## Data Collection Parameters

| **General** |  |
| --- | --- |
| User |  |
| Date |  |
| Detector mode |  |
| Pixel size (Å) |  |
| Nominal magnification |  |
| Beam setting/mode (µ or n) |  |
| Spot size |  |
| Illuminated area |  |

| **Dose** |  |
| --- | --- |
| Dose per physical pixel per second |  |
| Dose per Å² per second |  |
| Exposure time (s) |  |
| Total dose (e/Å²) |  |
| Number of frames |  |
| Dose per frame (e/Å²) |  |

| **Other** |  |
| --- | --- |
| Desired defocus range |  |
| C2 aperture size (micron) |  |
| Objective aperture size (micron) |  |
| Energy filter slit width (eV) |  |
| Tilt angle |  |
| Phase plate positions |  |
| SerialEM version |  |

| **Processing** |  |
| --- | --- |
| Particle diameter (Å) |  |
| Number of shots per hole |  |
| Number of holes per image shift |  |
| Script run time (hours) |  |
| Script start time |  |
Appendix II. **Grid Inventory.** Grid inventory to track user grids before and after microscope sessions.

| User/Lab: | Session Date: | Project ID: |
|-----------|---------------|-------------|
| Pixel size: | BSL 2? No □ Yes □ Yes, disposal method: |
| Tube name: | Special requests: | Krios1 □ Krios2 □ Talos □ |

| Grid Box Name: | FOR STAFF USE ONLY | Cab and cassette: |
|----------------|--------------------|------------------|
|                | Puck & Slot:       | Circle cartridges to save |
|                | Auto Grid Box Name: | 12               |
|                |                    | 11               |
|                | Grid Box Position  | 10               |
|                | Grid Box Position  | 9                |
|                | Grid Box Position  | 8                |
|                | Grid Box Position  | 7                |
|                | Grid Box Position  | 6                |
|                | Grid Box Position  | 5                |
|                | Grid Box Position  | 4                |
|                | Grid Box Position  | 3                |
|                | Grid Box Position  | 2                |
|                | Grid Box Position  | 1                |

| Grid Box Name: | Puck & Slot: | Auto Grid Box Name: |
|----------------|-------------|---------------------|
| Grid Box Name: | Puck & Slot: | Auto Grid Box Name: |
| Grid Box Name: | Puck & Slot: | Auto Grid Box Name: |
| Grid Box Name: | Puck & Slot: | Auto Grid Box Name: |

| Grid Box Name: | Puck & Slot: | Auto Grid Box Name: |
|----------------|-------------|---------------------|
| Grid Box Name: | Puck & Slot: | Auto Grid Box Name: |
| Grid Box Name: | Puck & Slot: | Auto Grid Box Name: |
| Grid Box Name: | Puck & Slot: | Auto Grid Box Name: |

| Clipped By Date | Clipped By Date | Clipped By Date | Clipped By Date |
|-----------------|-----------------|-----------------|-----------------|
|                 |                 |                 |                 |

| Rings | C-clips | Boxes |
|-------|---------|-------|
| Training | 4TB HD | 8TB HD |

Extra grids back in tube □ Grids from TEM back in tube □