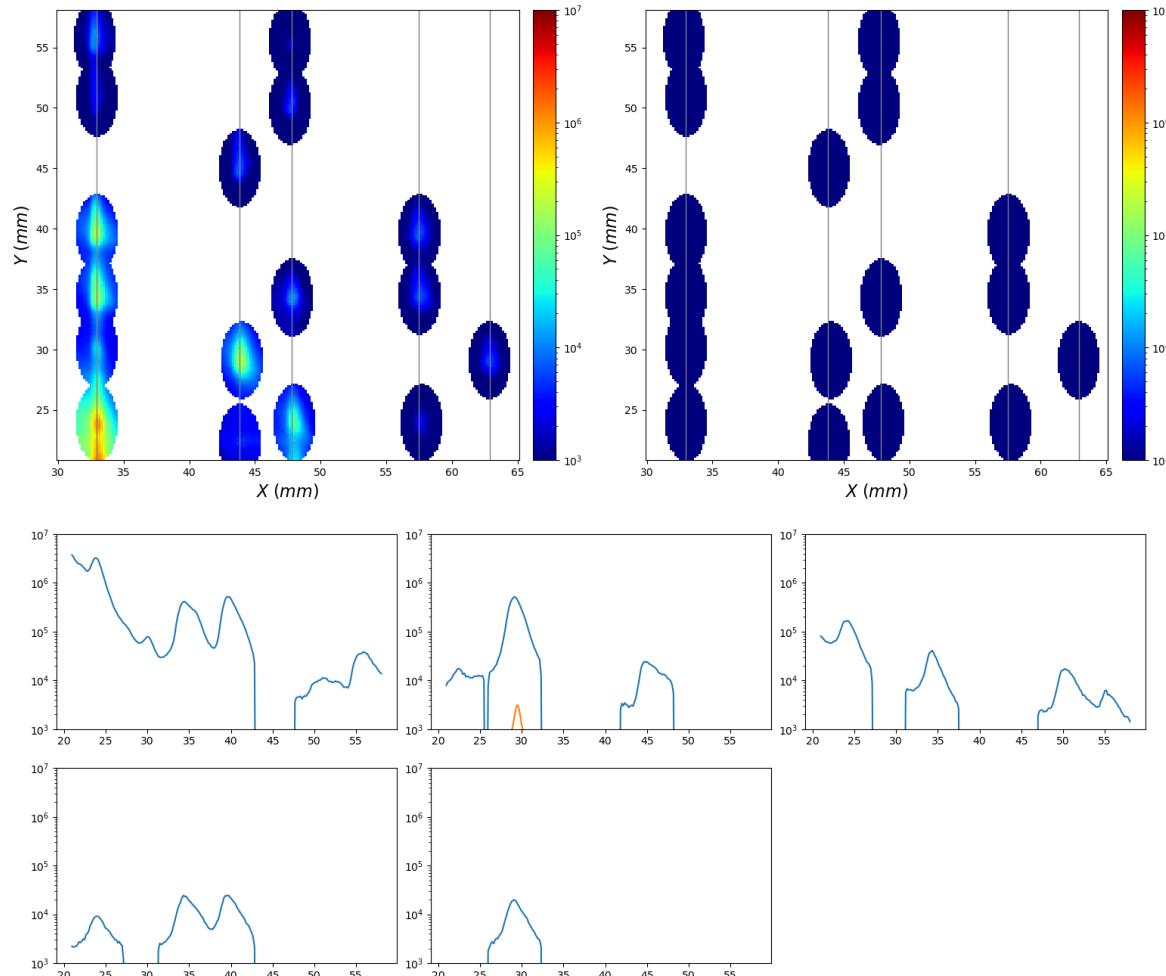


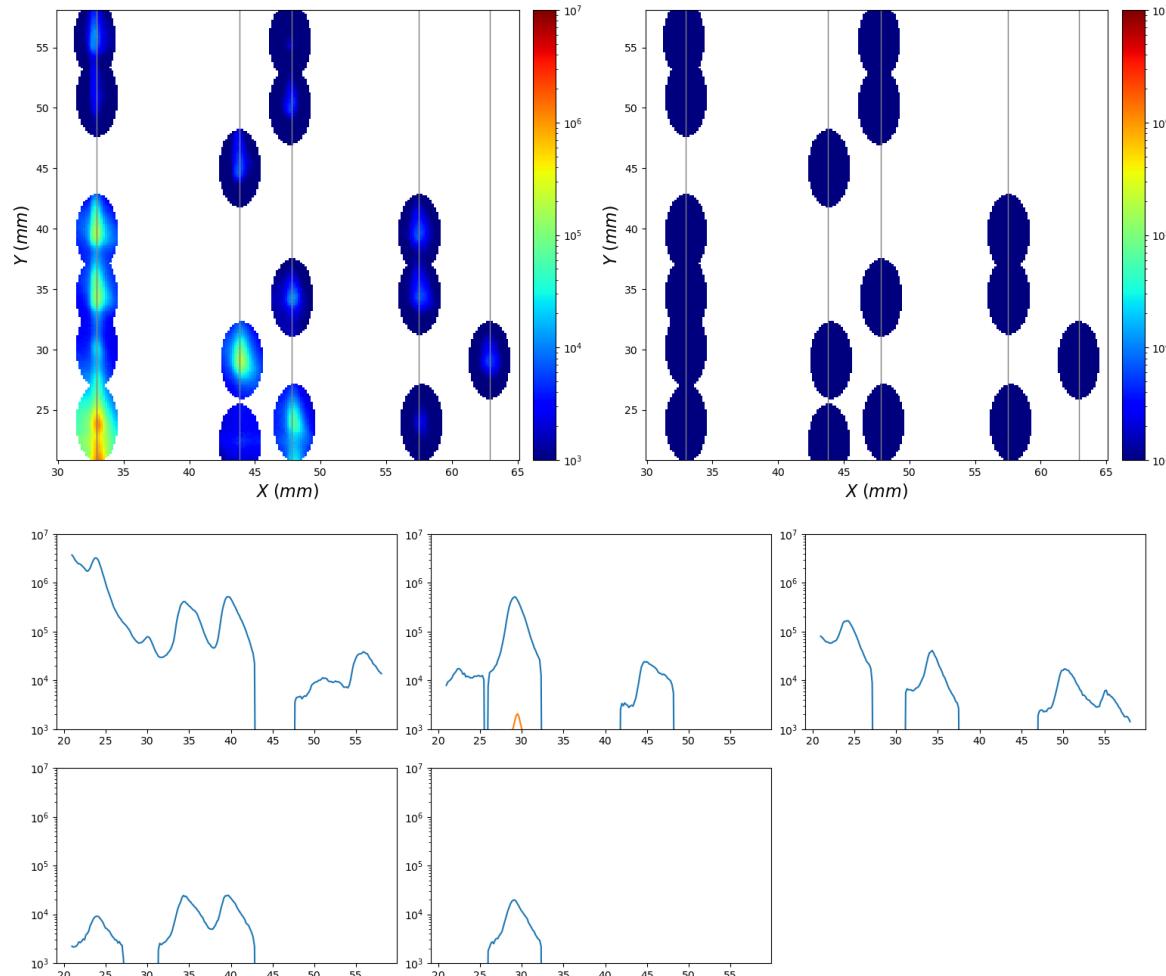
## Single meso, rotation\_z

```
{  
    "sample_builder_type": "SampleBuilderVer2",  
    "roughness": 6.0,  
    "surface_filling_ratio": 0.15,  
    "average_layer_thickness": 1000,  
    "meso_elevation": 50,  
    "meso_factory_type": "SingleMesoFactory",  
    "diffuse_builder_type": "None",  
    "meso_builder_type": "FixedCylinder",  
    "lattice_length_a": 12.5,  
    "lattice_length_c": 31.1,  
    "nparticles": 10,  
    "nanoparticle_radius": 5.02,  
    "sigma_nanoparticle_radius": 0.3,  
    "meso_height": 800,  
    "meso_radius": 2000,  
    "sigma_meso_height": 20.0,  
    "sigma_meso_radius": 20.0,  
    "sigma_lattice_length_a": 0.1,  
    "rotation_x": 0.0,  
    "rotation_z": 34.75  
}
```



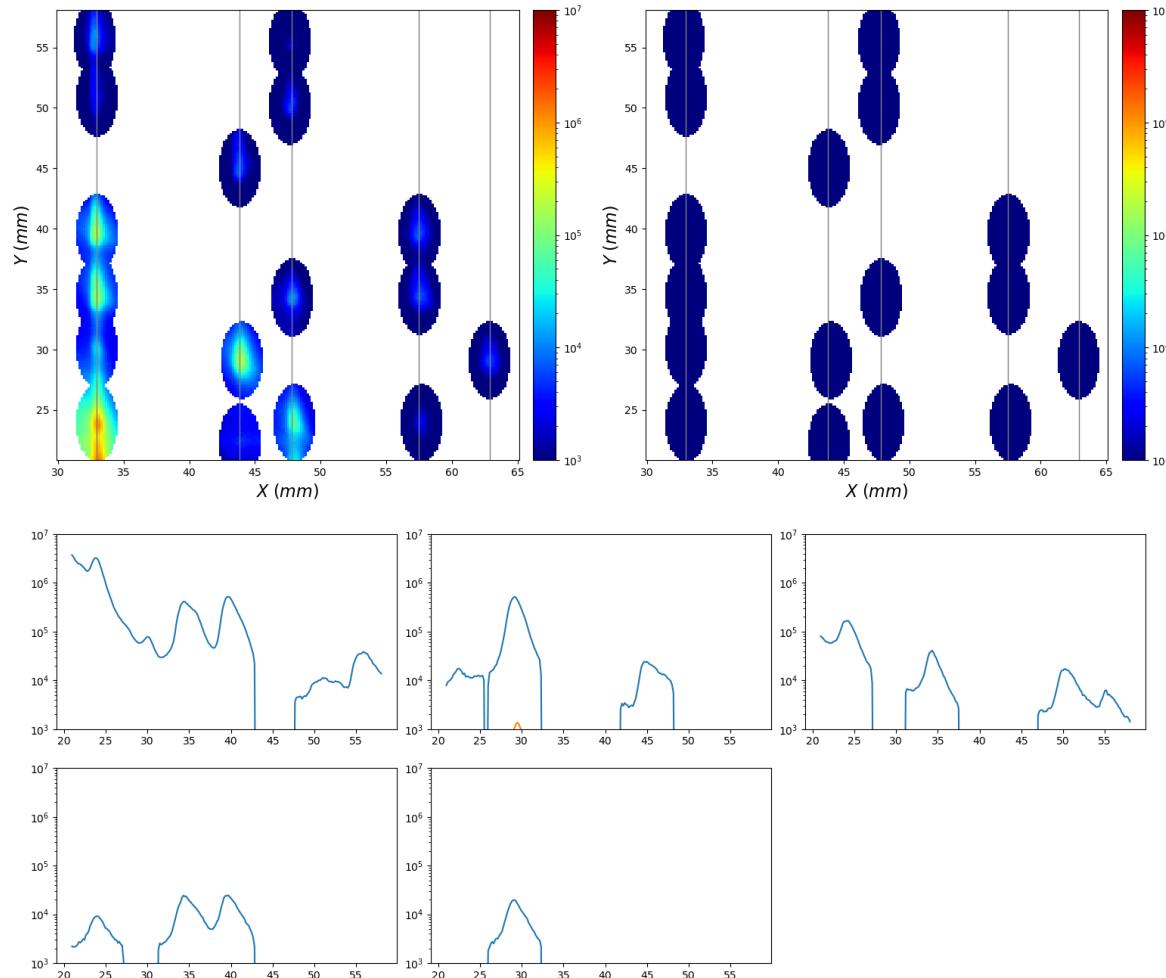
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 34.95
}
```



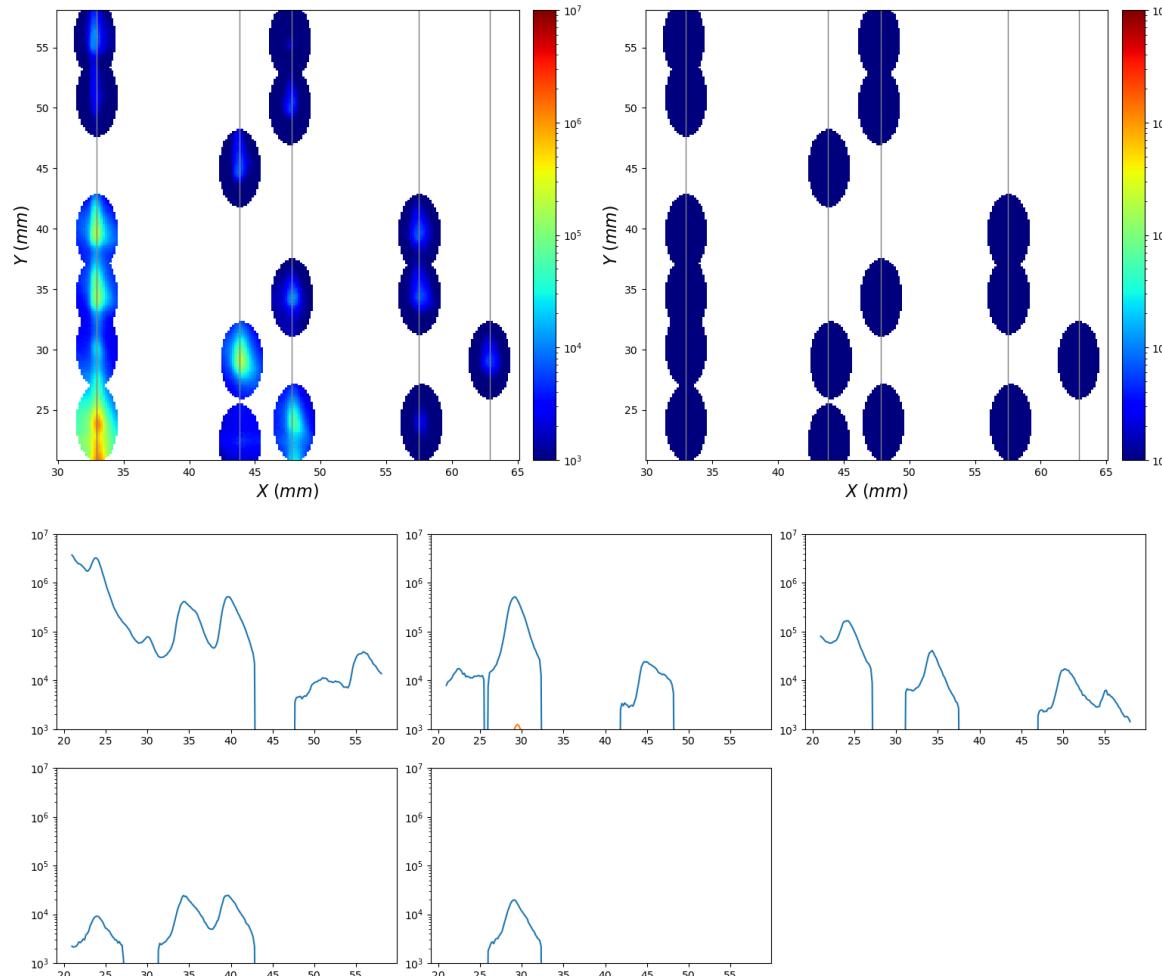
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 35.15
}
```



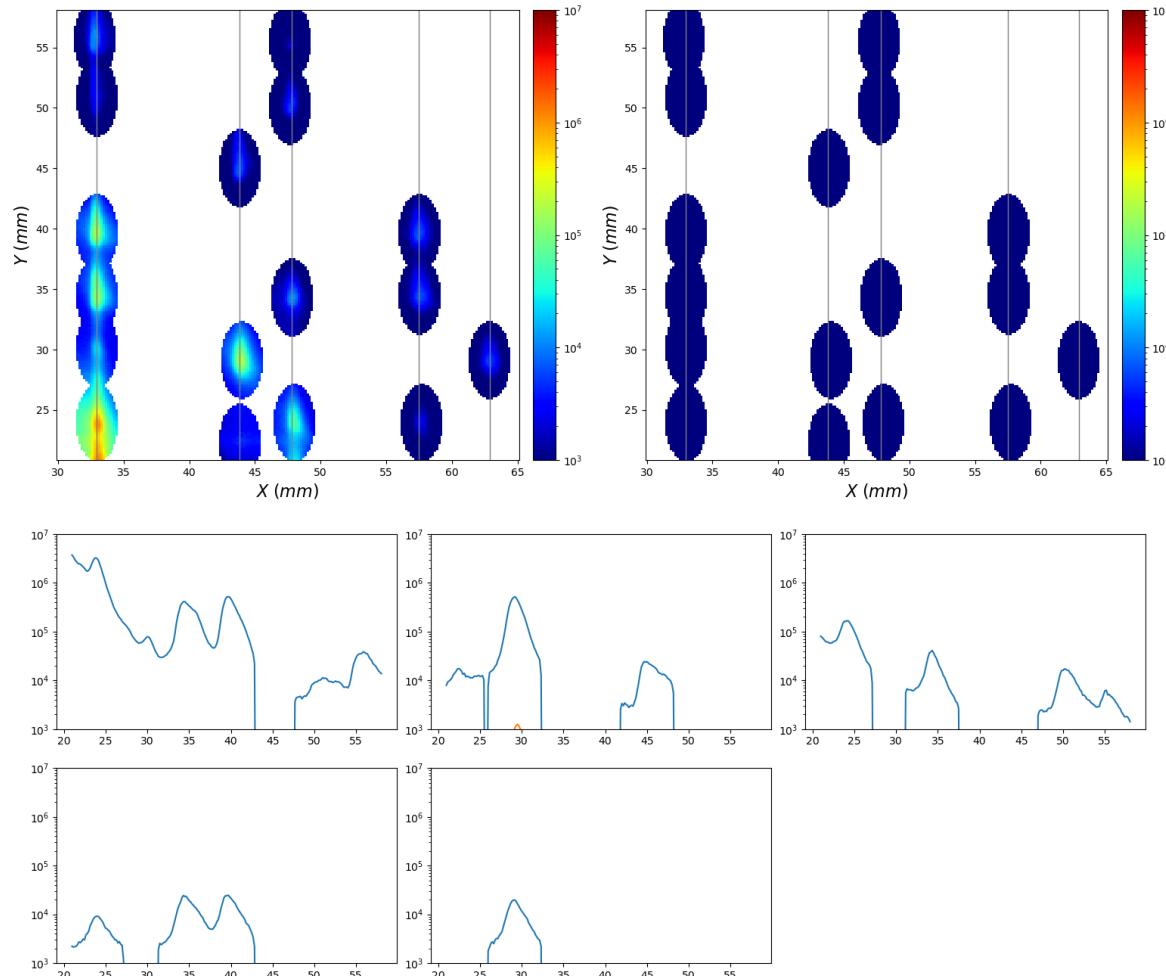
## Single meso, rotation\_z

```
{  
    "sample_builder_type": "SampleBuilderVer2",  
    "roughness": 6.0,  
    "surface_filling_ratio": 0.15,  
    "average_layer_thickness": 1000,  
    "meso_elevation": 50,  
    "meso_factory_type": "SingleMesoFactory",  
    "diffuse_builder_type": "None",  
    "meso_builder_type": "FixedCylinder",  
    "lattice_length_a": 12.5,  
    "lattice_length_c": 31.1,  
    "nparticles": 10,  
    "nanoparticle_radius": 5.02,  
    "sigma_nanoparticle_radius": 0.3,  
    "meso_height": 800,  
    "meso_radius": 2000,  
    "sigma_meso_height": 20.0,  
    "sigma_meso_radius": 20.0,  
    "sigma_lattice_length_a": 0.1,  
    "rotation_x": 0.0,  
    "rotation_z": 35.35  
}
```



