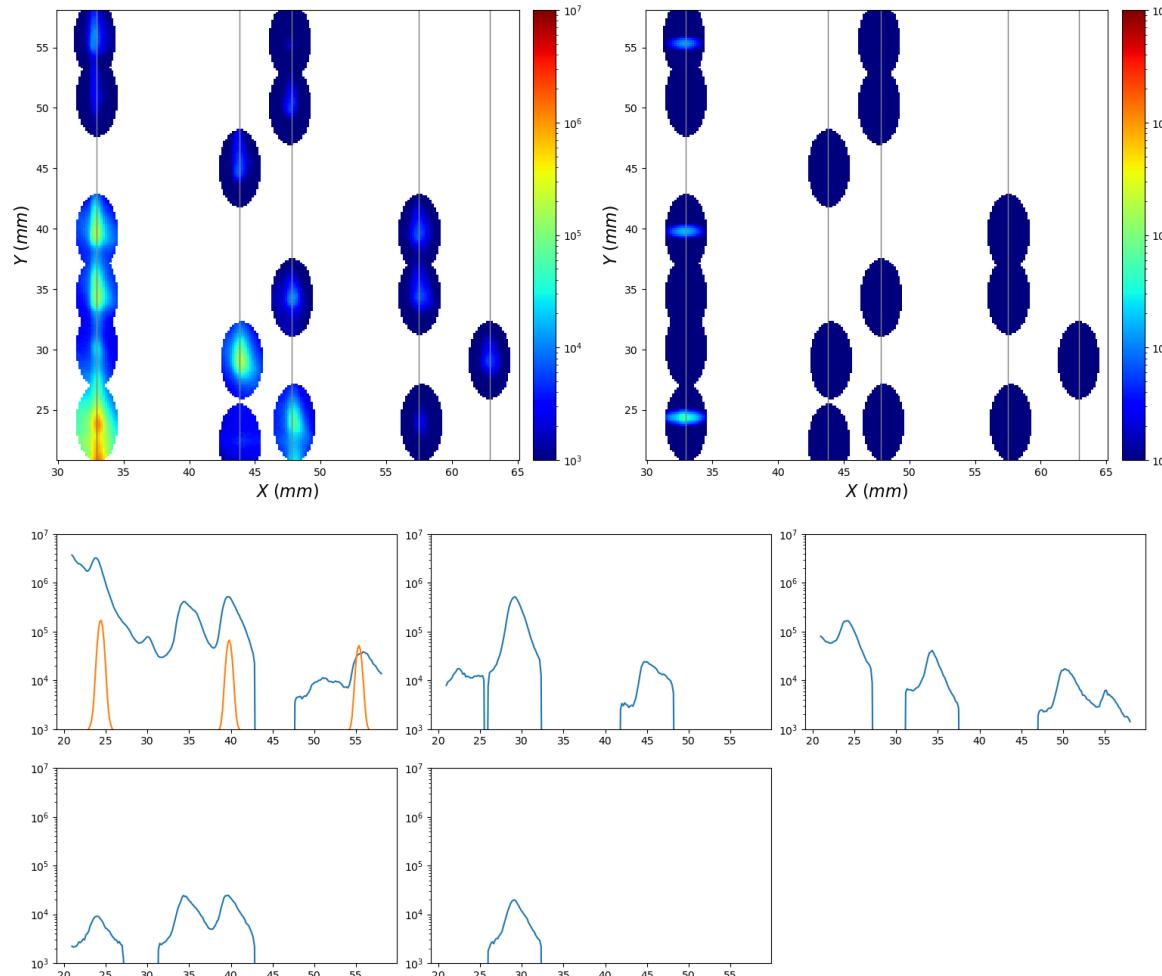


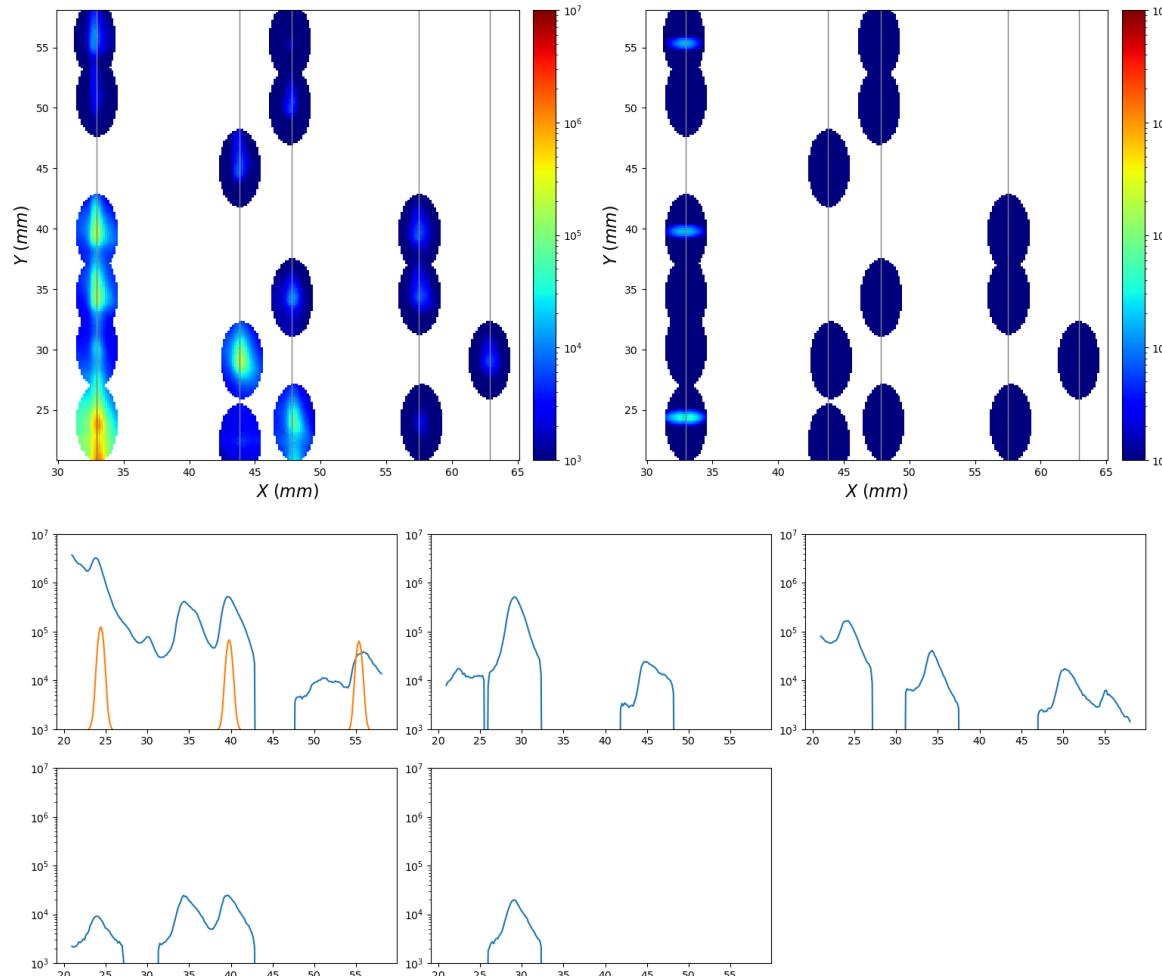
## Single meso, rotation\_z

```
{  
    "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": 52.5  
}
```



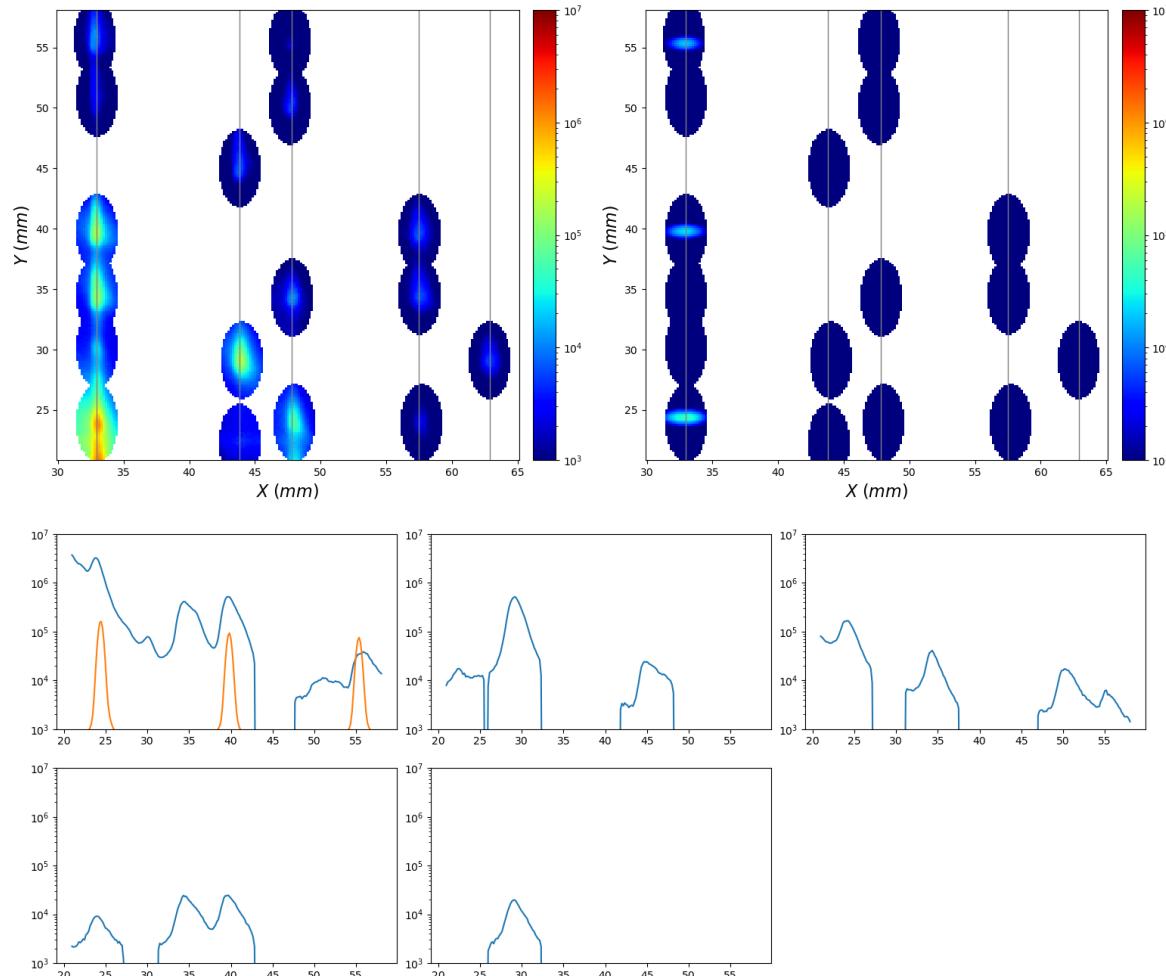
