

**Run 23 S.C. #1: XRD parameter table**

**Matter in Extreme Conditions**

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| Proposal title |  |
| X-ray parameters | x-ray photon energy (energies) |  | keV |
| spot size |  | µm |
| beam mode |  | (e.g. SASE, seeded, etc) |
| Optical laser parameters | pulse duration |  | ns |
| pulse shape(s) |  | (descriptive) |
| Pulse shape(s) |  | (Optional sketches) |
| pulse energy |  | J (total) |
| phase plate (150, 300, or 600) |  | µm |
| time delays (vs X-rays) |  | ns |
| desired pressure range |  | GPa |
| Diagnostic | filter for ePix10k, or “help me decide”  |  | Materials and thicknesses |
| etalon thickness of arm 1 in VISAR |  | mm |
| etalon thickness of arm 2 in VISAR |  | mm |
| number of VISAR test shots |  |  |
| Samples | specification of samples |  | Compositions of all layers in each proposed target |
| X-ray beam time | number of shifts |  |  |