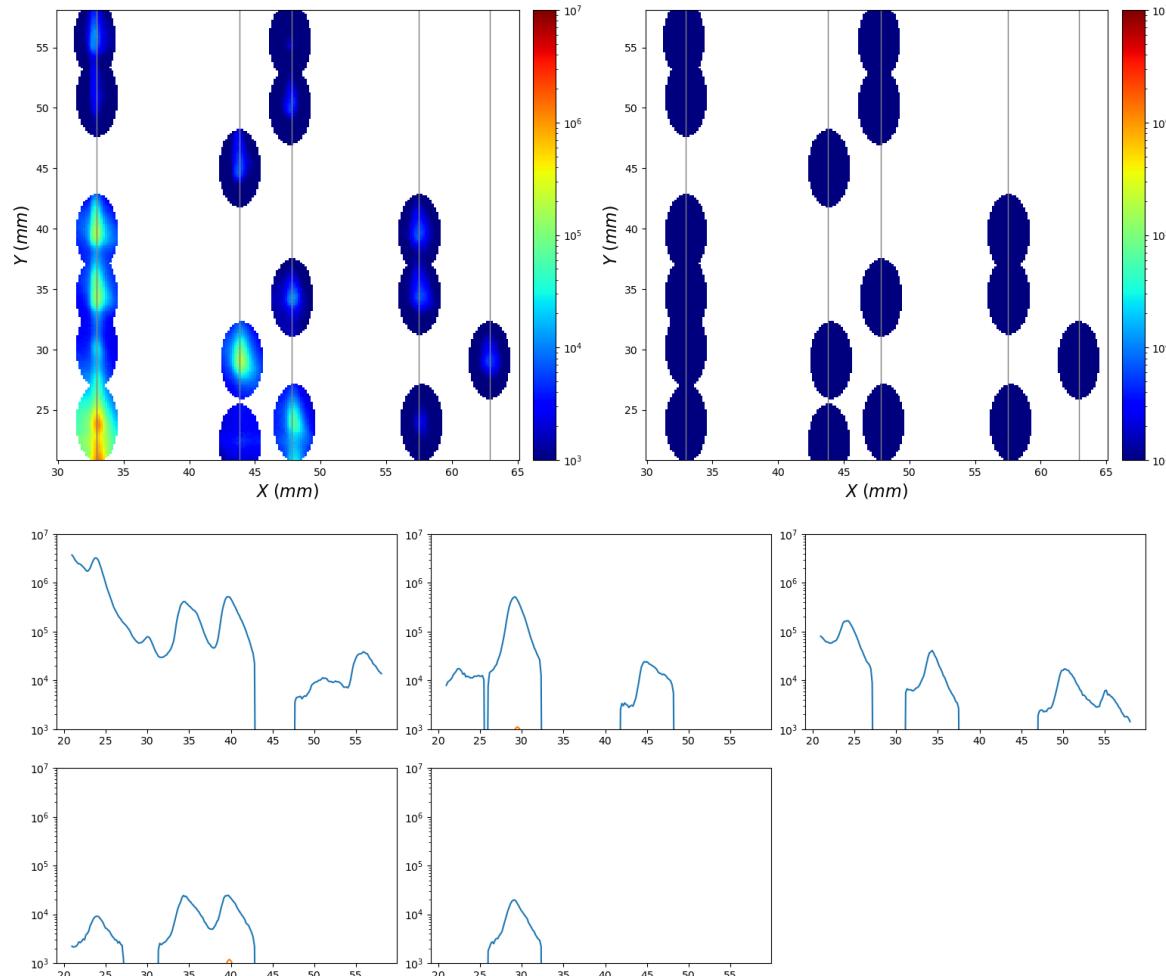
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 35.55
}
```



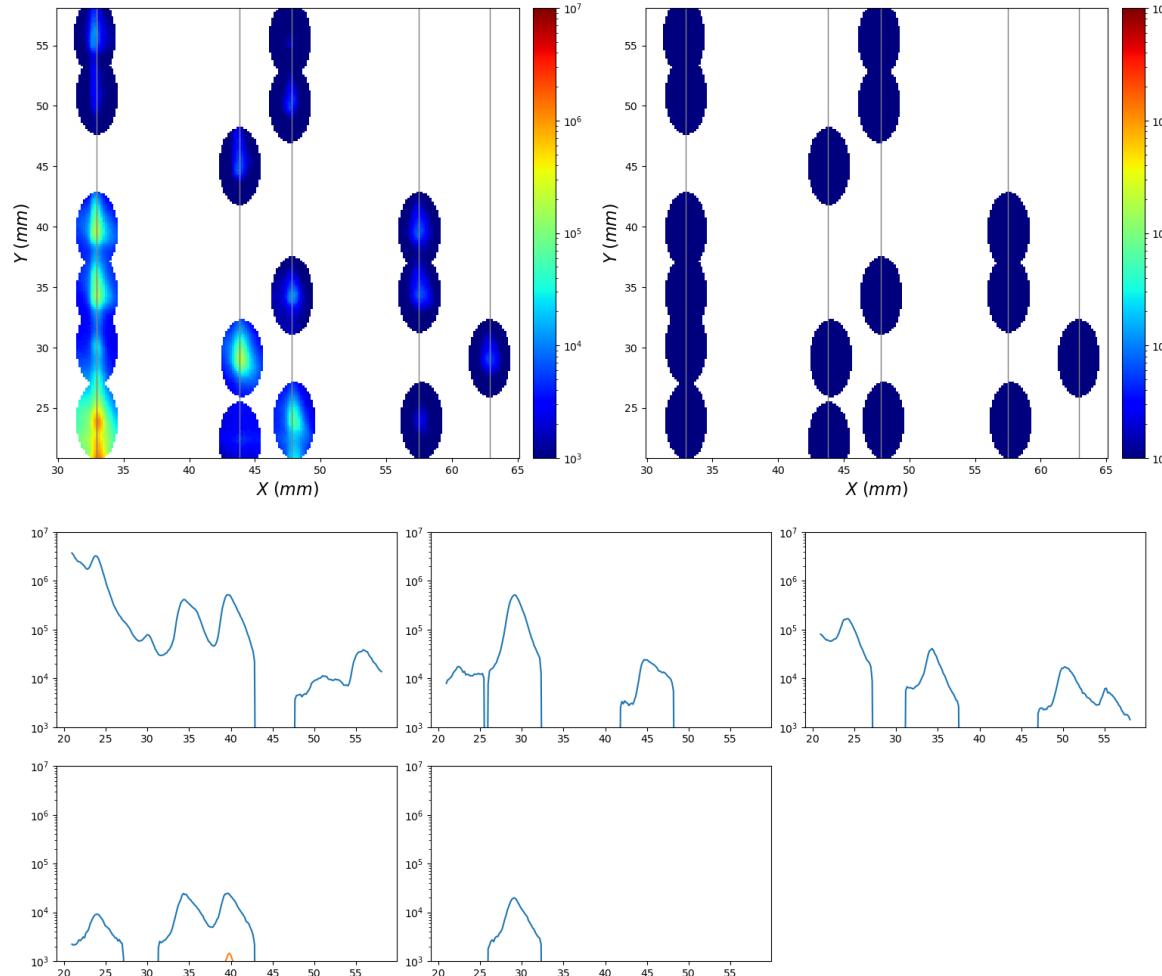
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 35.75
}
```



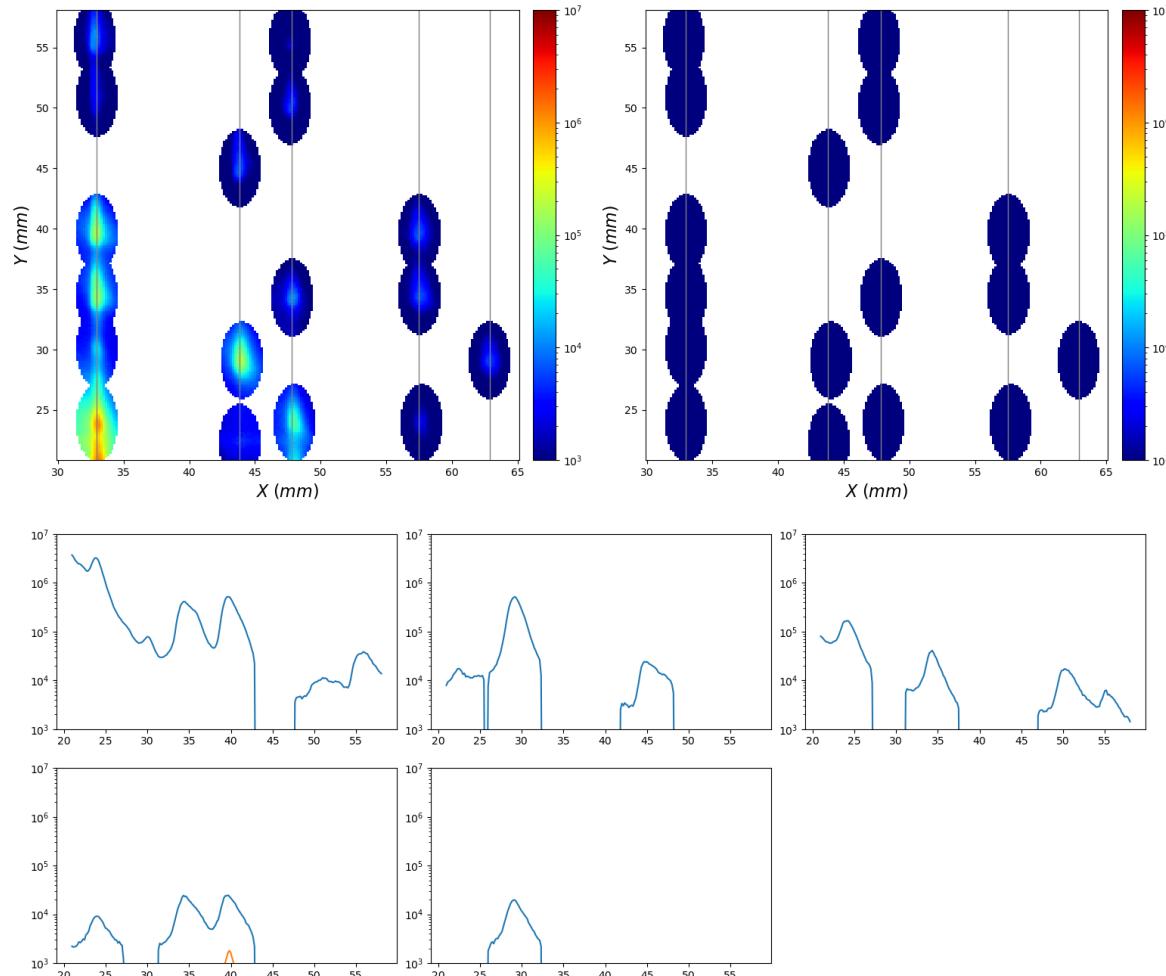
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 35.95
}
```



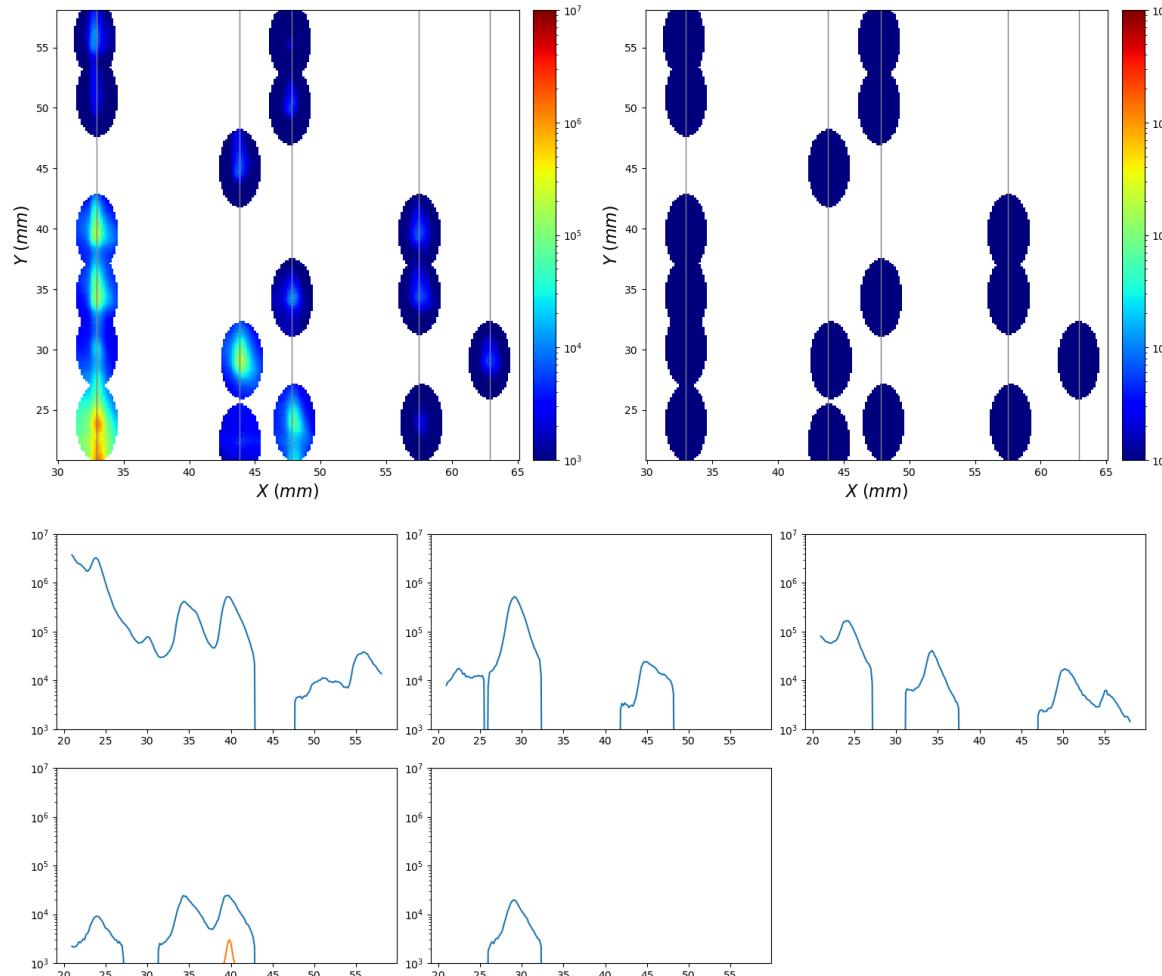
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 36.15
}
```



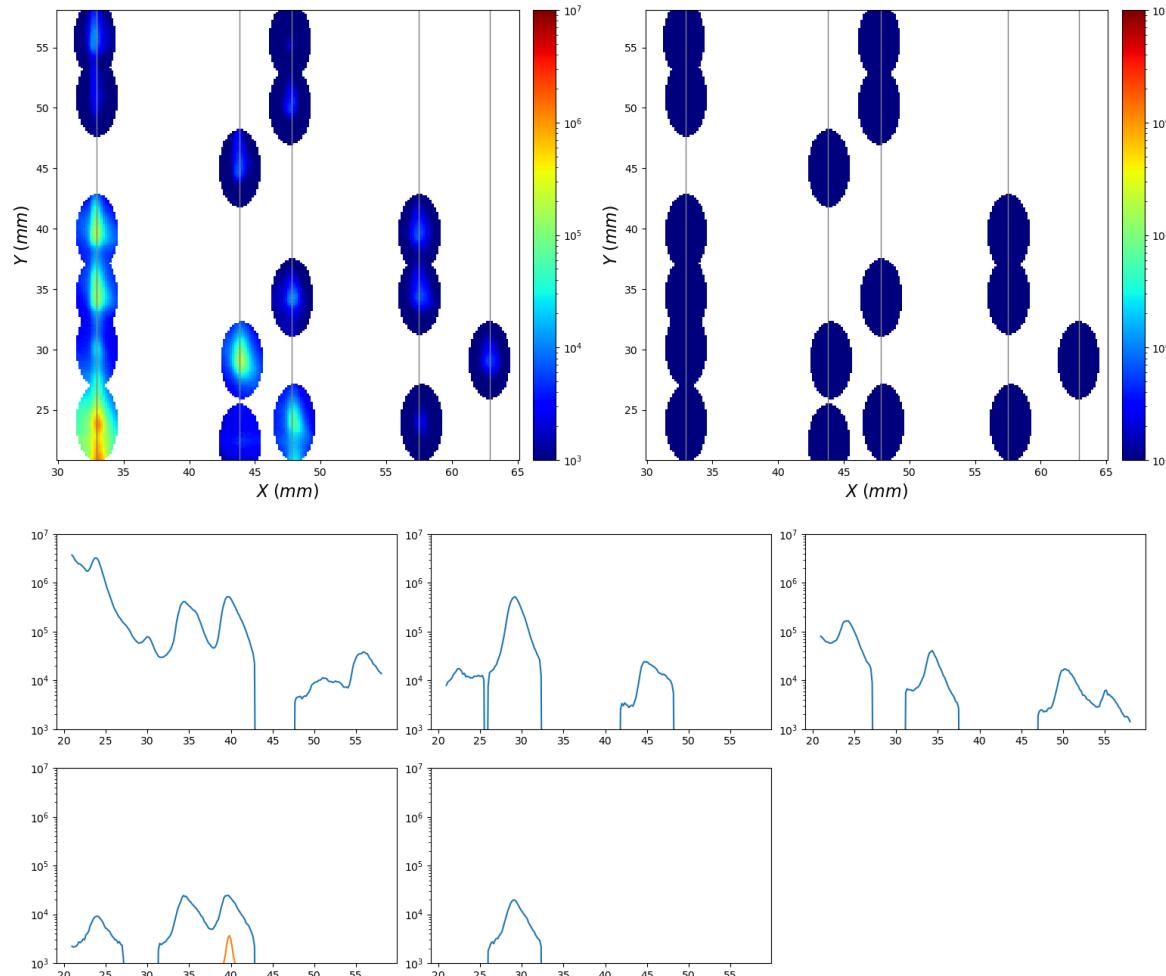
## Single meso, rotation\_z

```
{  
    "sample_builder_type": "SampleBuilderVer2",  
    "roughness": 6.0,  
    "surface_filling_ratio": 0.15,  
    "average_layer_thickness": 1000,  
    "meso_elevation": 50,  
    "meso_factory_type": "SingleMesoFactory",  
    "diffuse_builder_type": "None",  
    "meso_builder_type": "FixedCylinder",  
    "lattice_length_a": 12.5,  
    "lattice_length_c": 31.1,  
    "nparticles": 10,  
    "nanoparticle_radius": 5.02,  
    "sigma_nanoparticle_radius": 0.3,  
    "meso_height": 800,  
    "meso_radius": 2000,  
    "sigma_meso_height": 20.0,  
    "sigma_meso_radius": 20.0,  
    "sigma_lattice_length_a": 0.1,  
    "rotation_x": 0.0,  
    "rotation_z": 36.35  
}
```



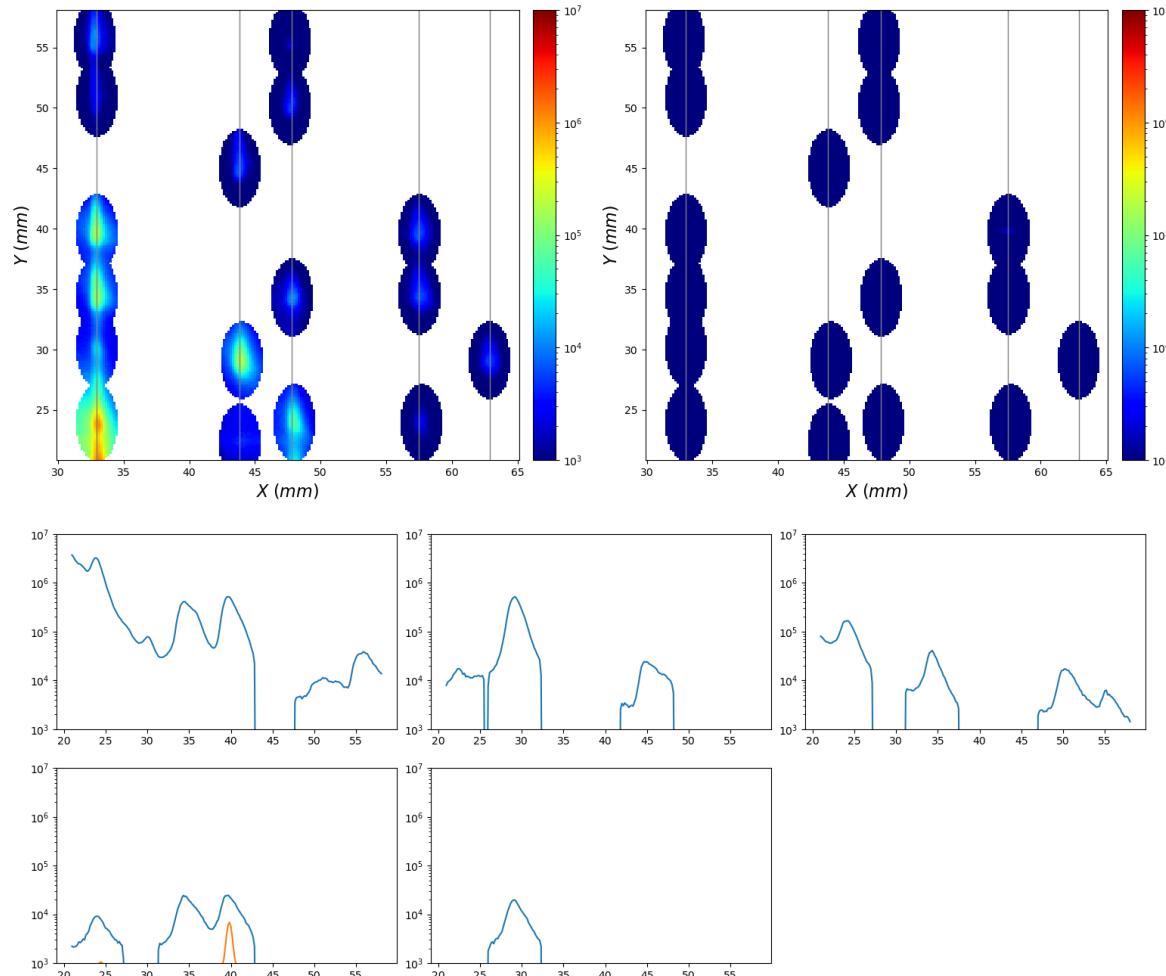
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 36.55
}
```



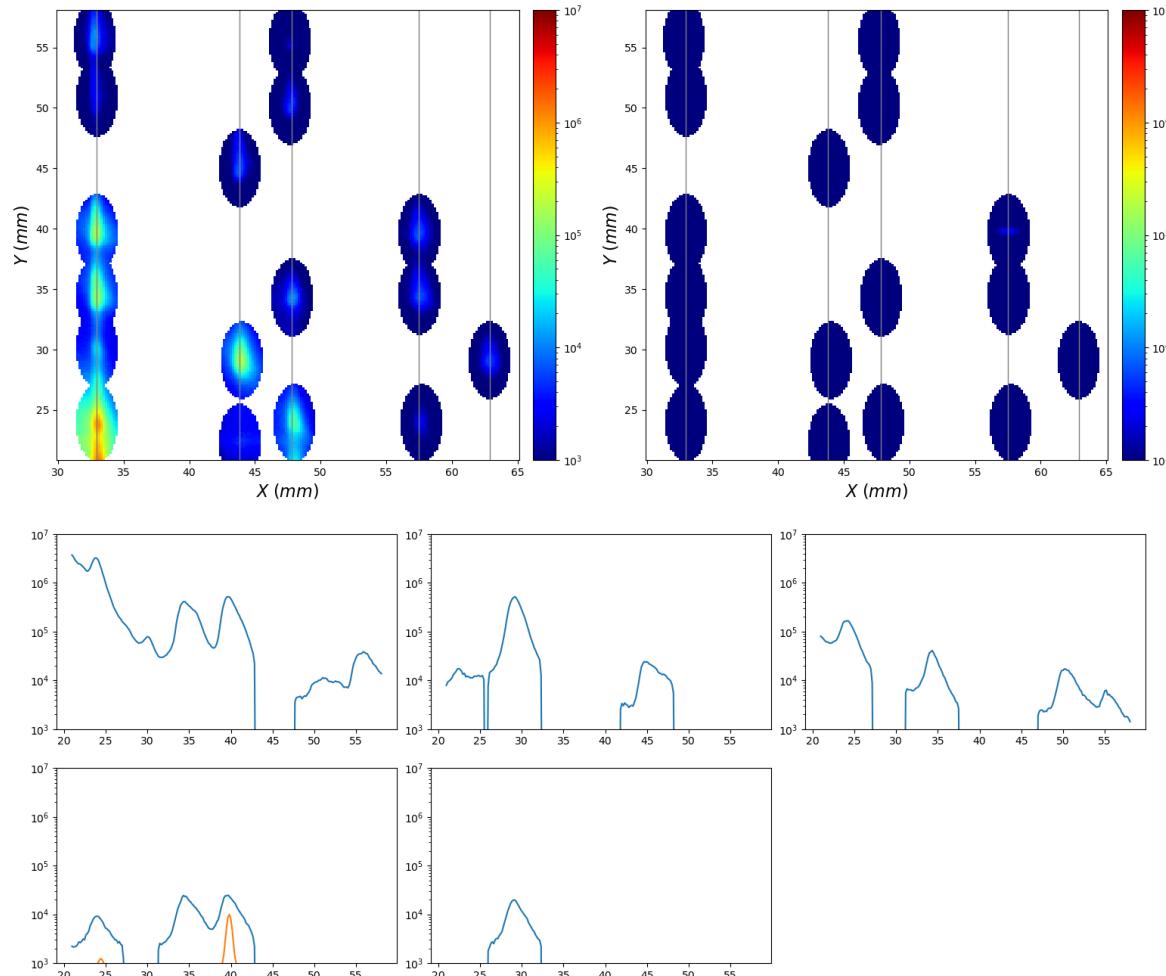
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 36.75
}
```