## Single meso, rotation\_z

```
{  
    "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": 52.7  
}
```



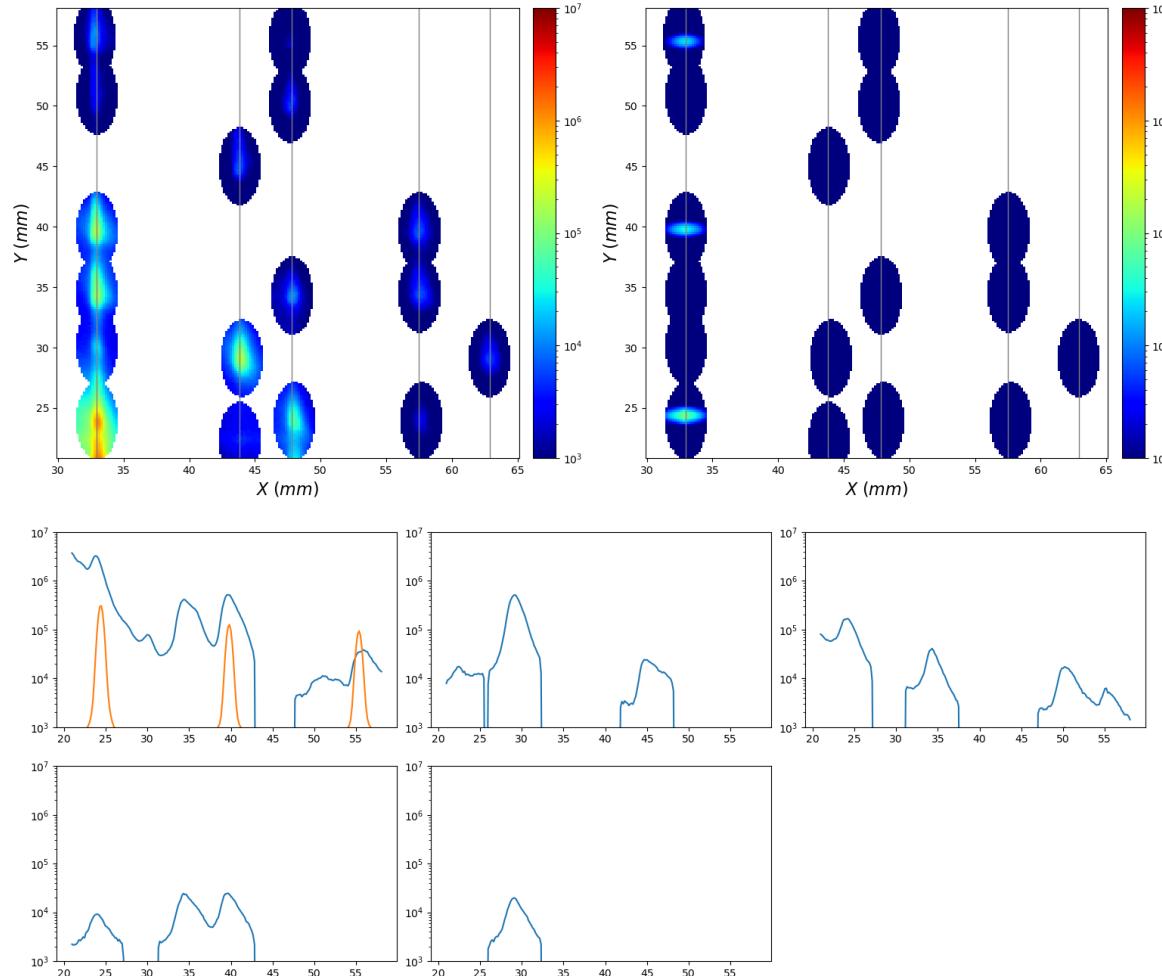
## Single meso, rotation\_z

```
{  
