**SXR Parameter Table for RSXS Standard Configuration**

If multiple samples are planned, please add rows to the table and list all the samples proposed.

|  |  |  |
| --- | --- | --- |
| **Parameter Table for RSXS Standard Configuration** | | |
| **Sample Name** |  |  |
| **Desired measurement** | **Scattering  Absorption**  **RIXS** | **Comments** |
| **Sample temperature range (C)** |  |  |
| **Linear degrees of freedom (x,y,z) for sample** |  |  |
| **Rotational degrees of freedom (Θ,χ,Φ) for sample** |  |  |
| **X-RAY PARAMETERS** |  |  |
| **X-ray Energy (eV)** |  |  |
| **X-ray pulse duration (fs)** |  |  |
| **X-ray focal spot size (h x w) (µm)** |  |  |
| **Need monochromator?** | **Yes**  **No** |  |
| **Monochromatic bandwidth (ev)** |  |  |
| **X-ray beam time (# of shifts)** |  |  |
| **Need DELTA undulator (circularly polarized X-rays)** | **Yes**  **No** |  |
| **Detector positioning range** |  |  |
| **OPTICAL LASER PARAMETERS** |  |  |
| **Pump laser needed?** | **Yes**  **No** |  |
| **Wavelength (nm)** |  |  |
| **Pulse duration range (fs)** |  |  |
| **Maximum pulse energy (µJ)** |  |  |
| **Focal size (FWHM) (µm)** |  |  |
| **Polarization requirements?** |  |  |
| **Minimum fluence on target (mJ/cm2)** |  |  |
| **Grazing angle of incidence?** | **Yes**  **No** | If yes, what? |
| **TSS time tool needed?** | **Yes**  **No** |  |