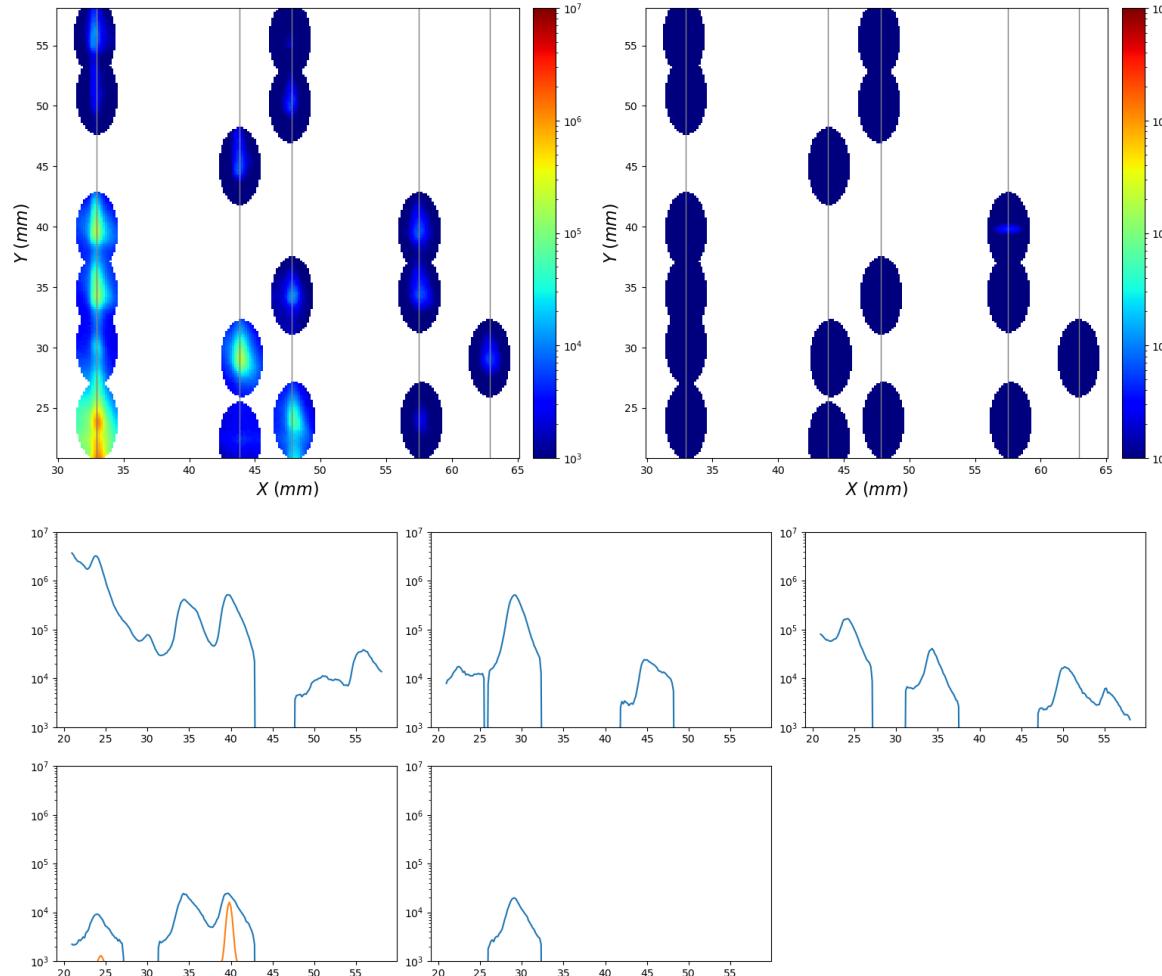
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 36.95
}
```



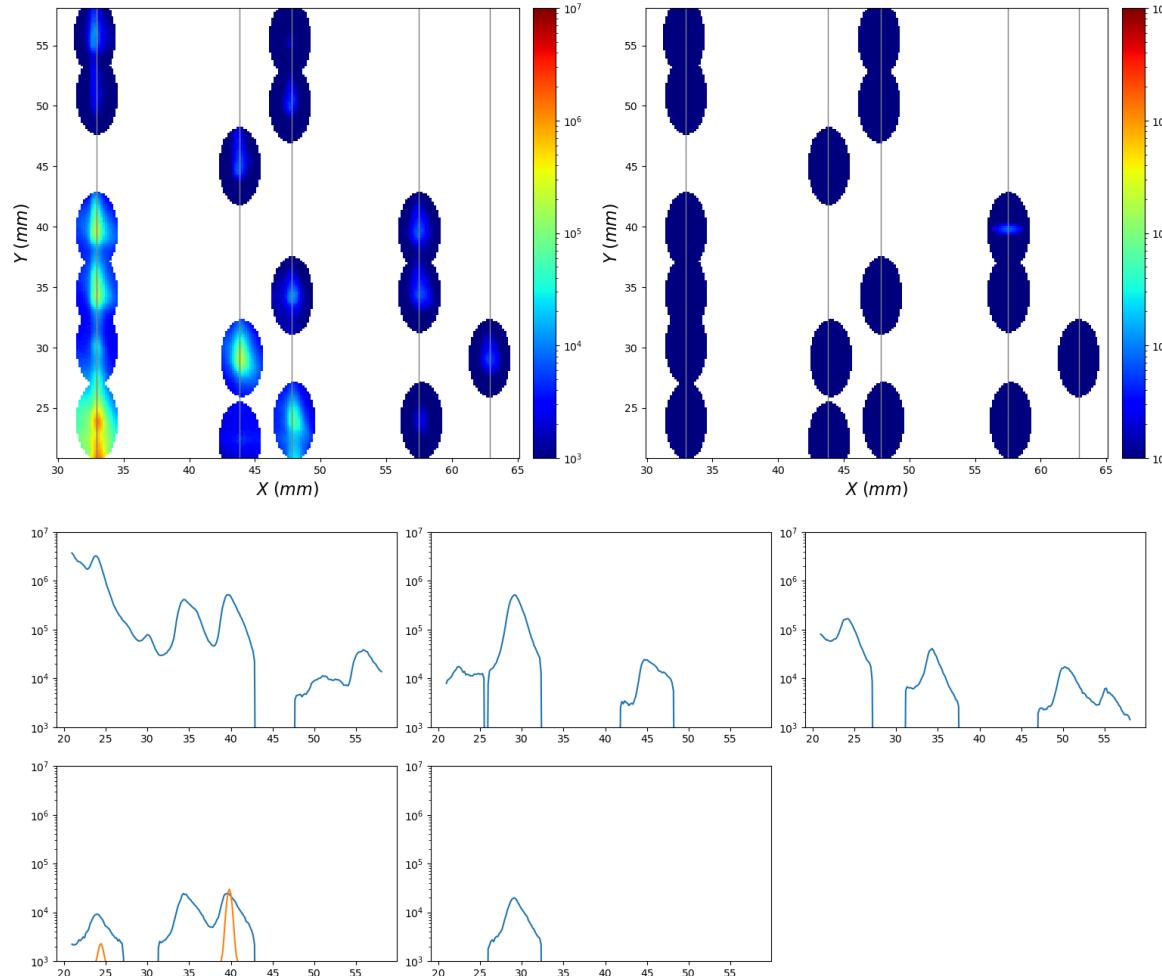
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 37.15
}
```



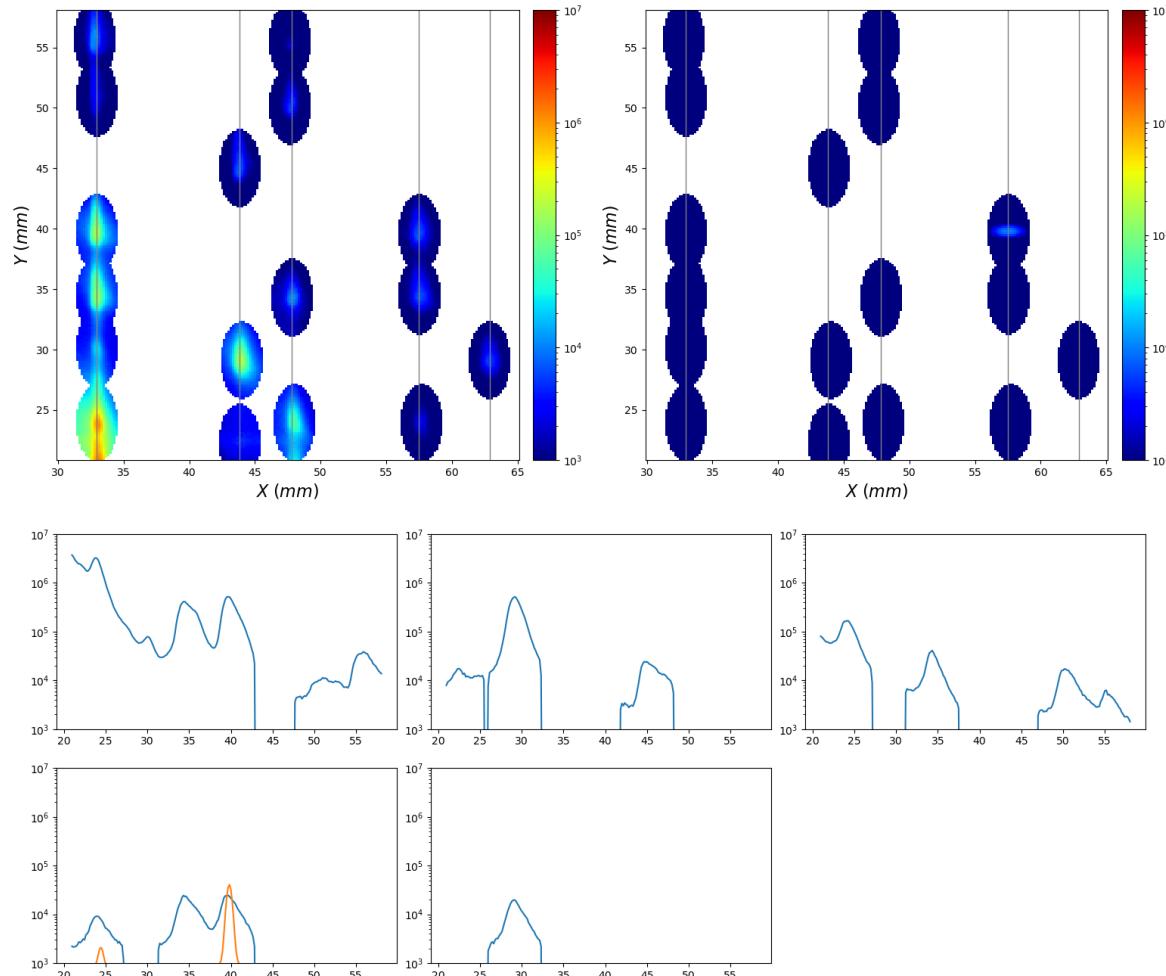
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 37.35
}
```



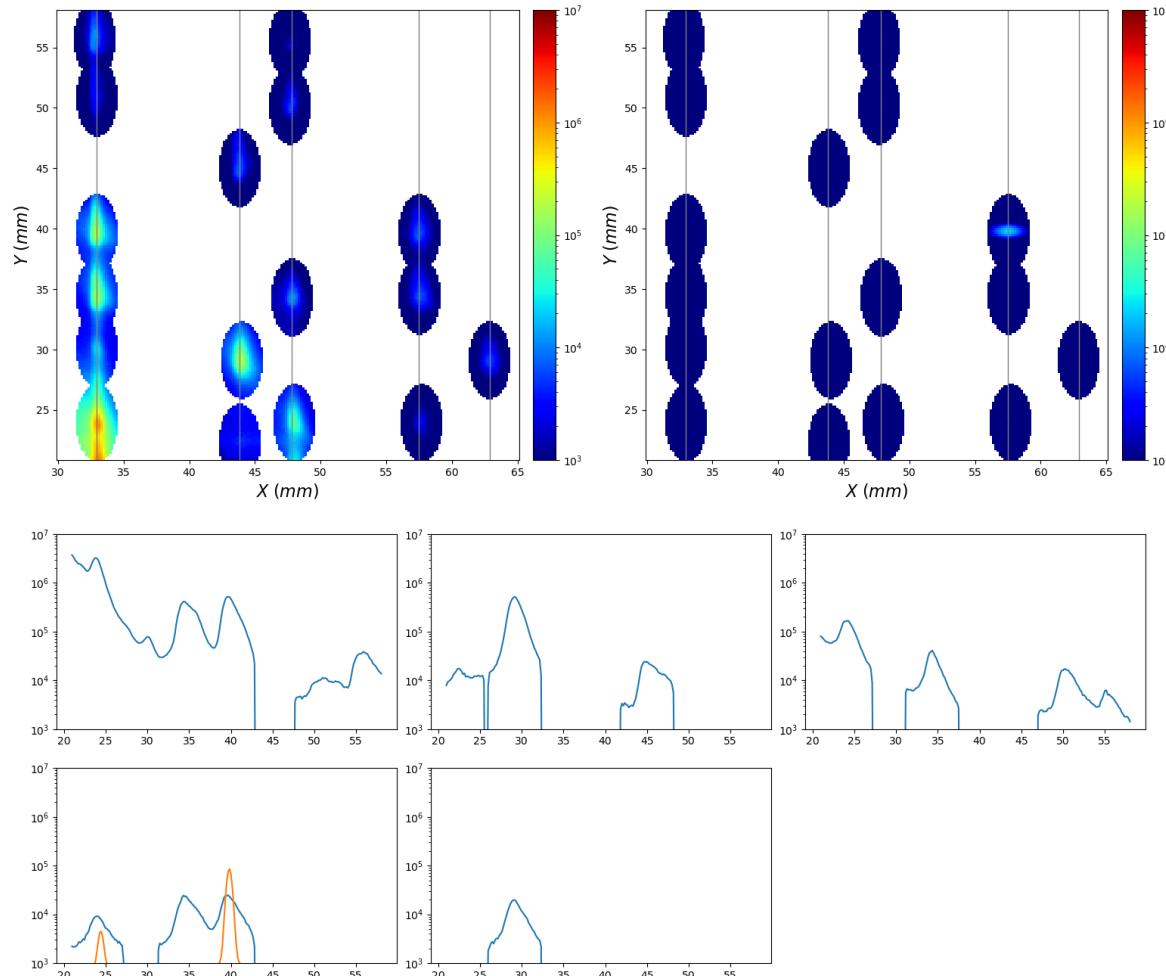
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 37.55
}
```



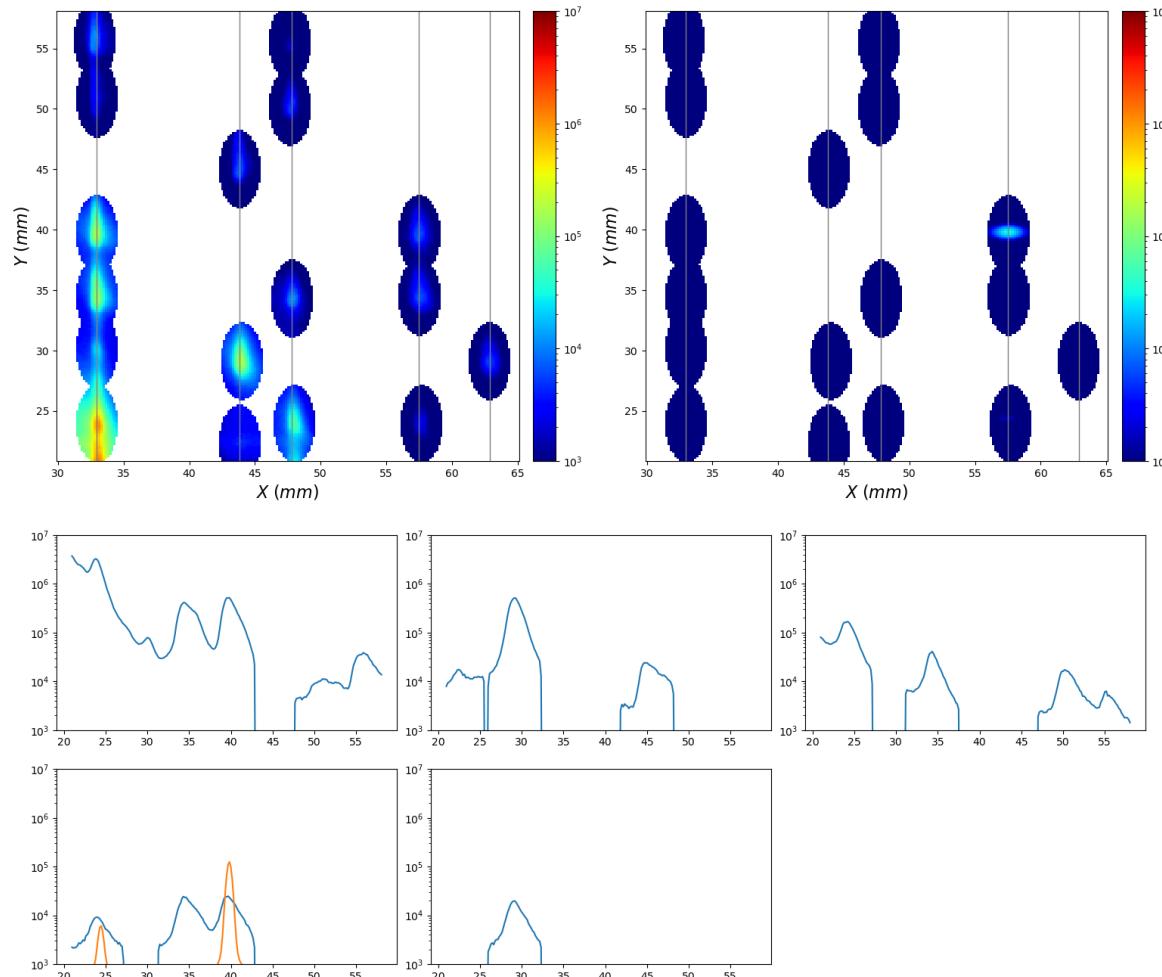
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 37.75
}
```



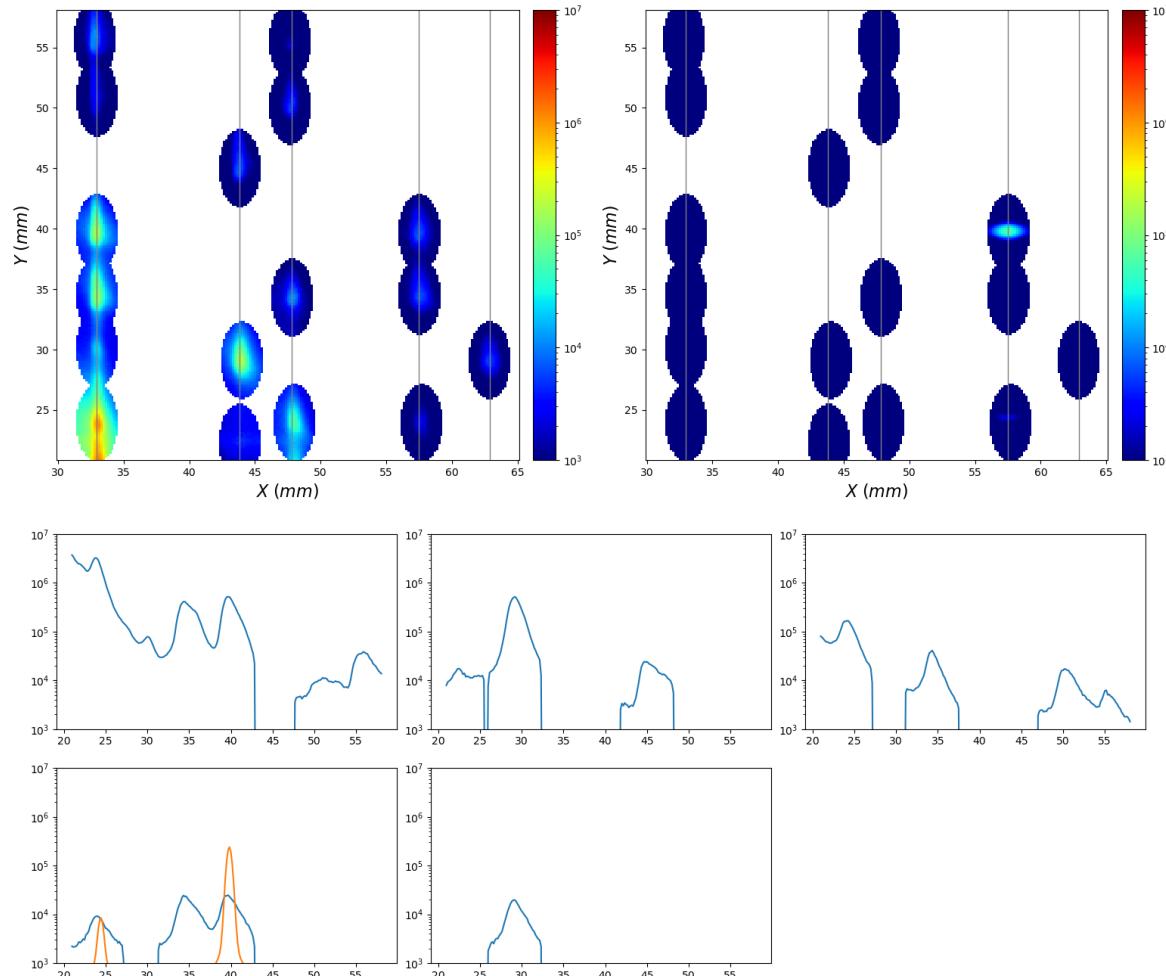
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 37.95
}
```