    "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": 52.9  
}
```



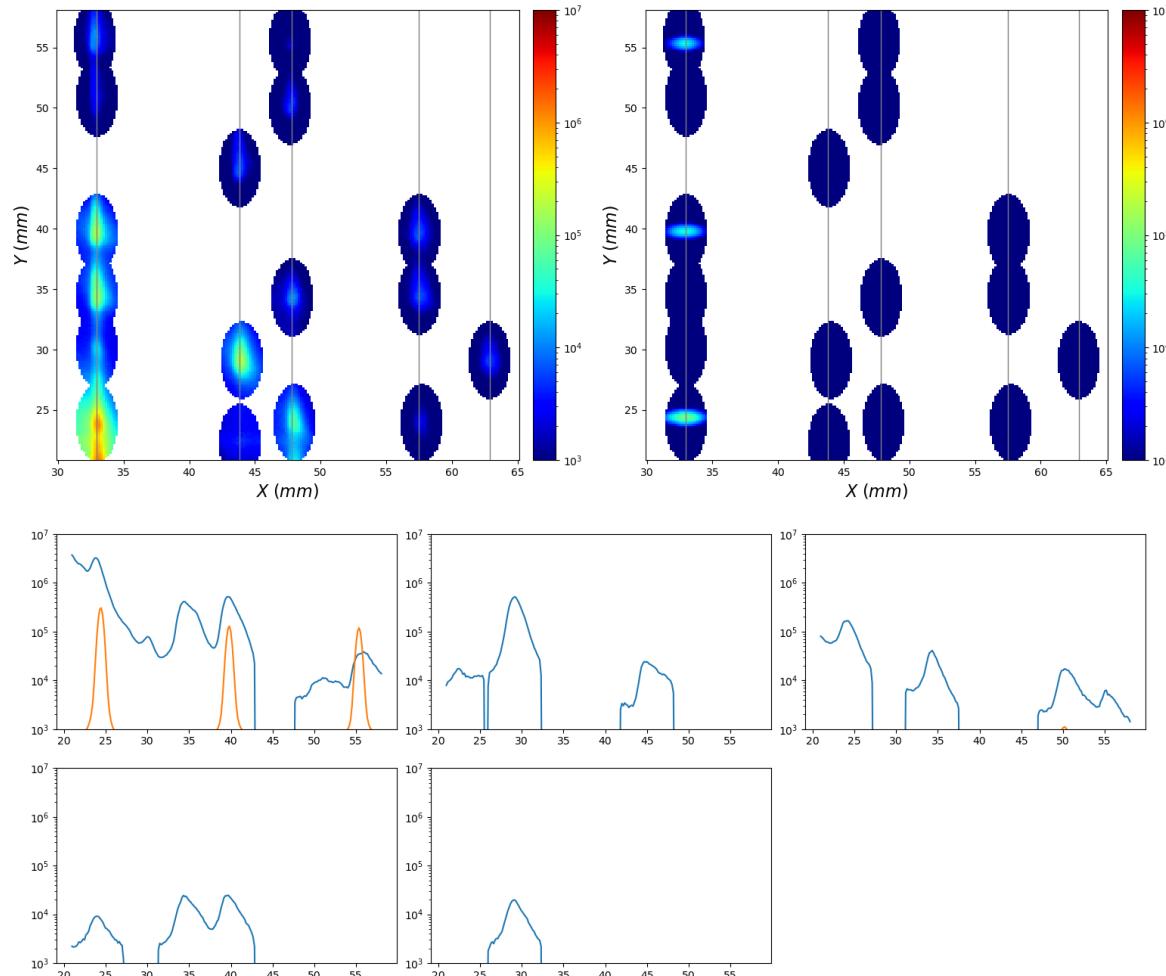
## Single meso, rotation\_z

```
{
  "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": 53.1
}
```



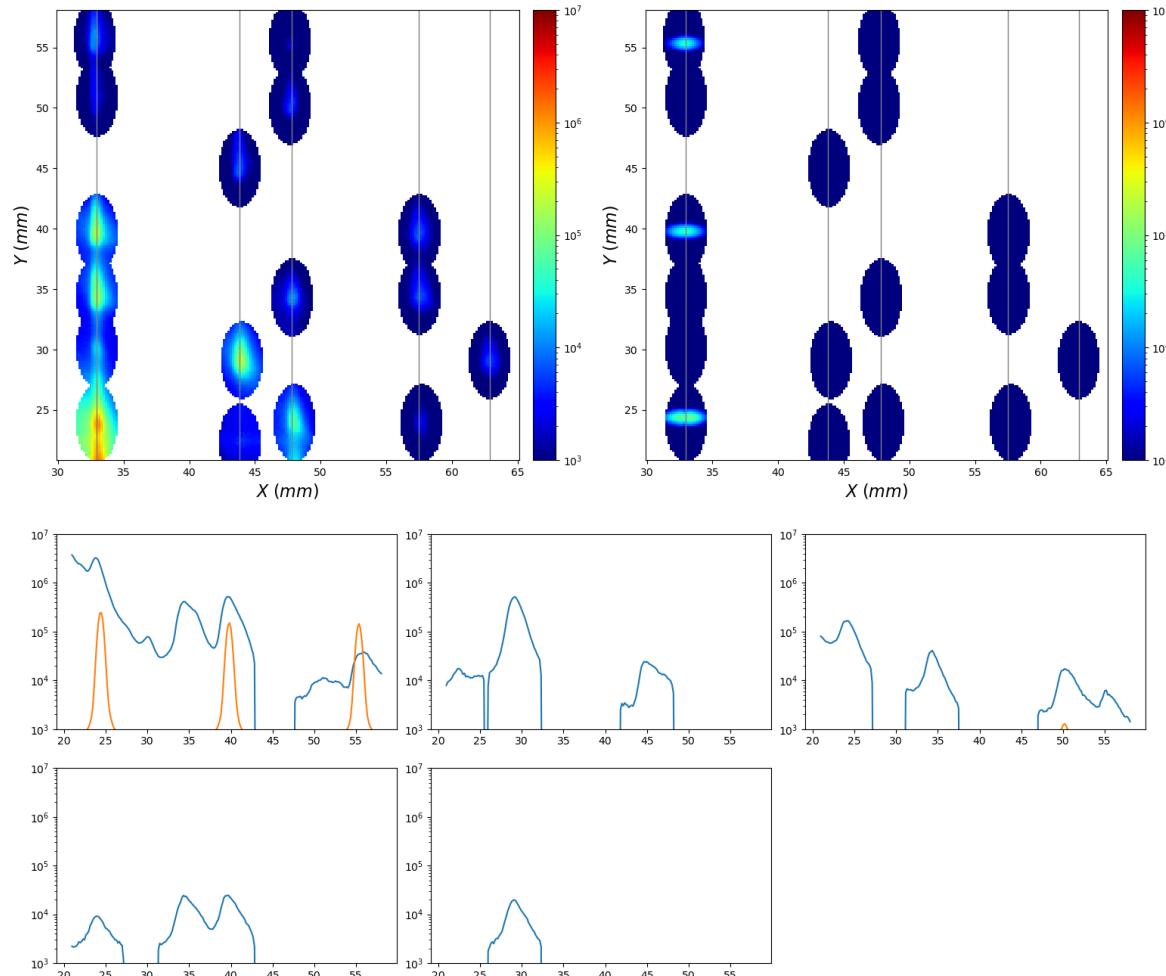
