**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)* |  | | | | | |