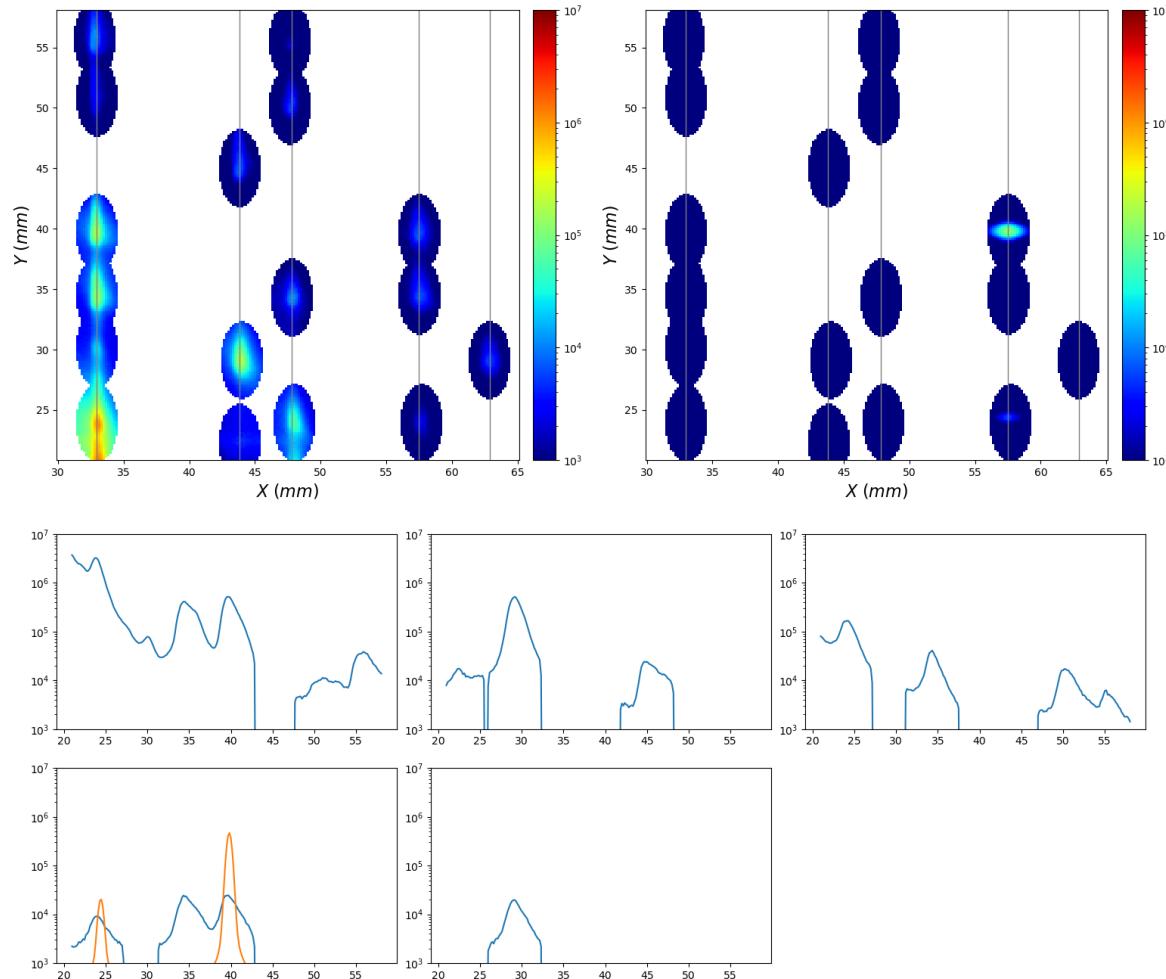
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 38.15
}
```



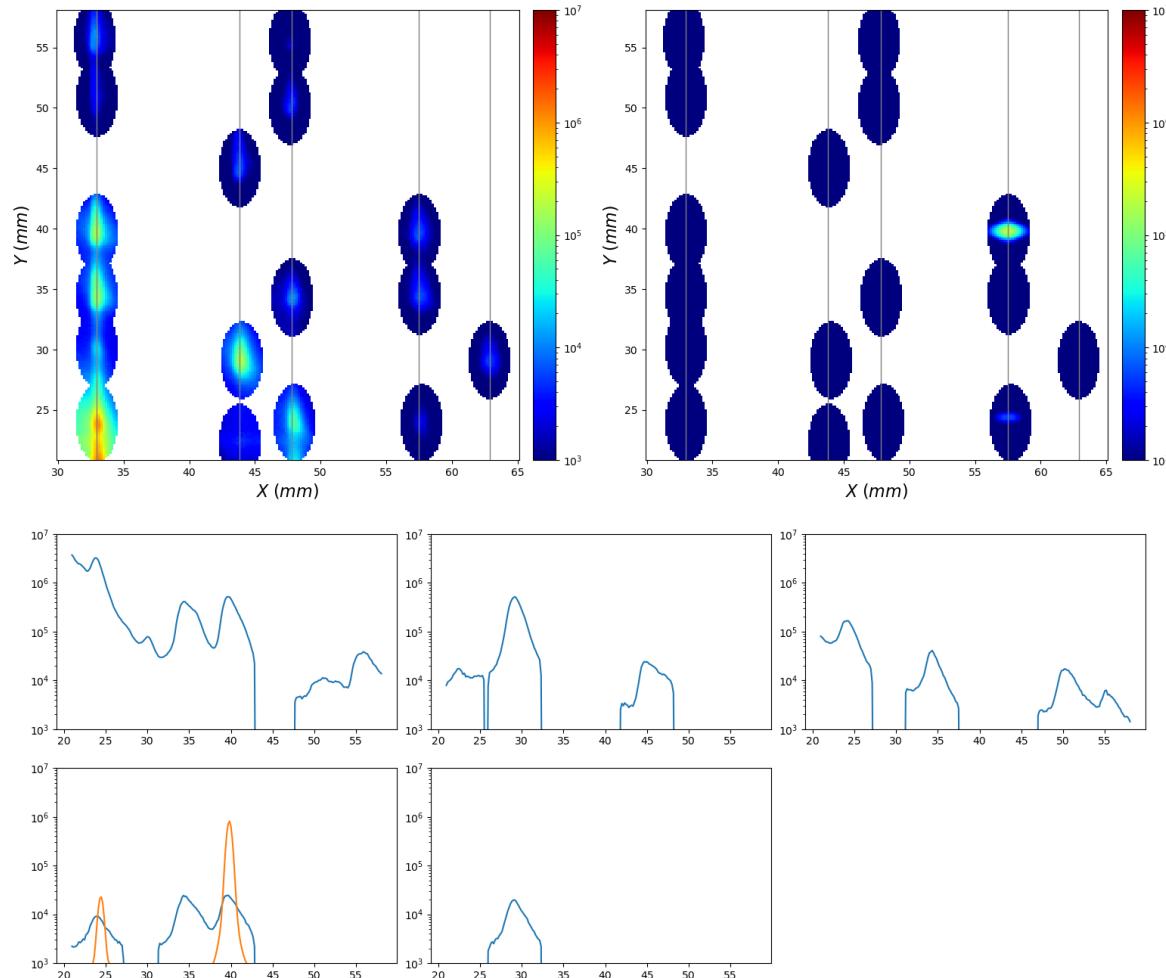
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 38.35
}
```



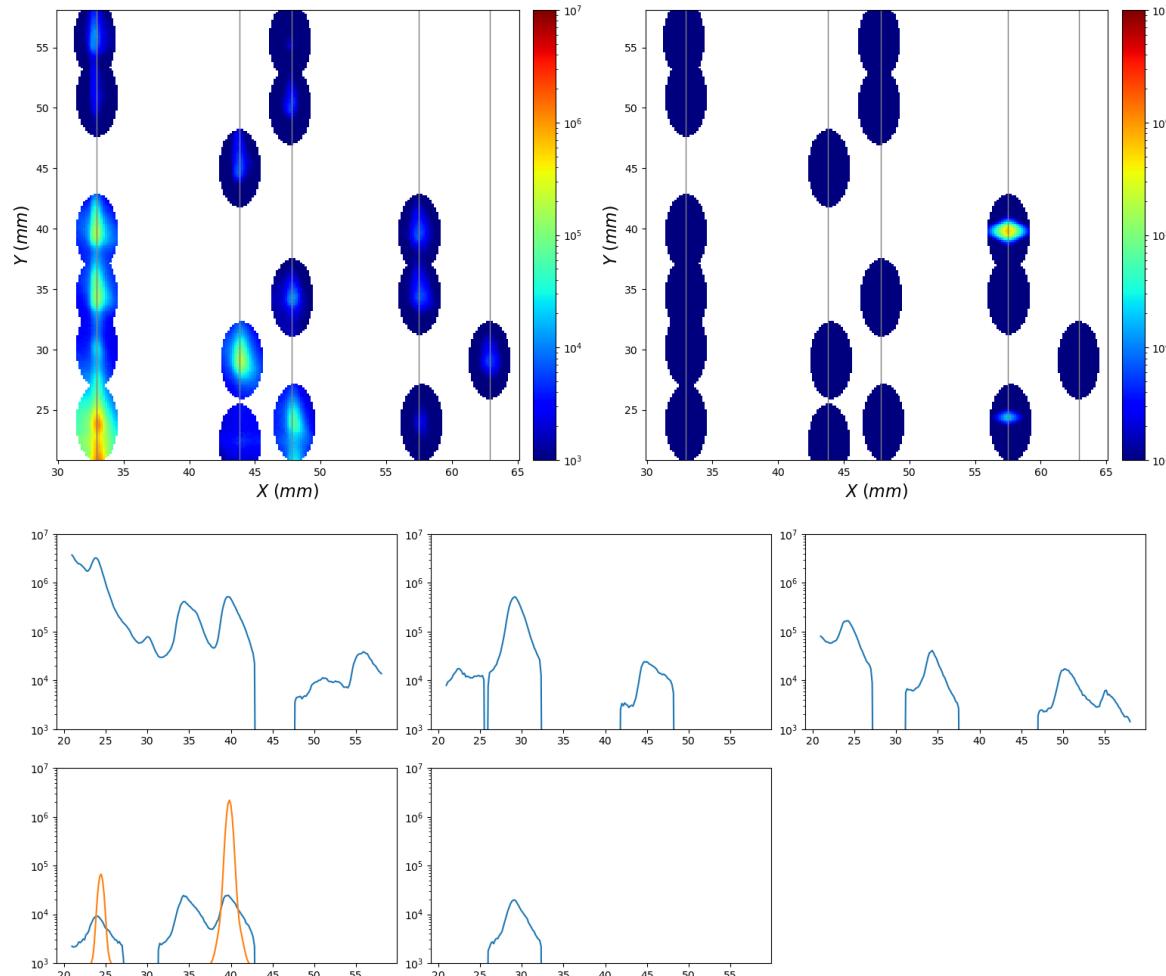
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 38.55
}
```



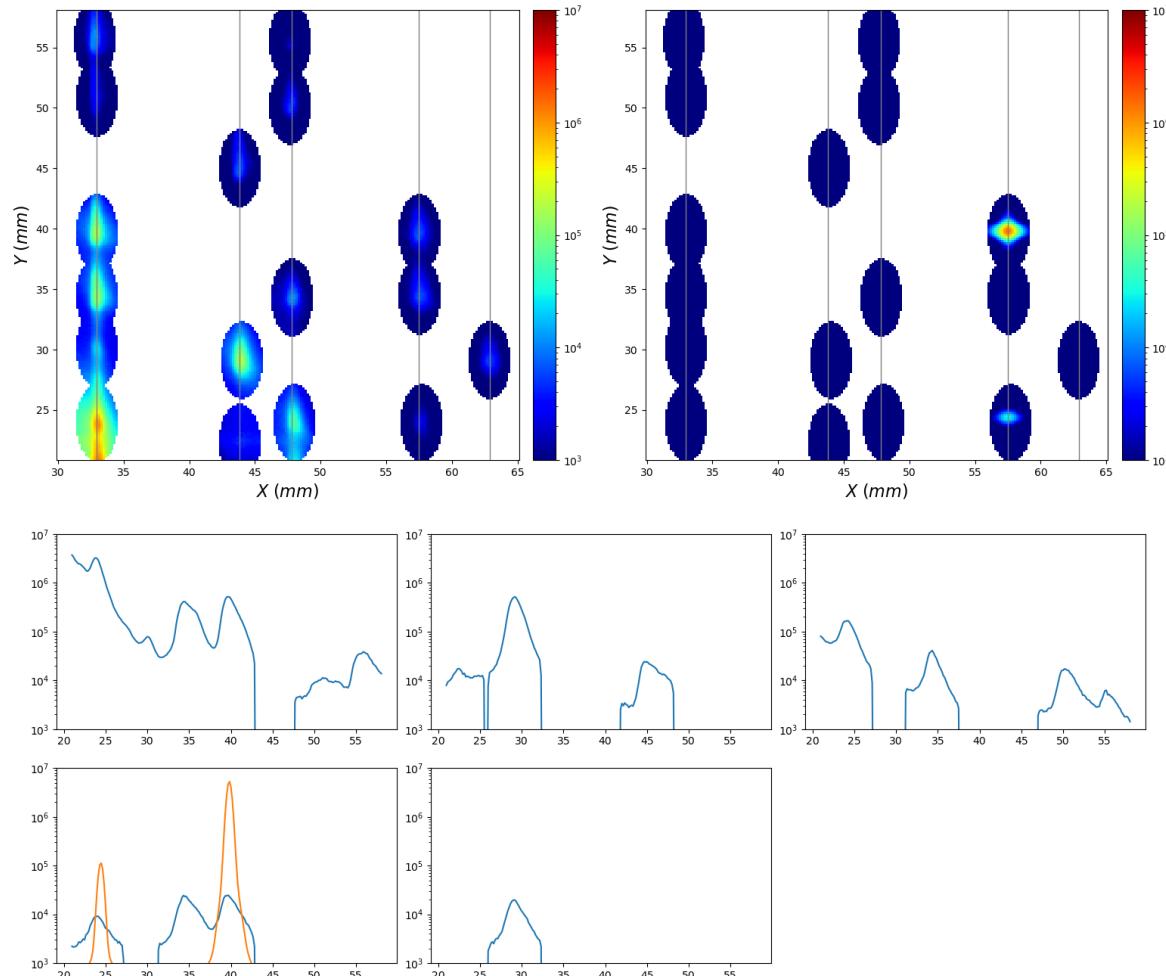
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 38.75
}
```



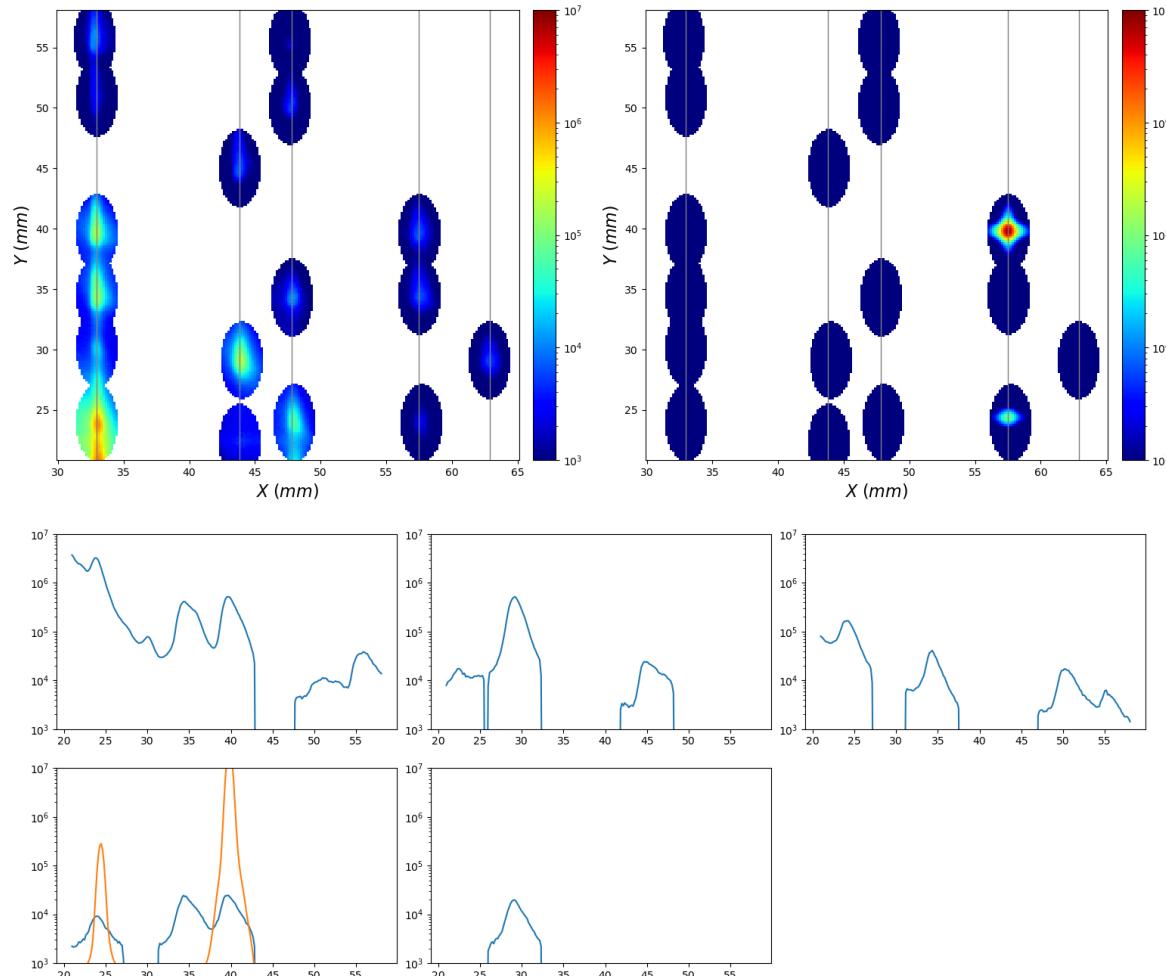
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 38.95
}
```



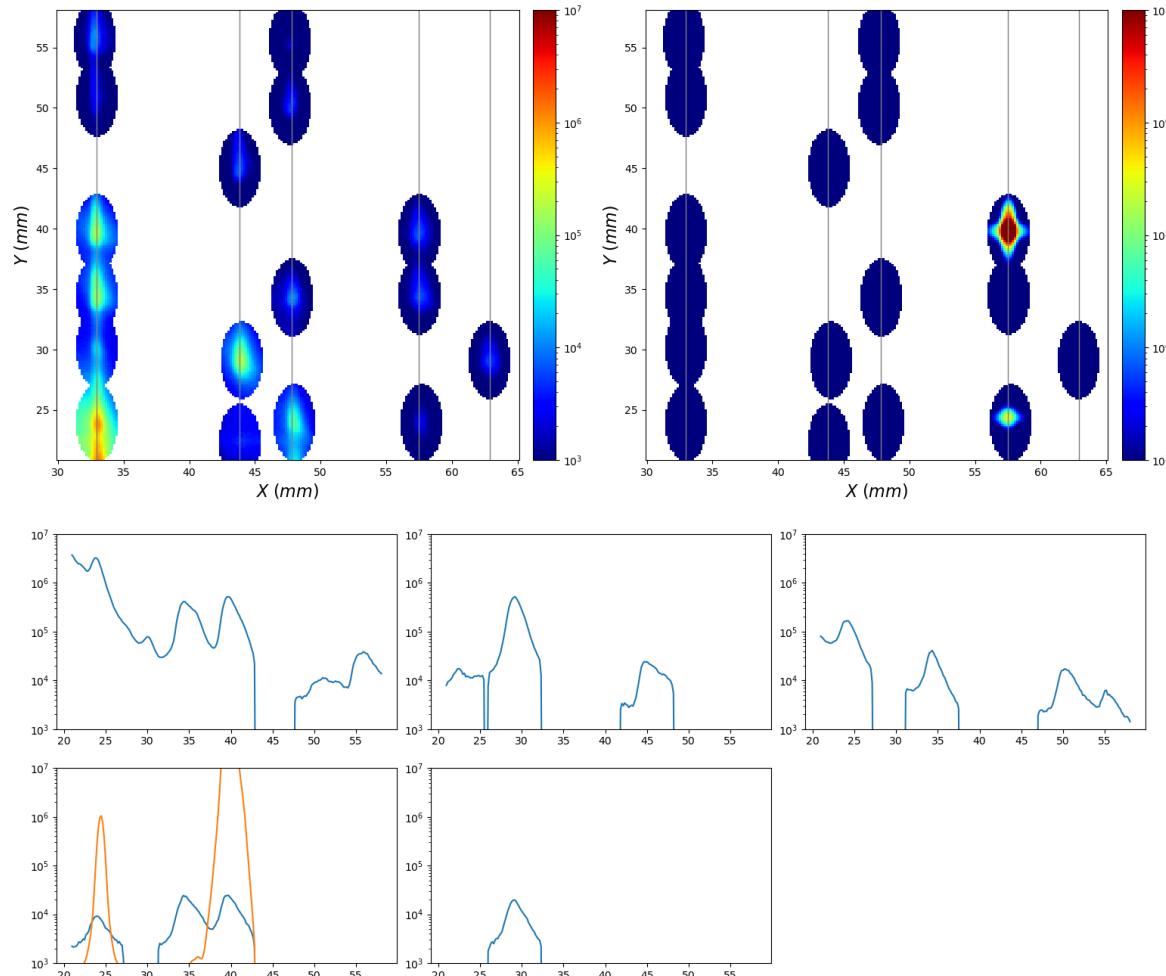
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 39.15
}
```