## Single meso, rotation\_z

```
{
  "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": 53.3
}
```



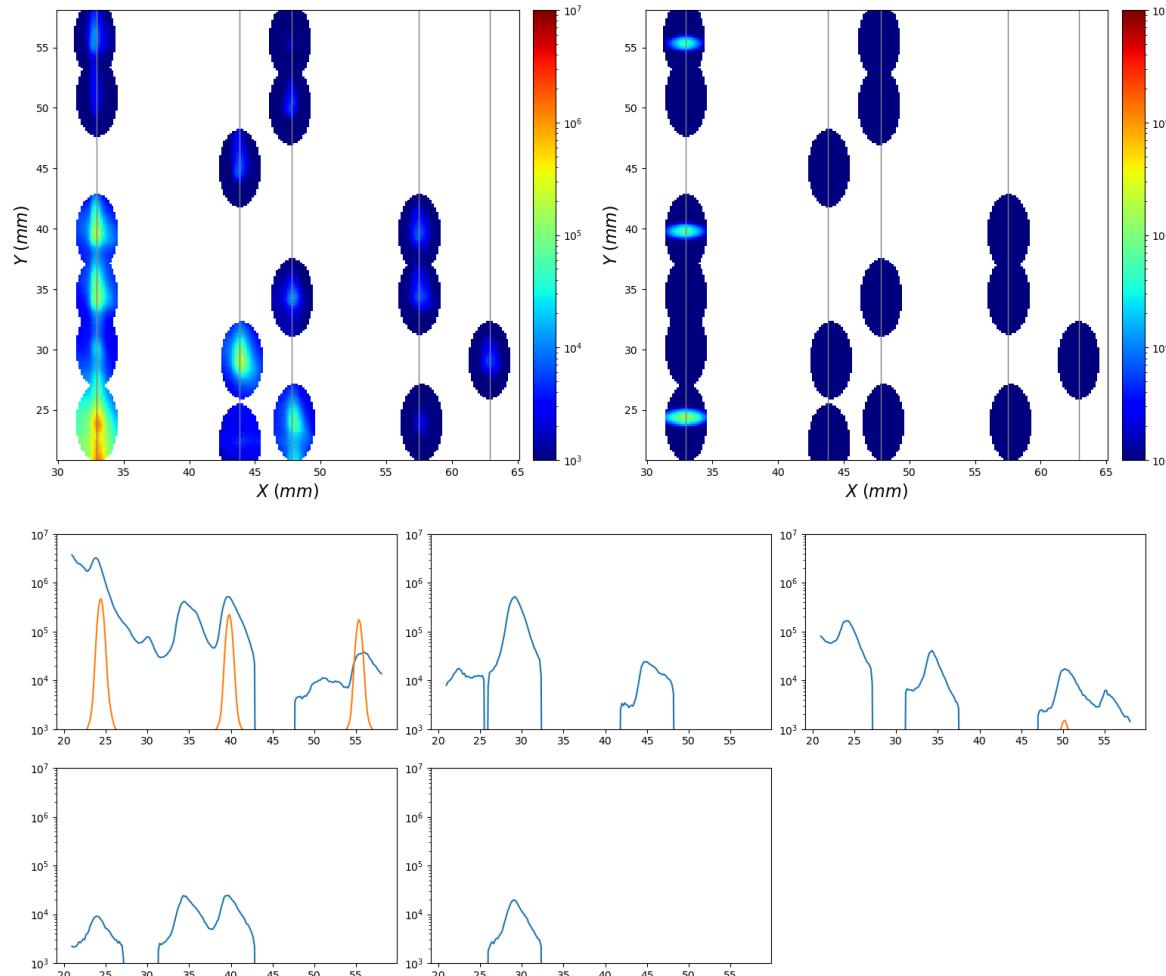
## Single meso, rotation\_z

```
{
  "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": 53.5
