Yes | \* | No |
| Carcinogenic / Mutagenic / Teratogenic  | \* | Yes | \* | No |
| Inflammable | \* | Yes | \* | No |
| Toxic | \* | Yes | \* | No |
| Explosive | \* | Yes | \* | No |
| **Equipment available at NFFA-Trieste***(max 250 characters)**How you plan to use NFFA-Trieste facilities as described in the website and technical specifications needed.* |  |
| **Additional equipment***(max 250 characters)**Request of availability or proposal to bring own equipment and check of compatibility with NFFA-Trieste apparatuses.* |  |
| **Other requirements***(max 250 characters)* |  |