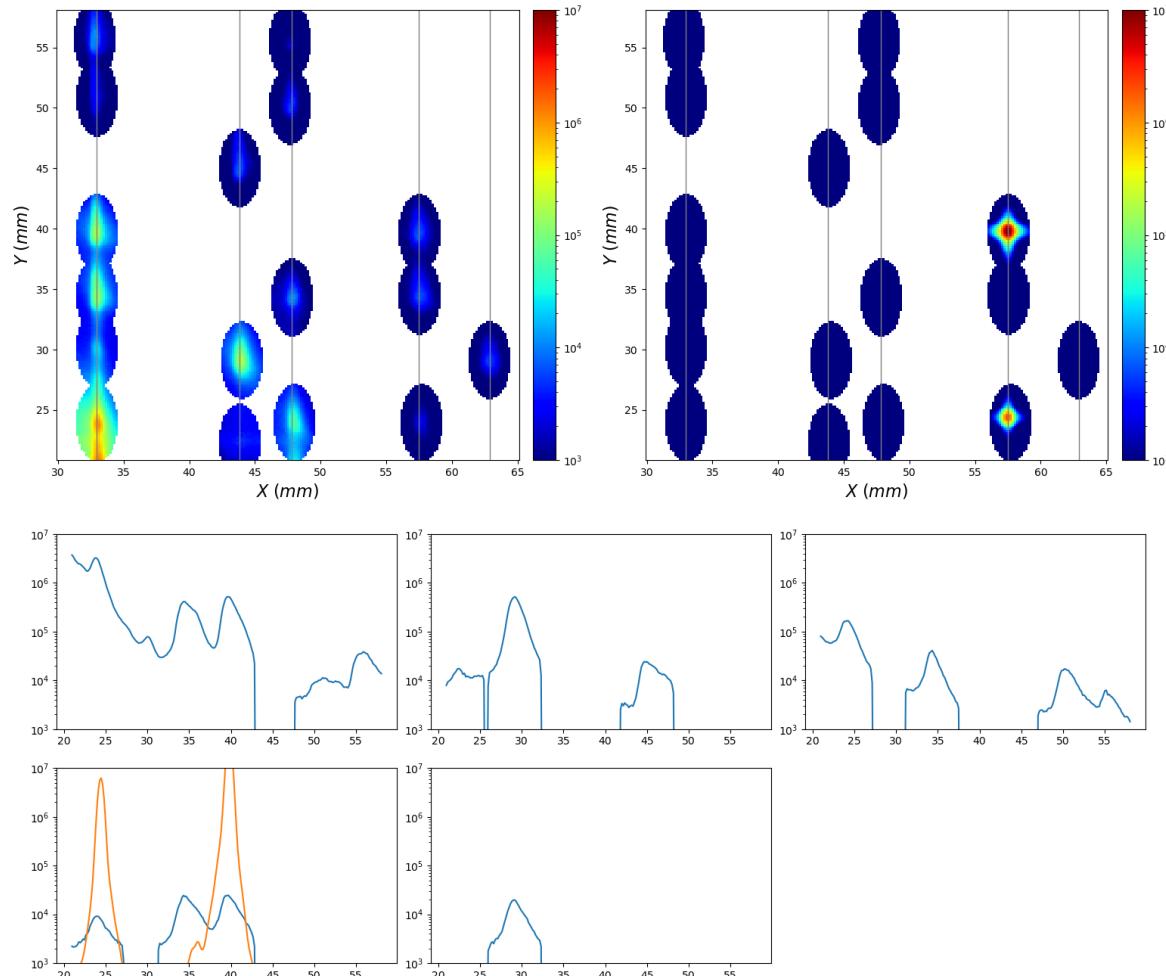
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 39.35
}
```



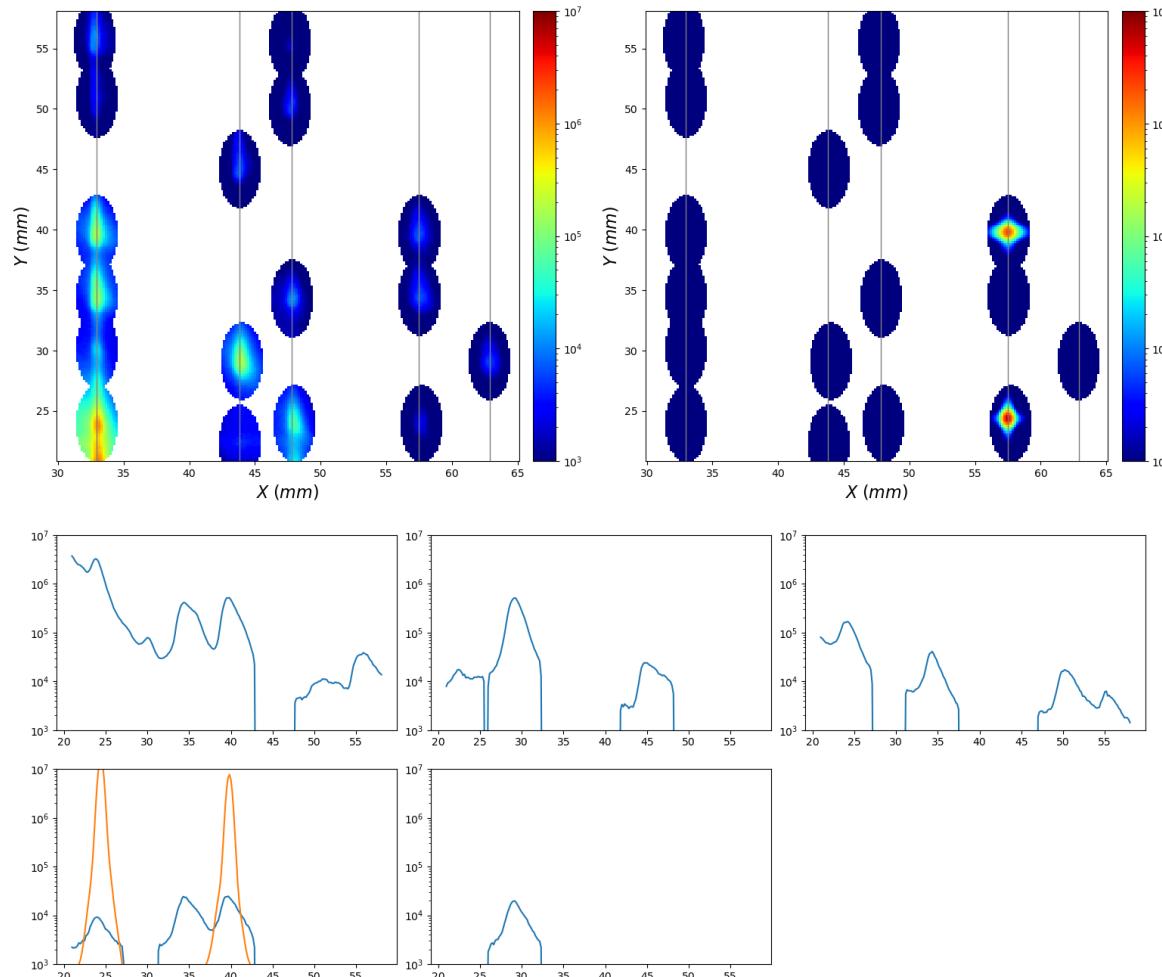
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 39.55
}
```



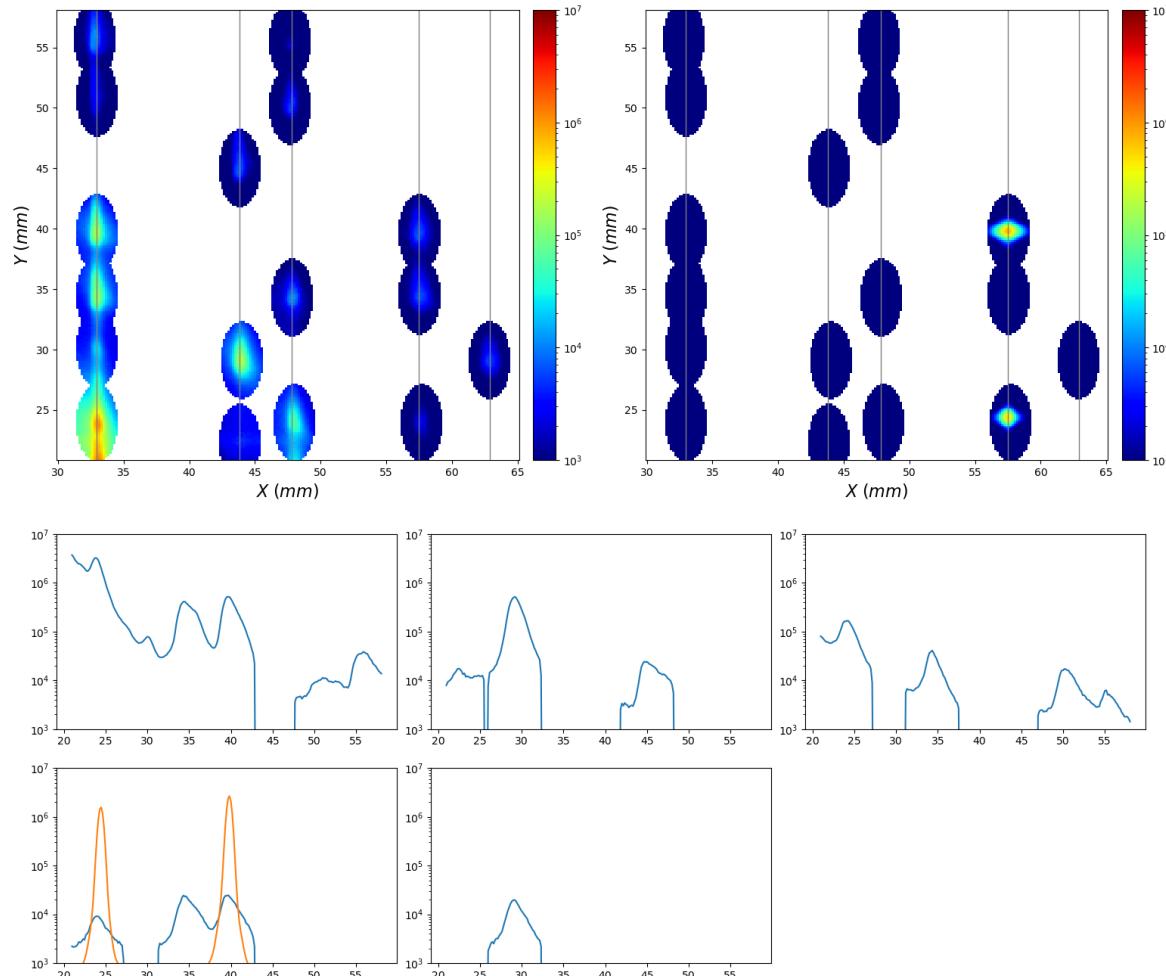
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 39.75
}
```



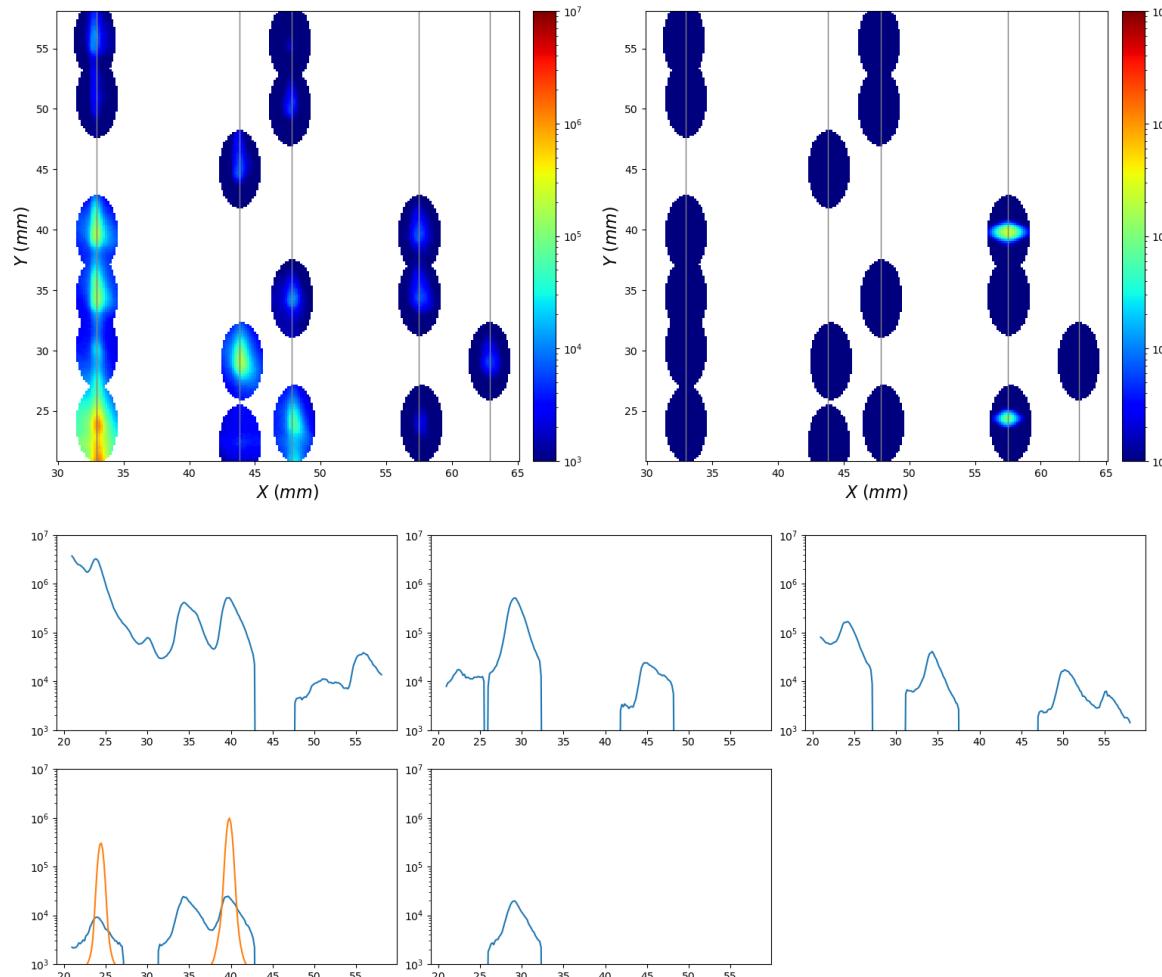
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 39.95
}
```



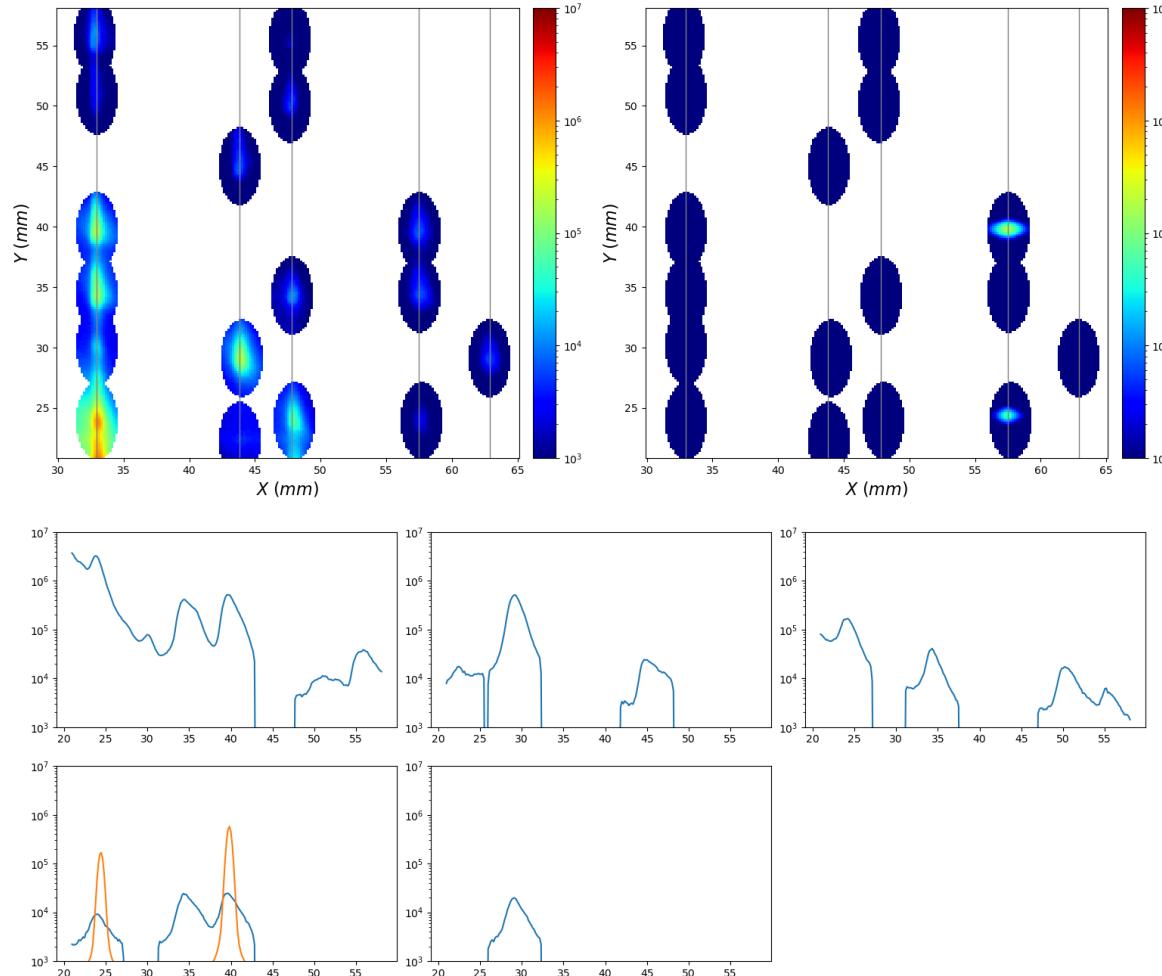
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 40.15
}
```



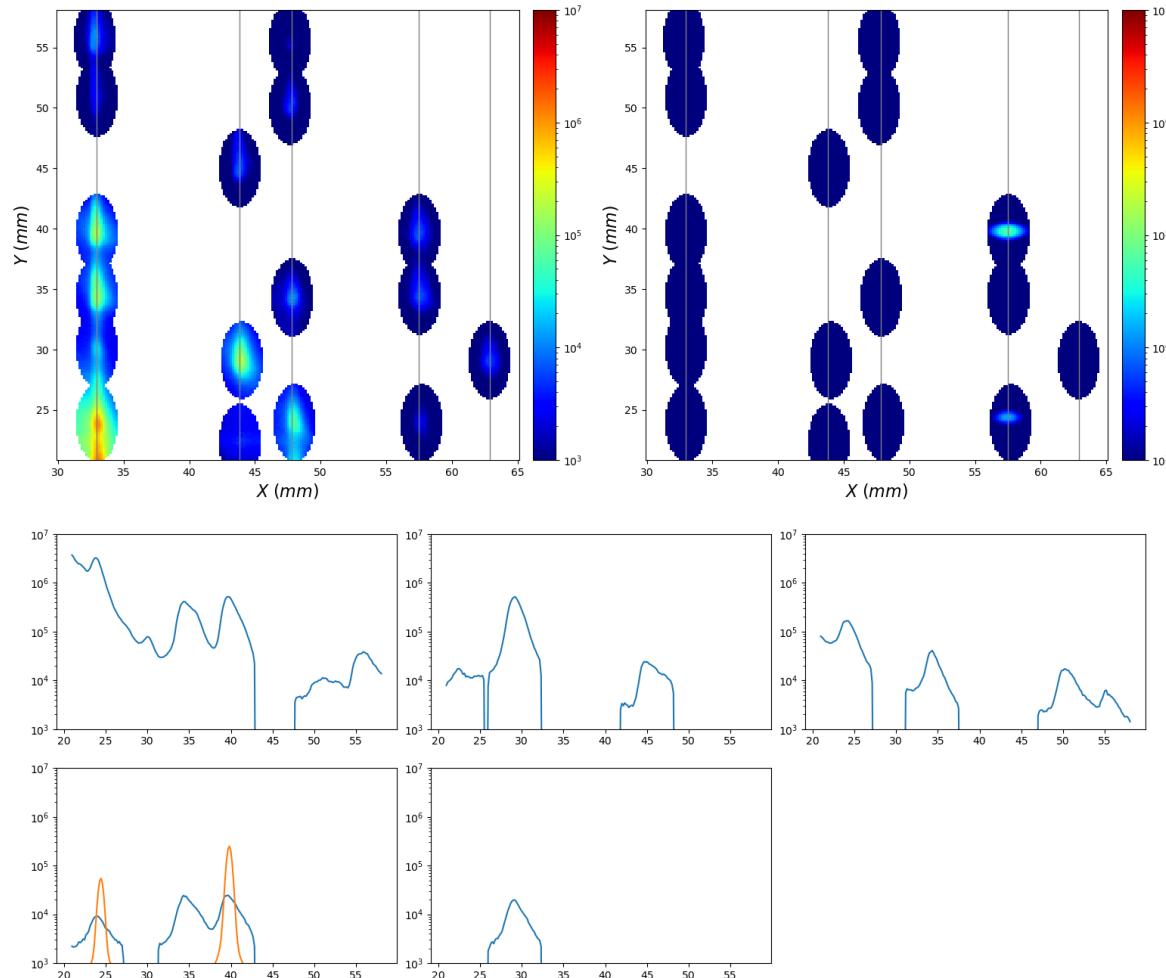
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 40.35
}
```