}
```



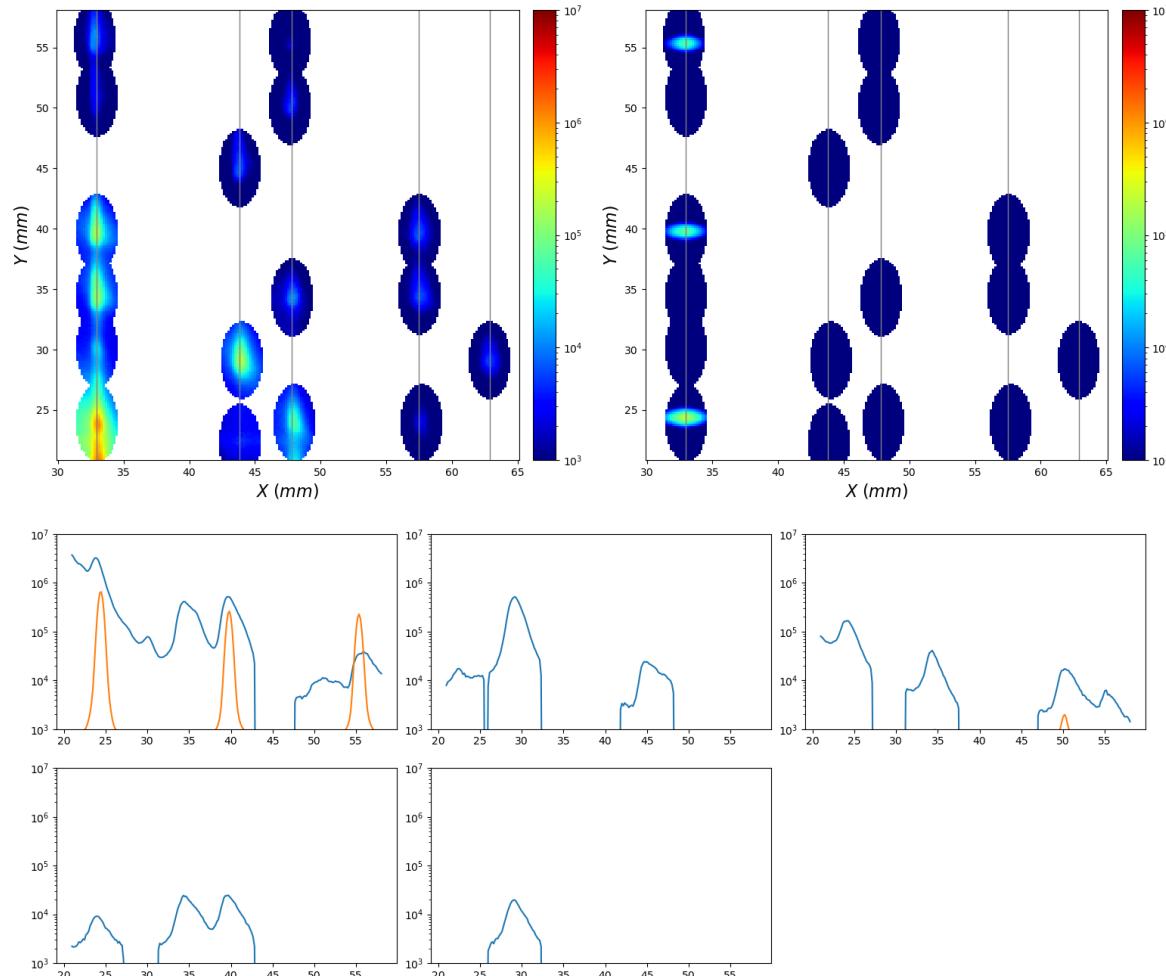
## Single meso, rotation\_z

```
{
  "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": 53.7
}
```



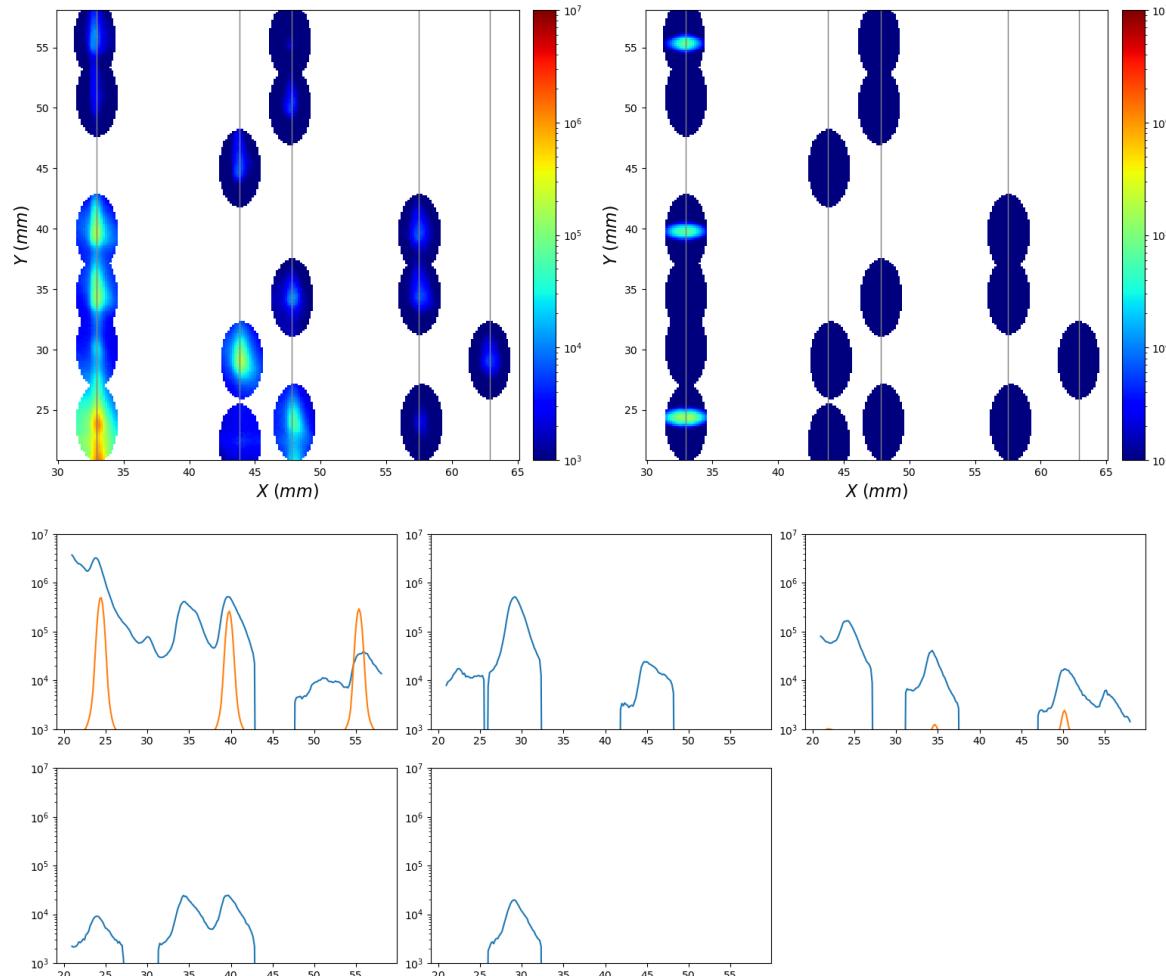
## Single meso, rotation\_z

```
{
  "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": 53.9
}
```



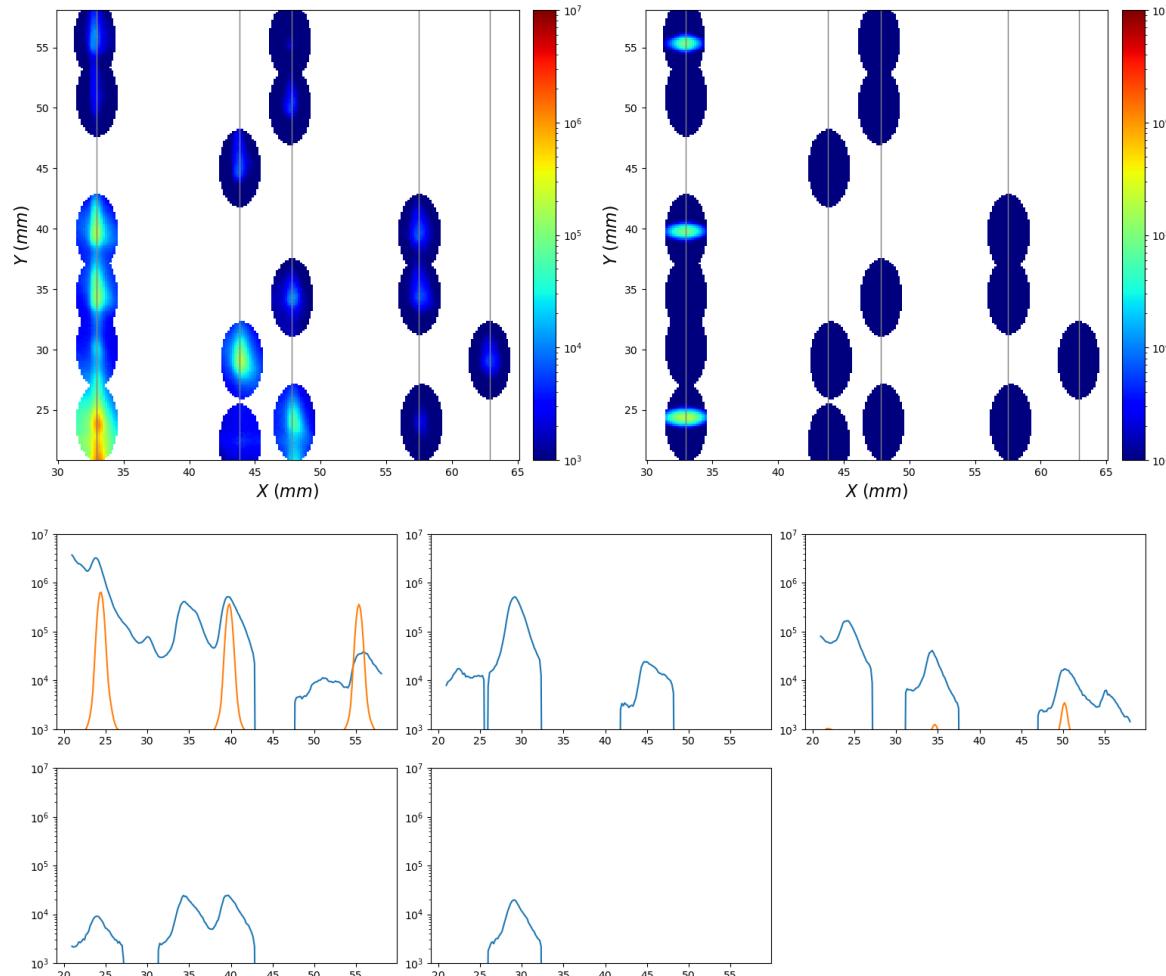
## Single meso, rotation\_z

```
{
  "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": 54.1