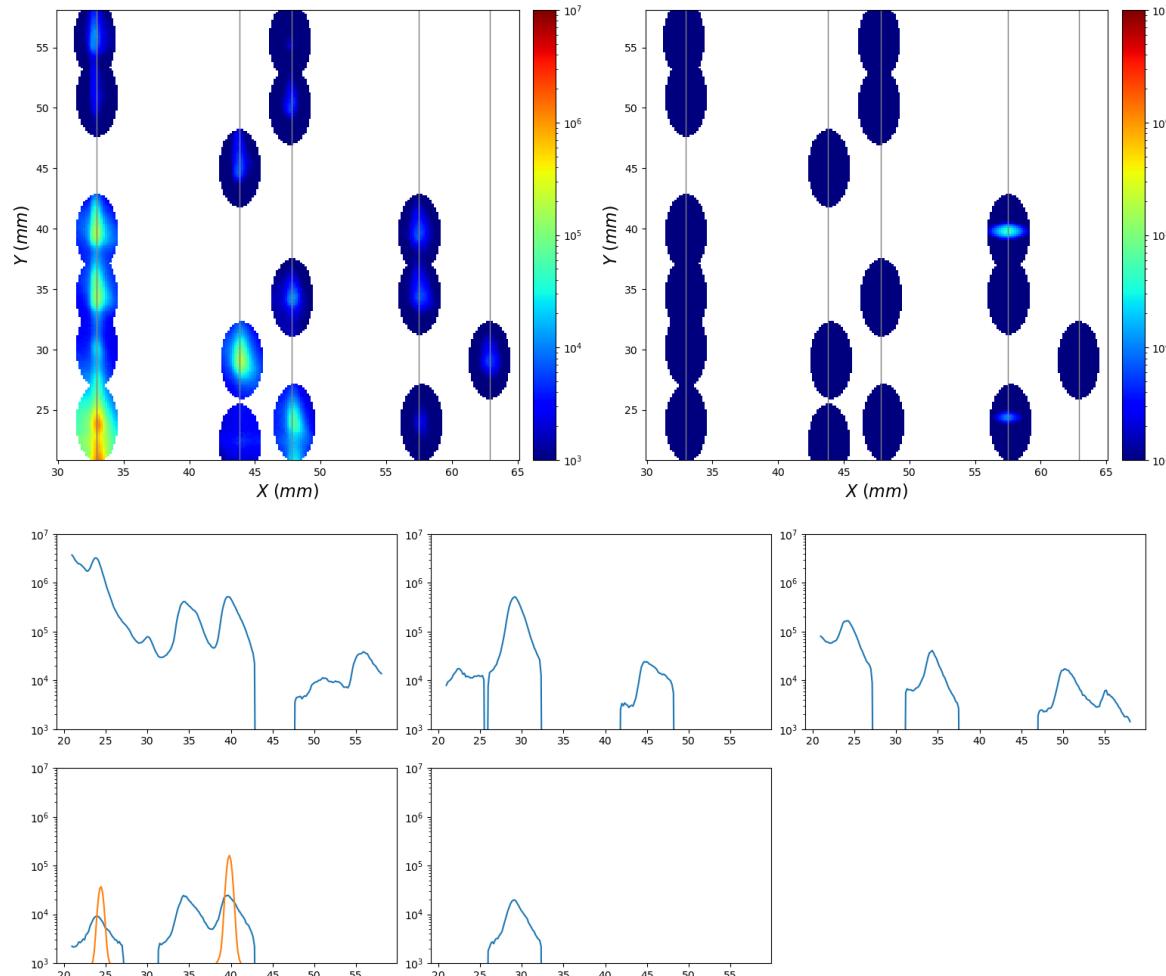
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 40.55
}
```



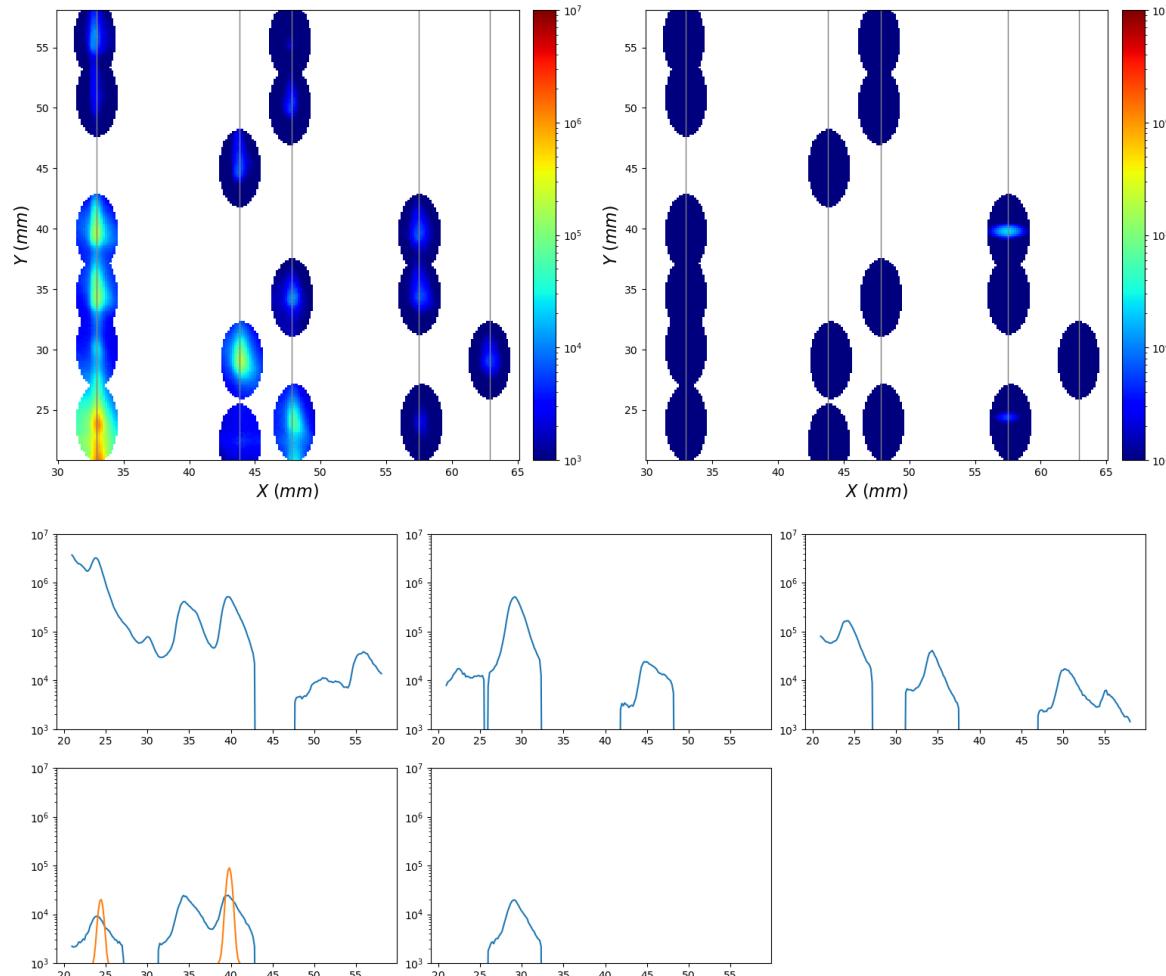
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 40.75
}
```



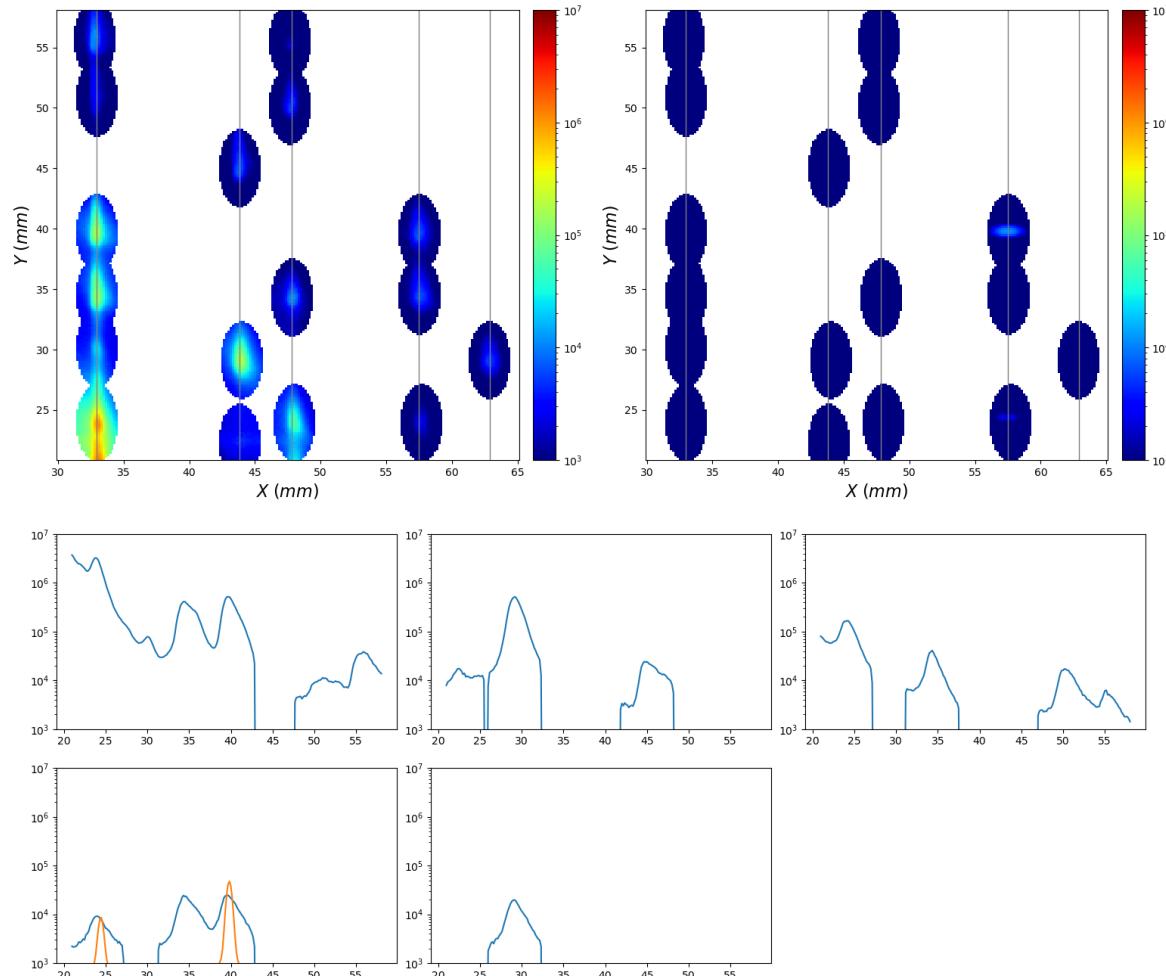
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 40.95
}
```



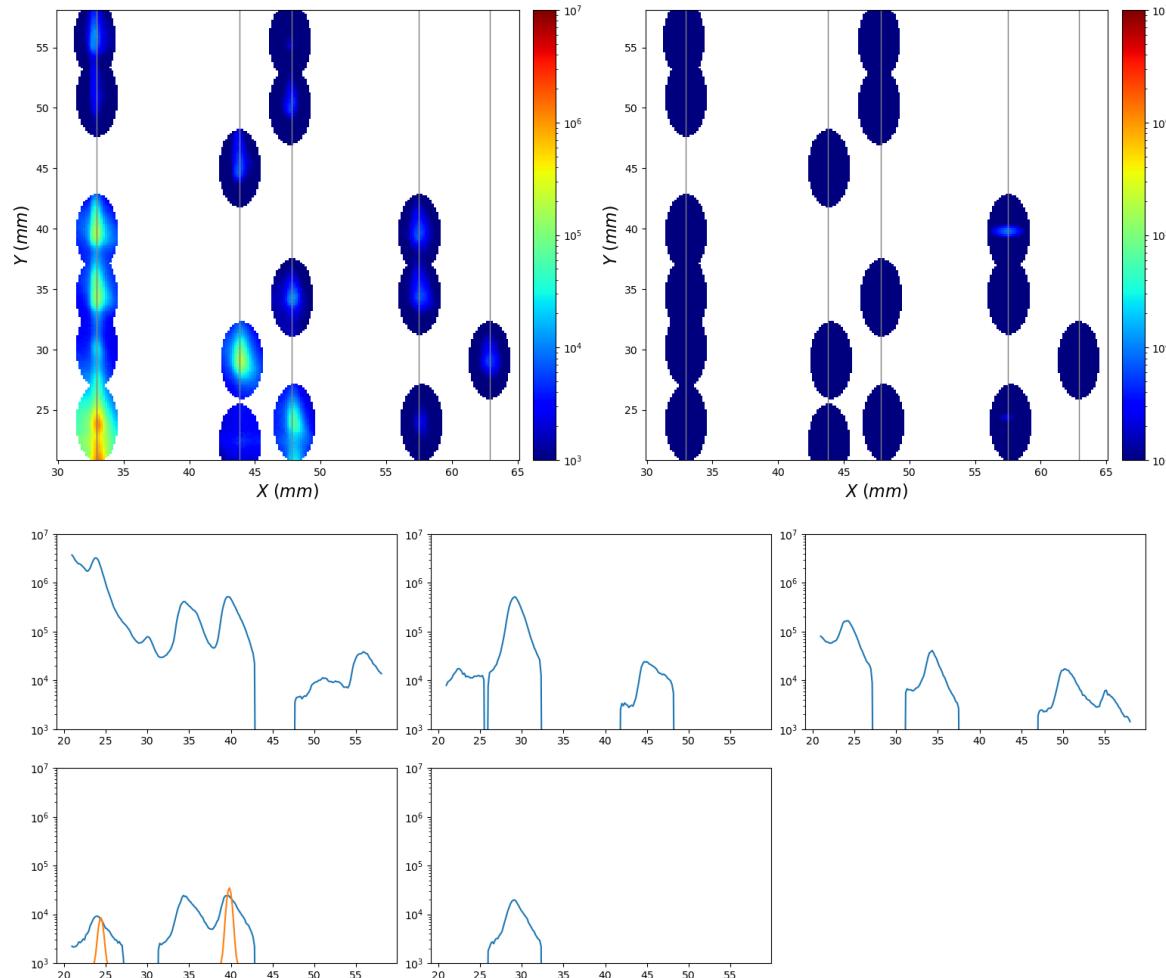
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 41.15
}
```



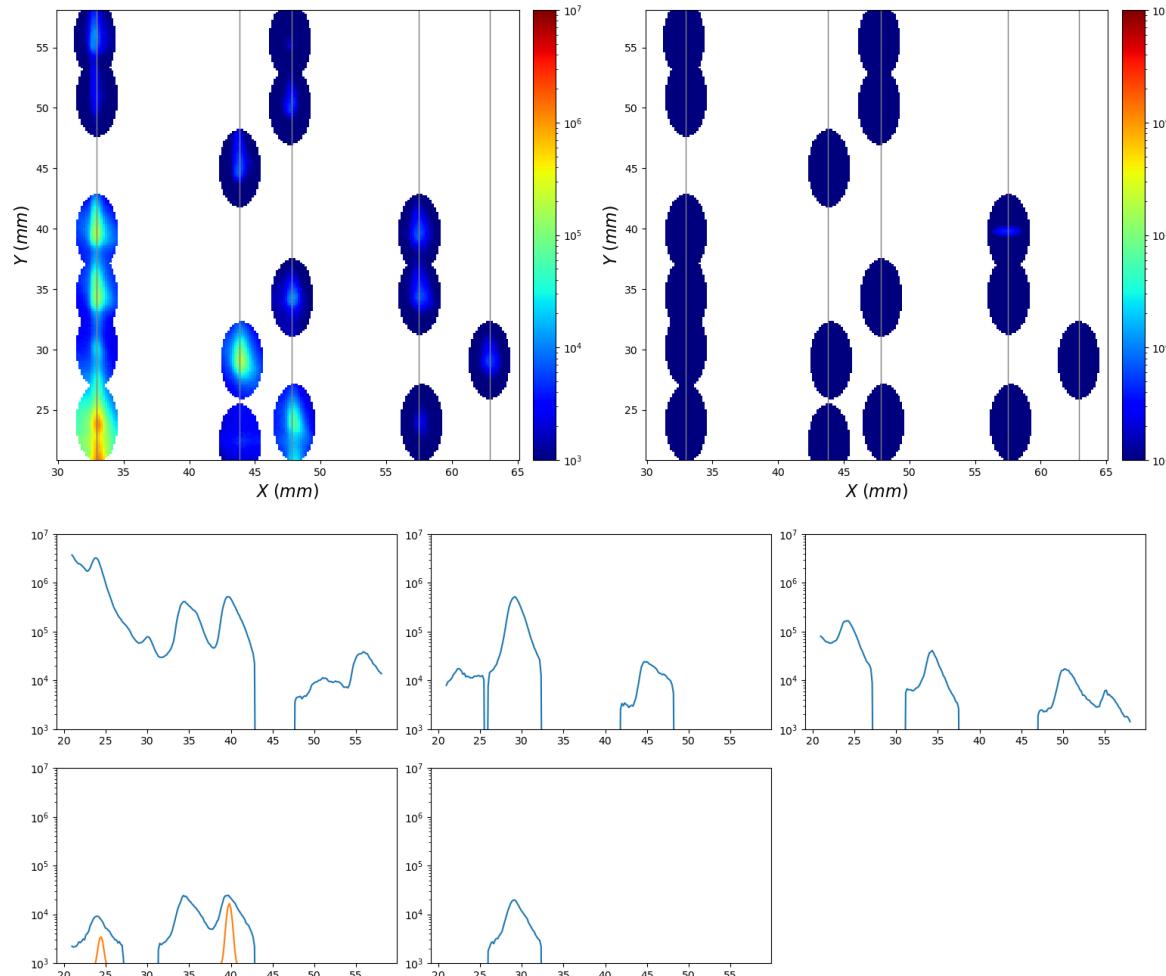
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 41.35
}
```



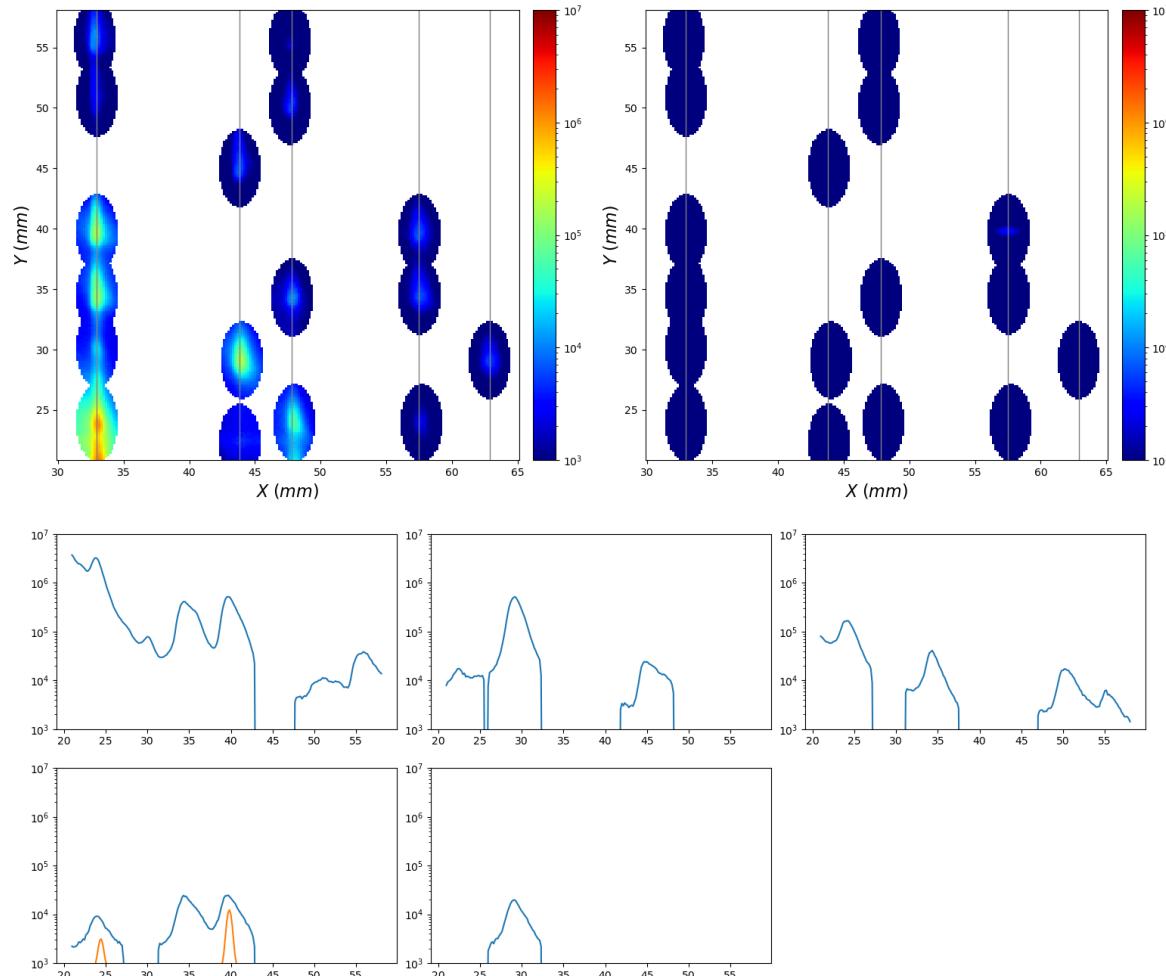
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 41.55
}
```



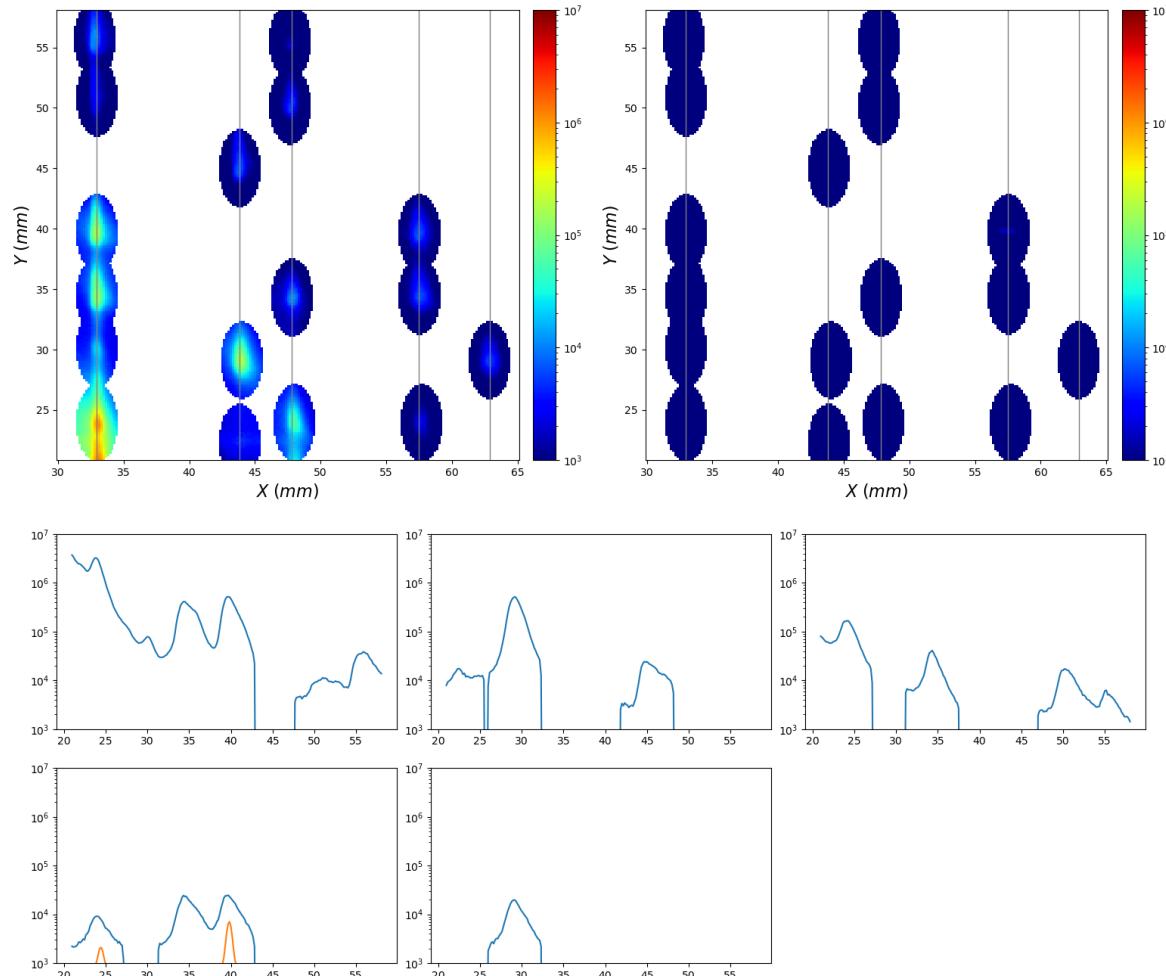
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 41.75
}
```



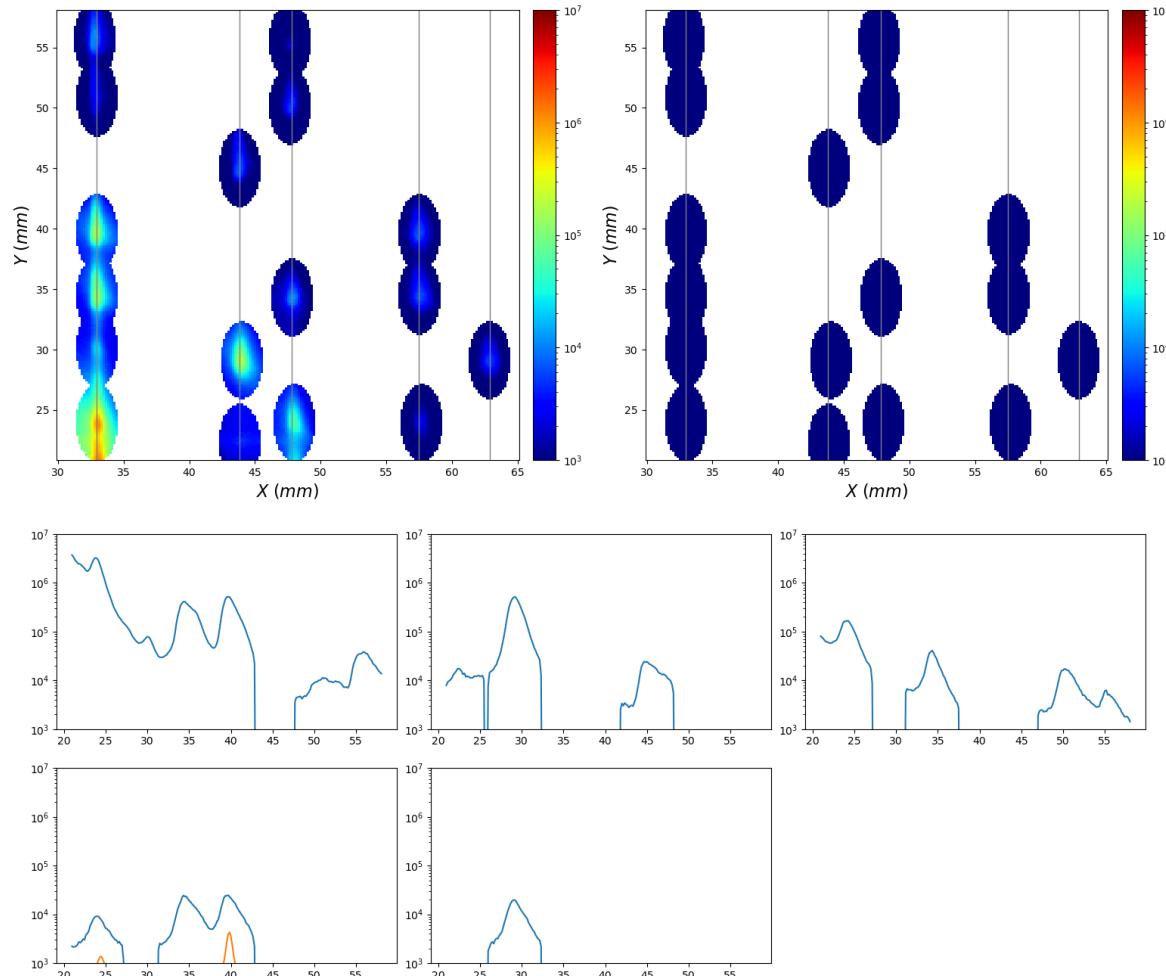
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 41.95
}
```



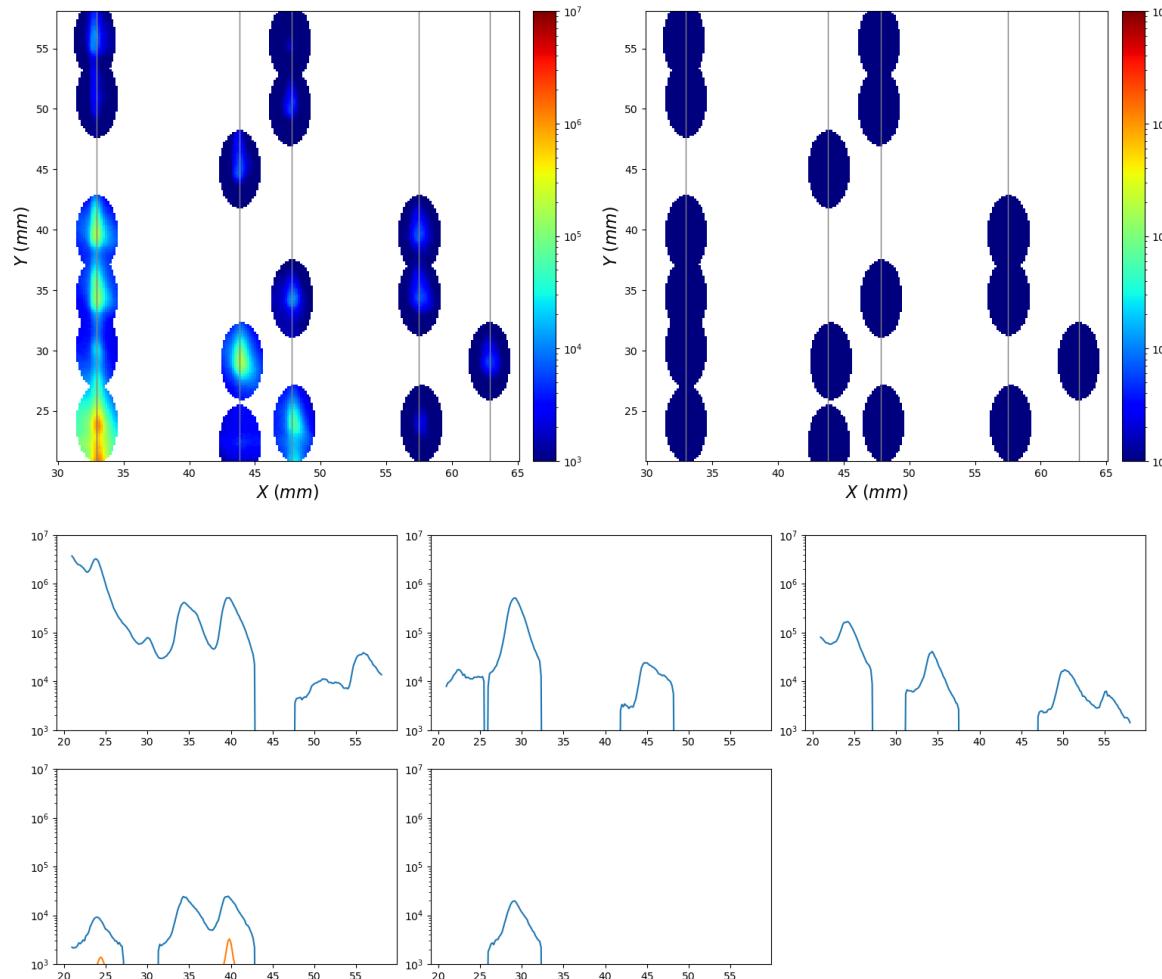
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 42.15
}
```



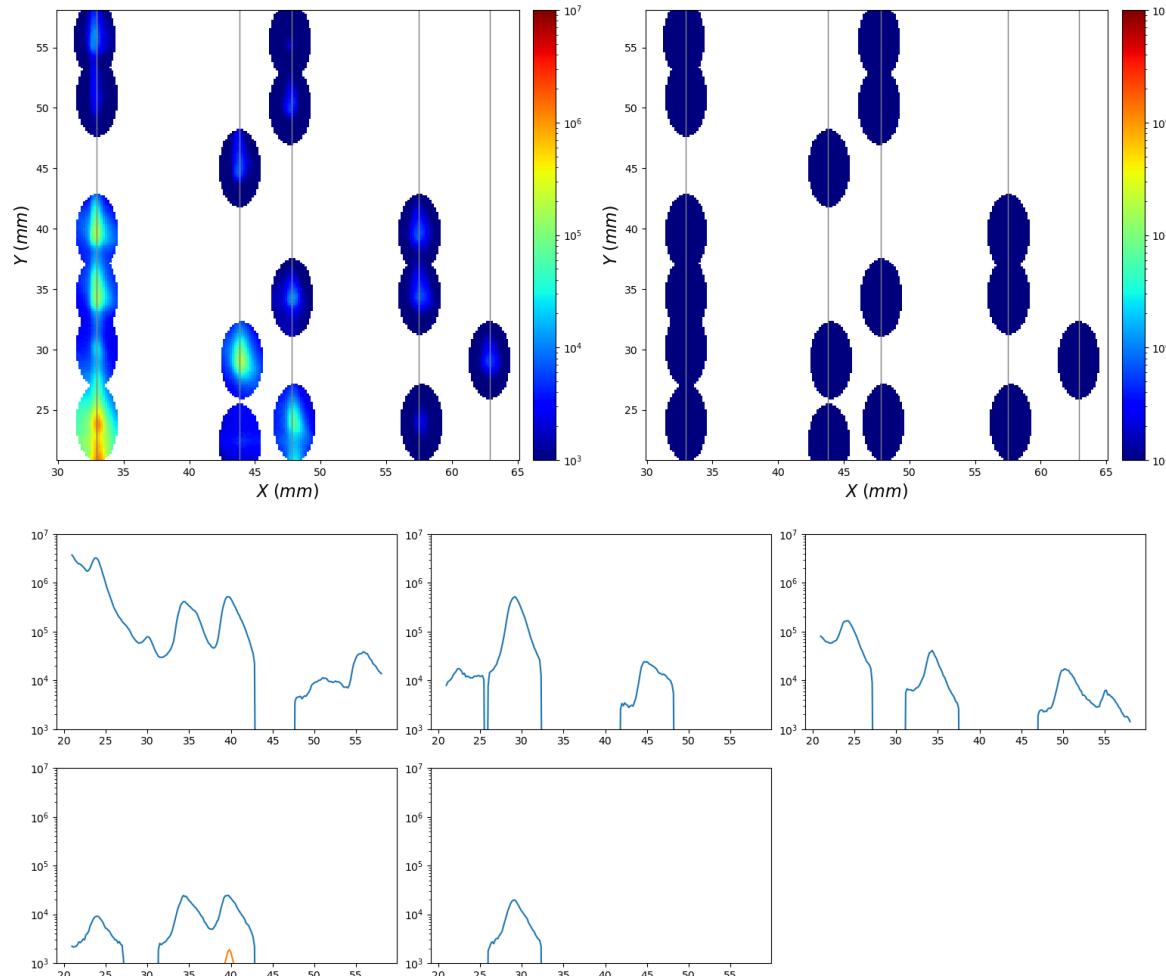
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 42.35
}
```



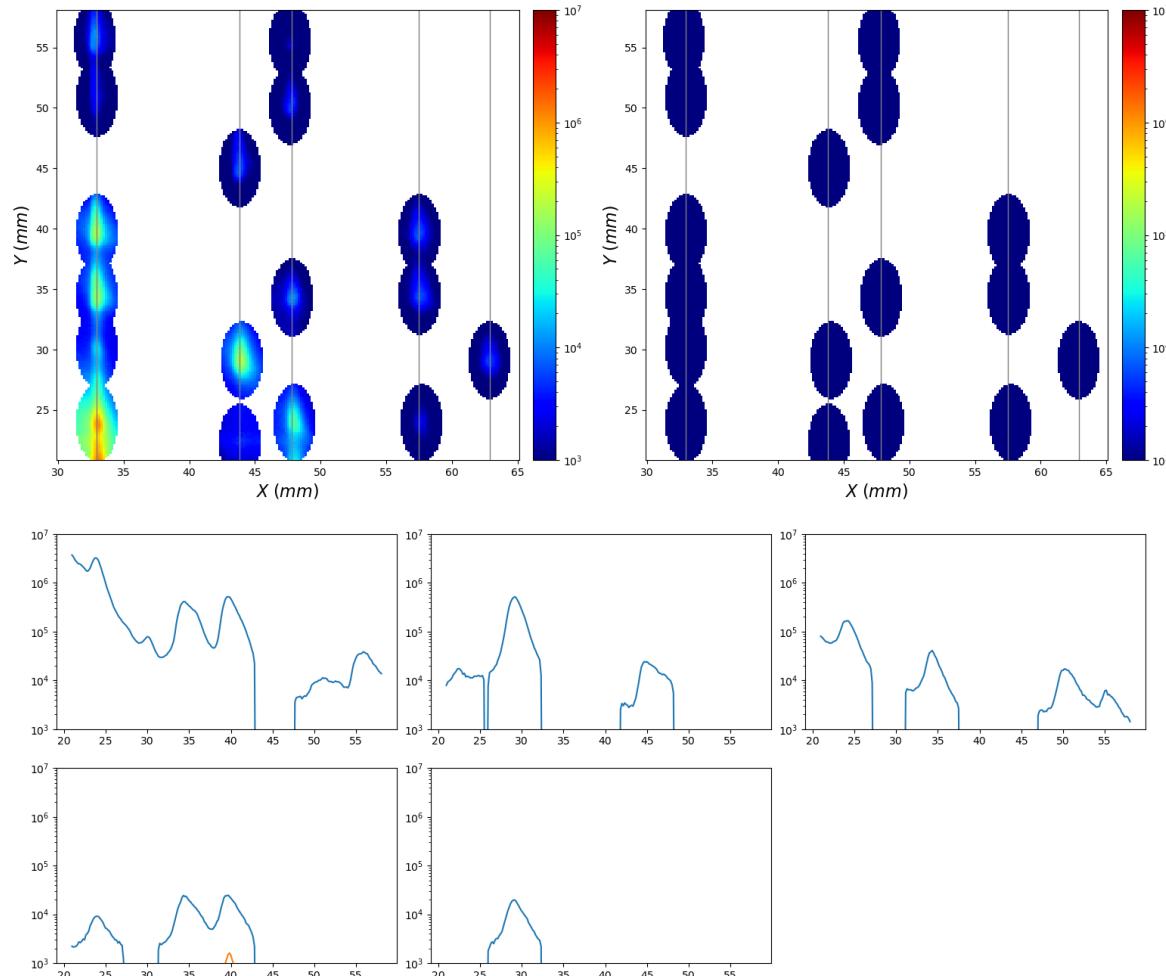
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 42.55
}
```



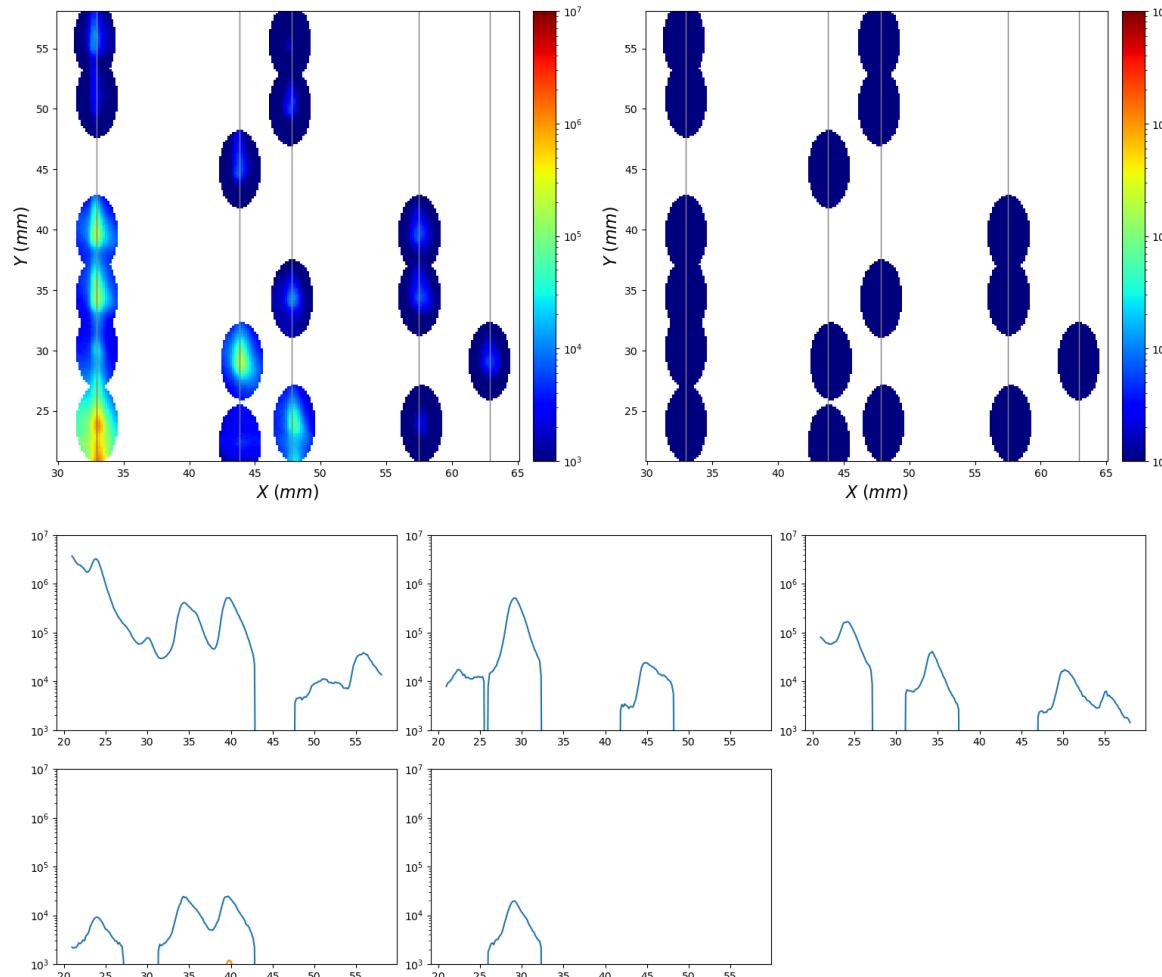
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 42.75
}
```



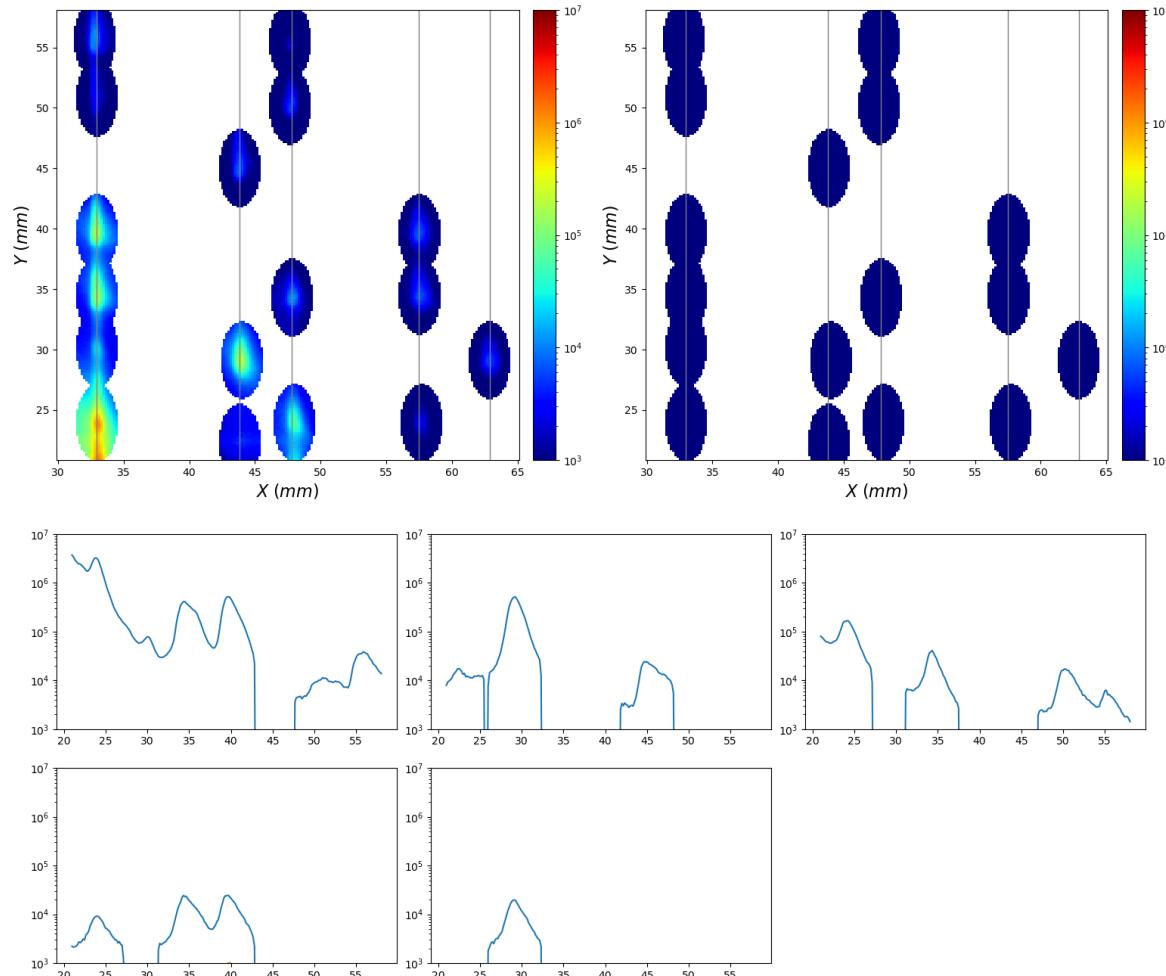
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 42.95
}
```



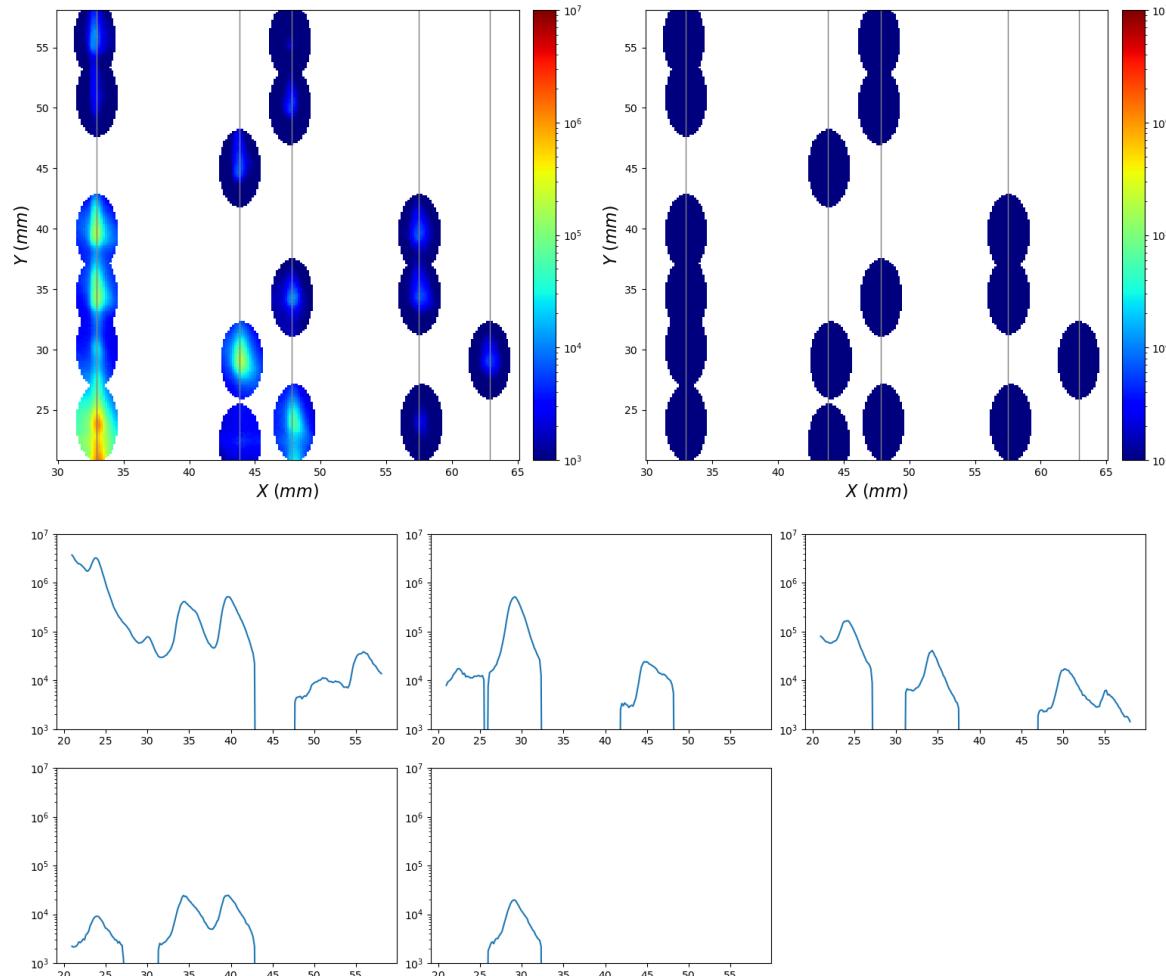
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 43.15
}
```