}
```



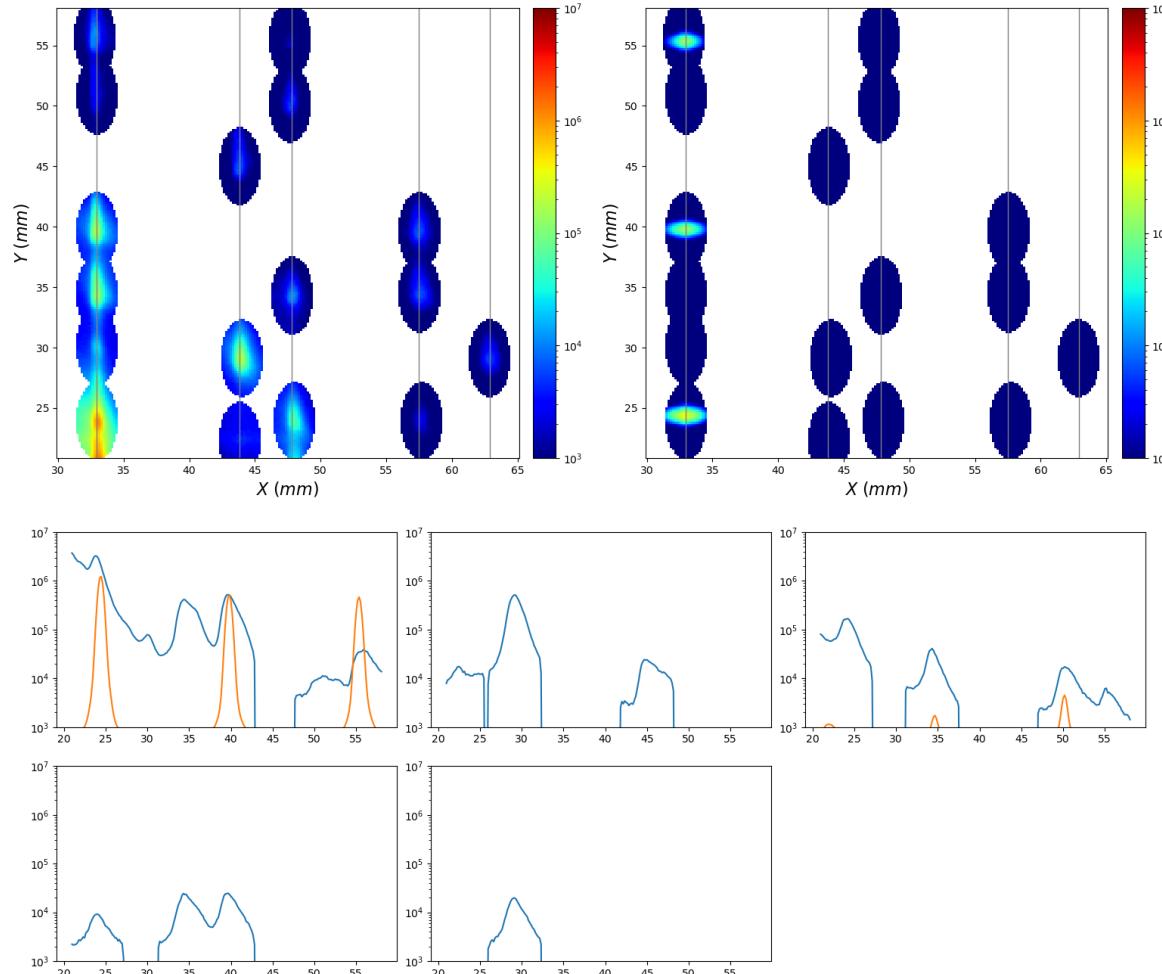
## Single meso, rotation\_z

```
{
  "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": 54.3
}
```



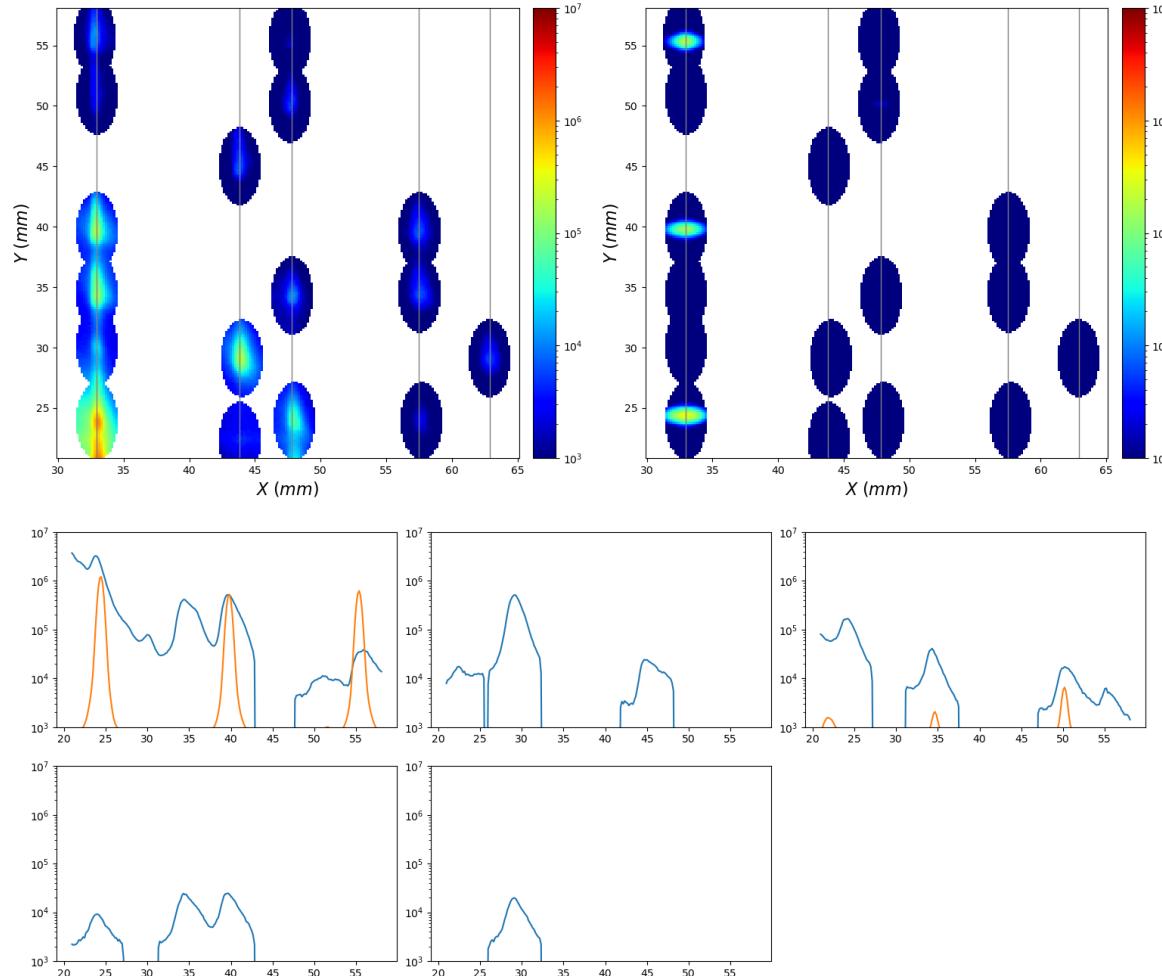
## Single meso, rotation\_z

```