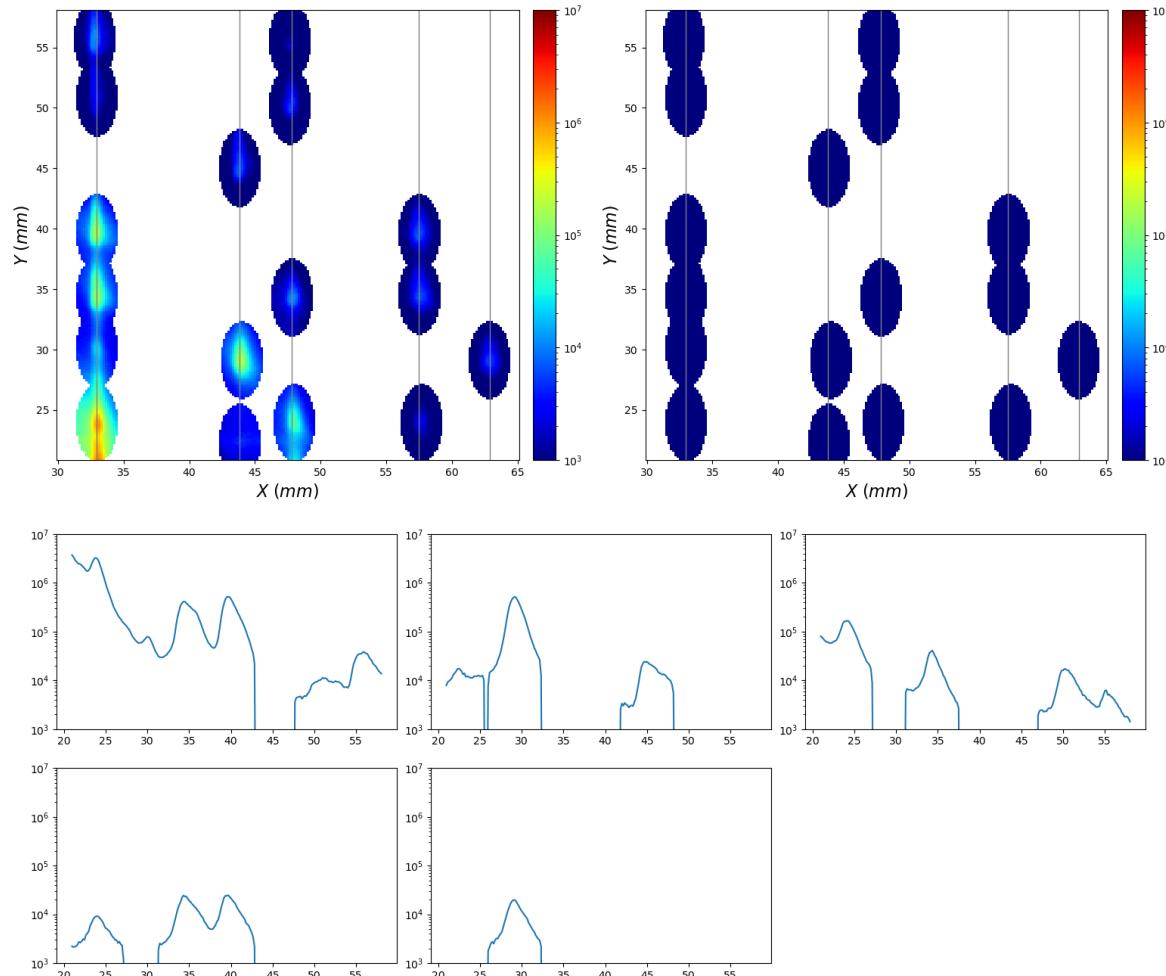
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 43.35
}
```



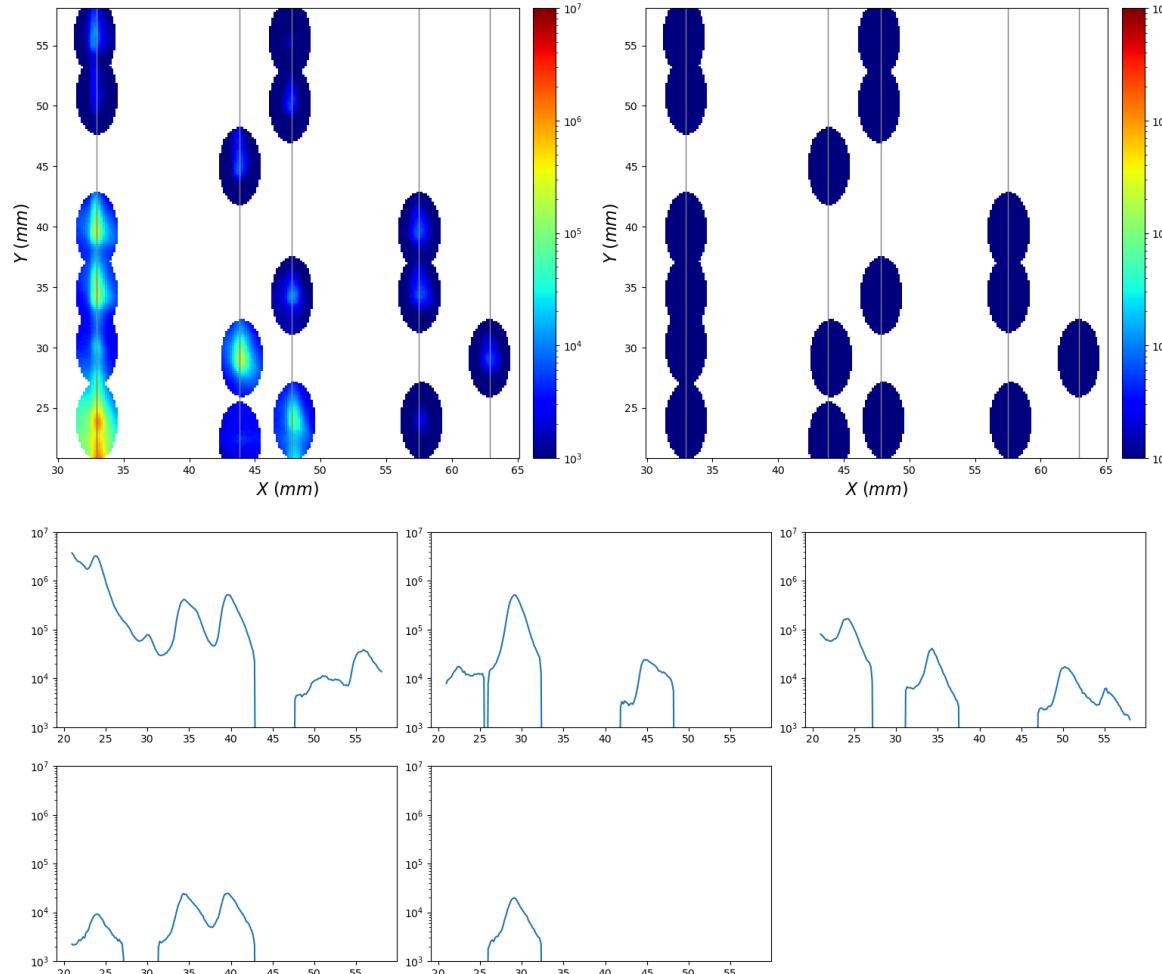
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 43.55
}
```



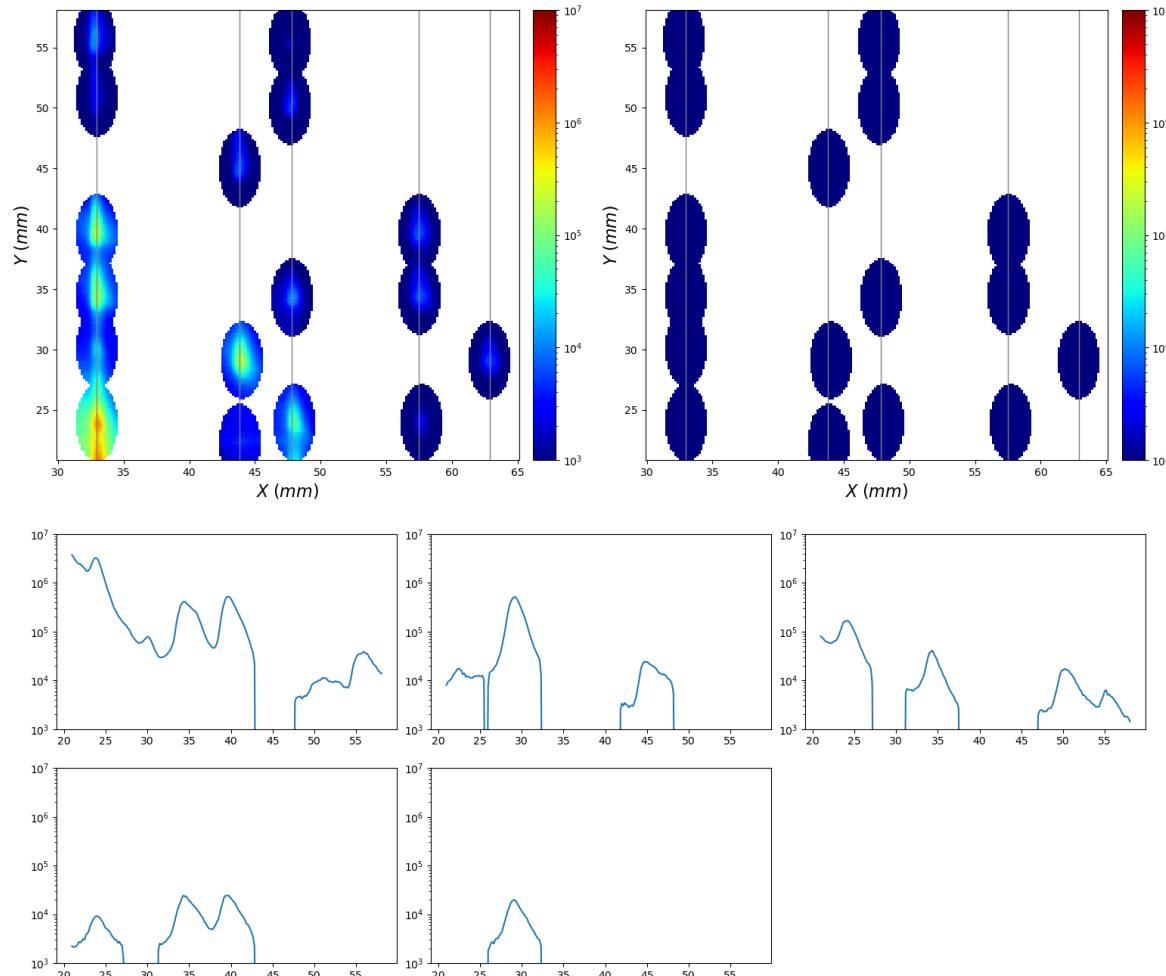
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 43.75
}
```



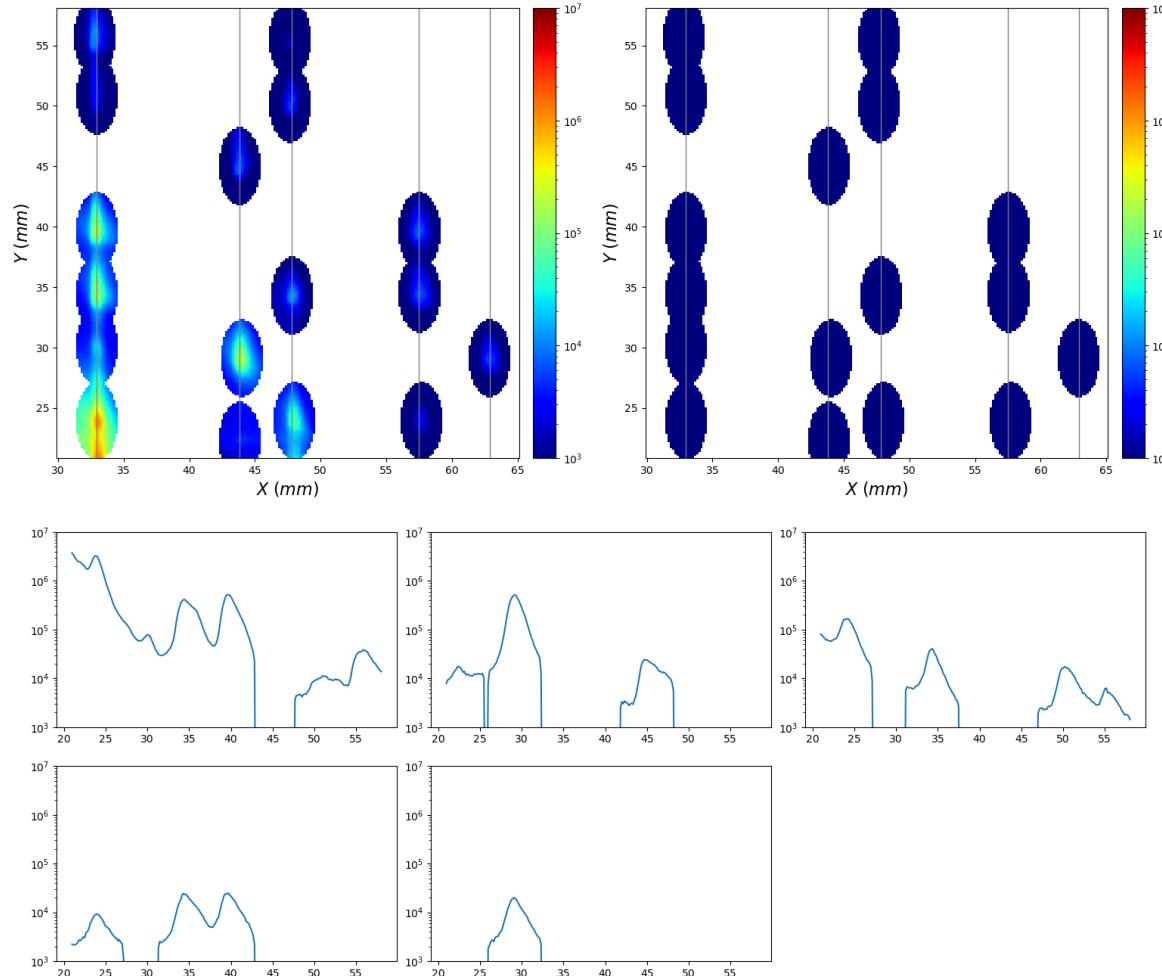
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 43.95
}
```



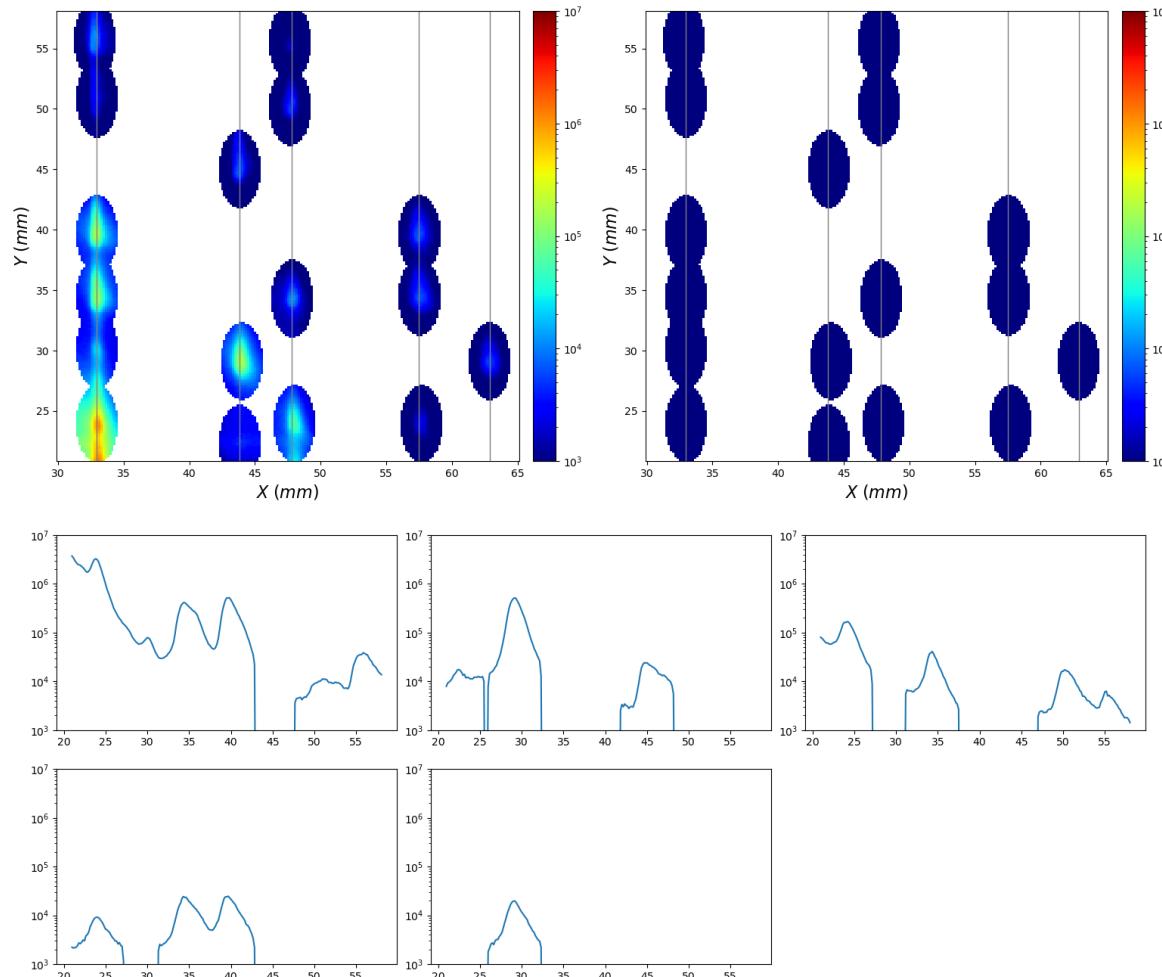
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 44.15
}
```



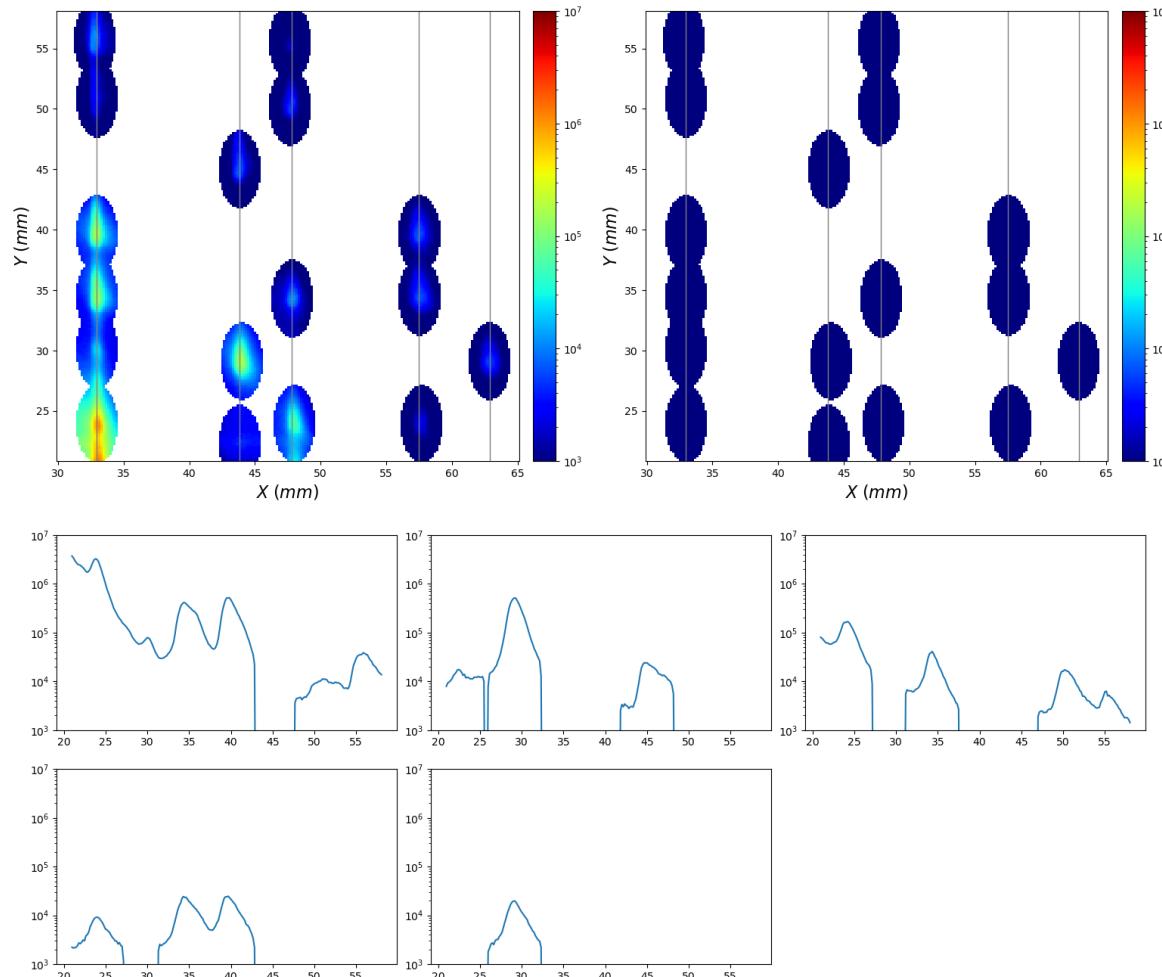
## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 44.35
}
```



## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 44.55
}
```



## Single meso, rotation\_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 44.75
}
```