{
  "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": 54.5
}
```



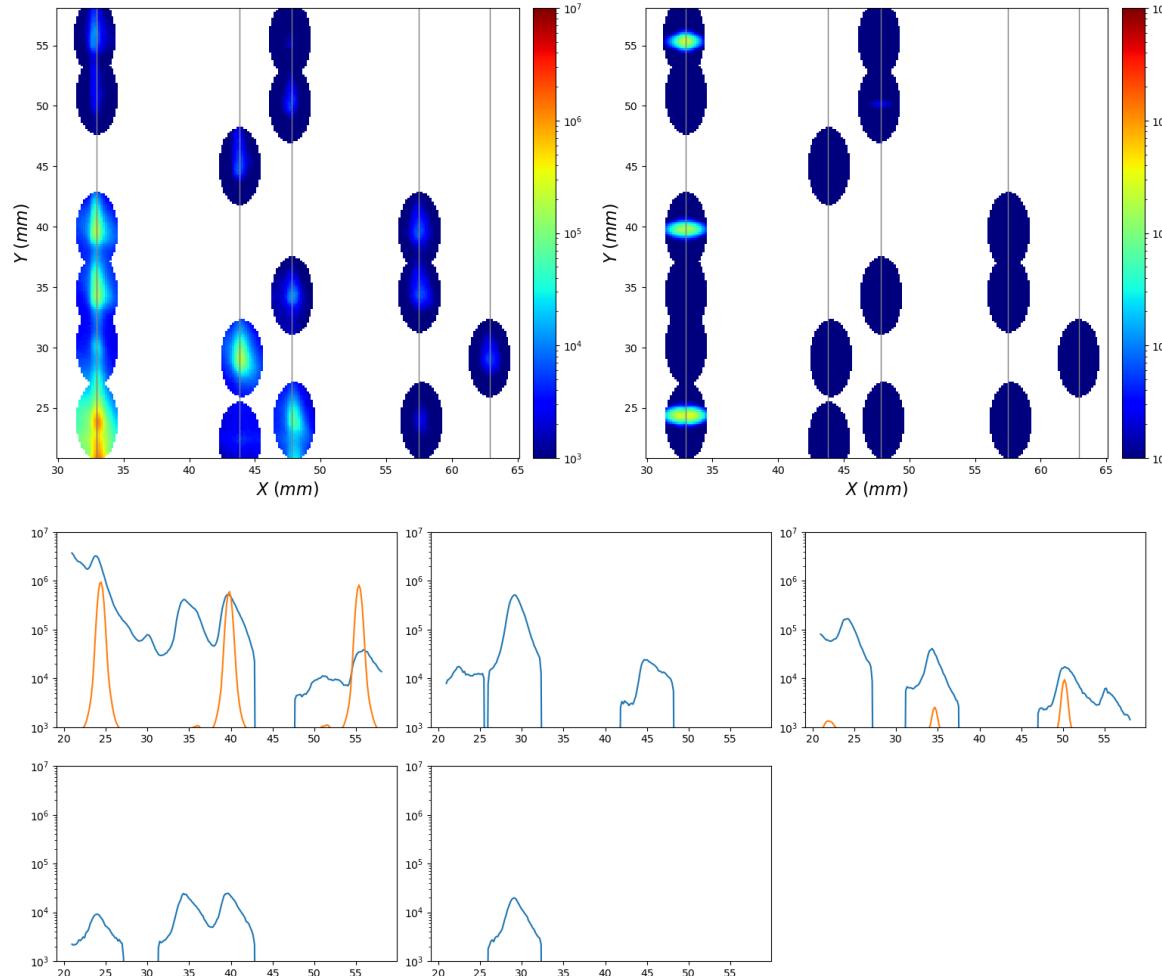
## Single meso, rotation\_z

```
{
  "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": 54.7
}
```



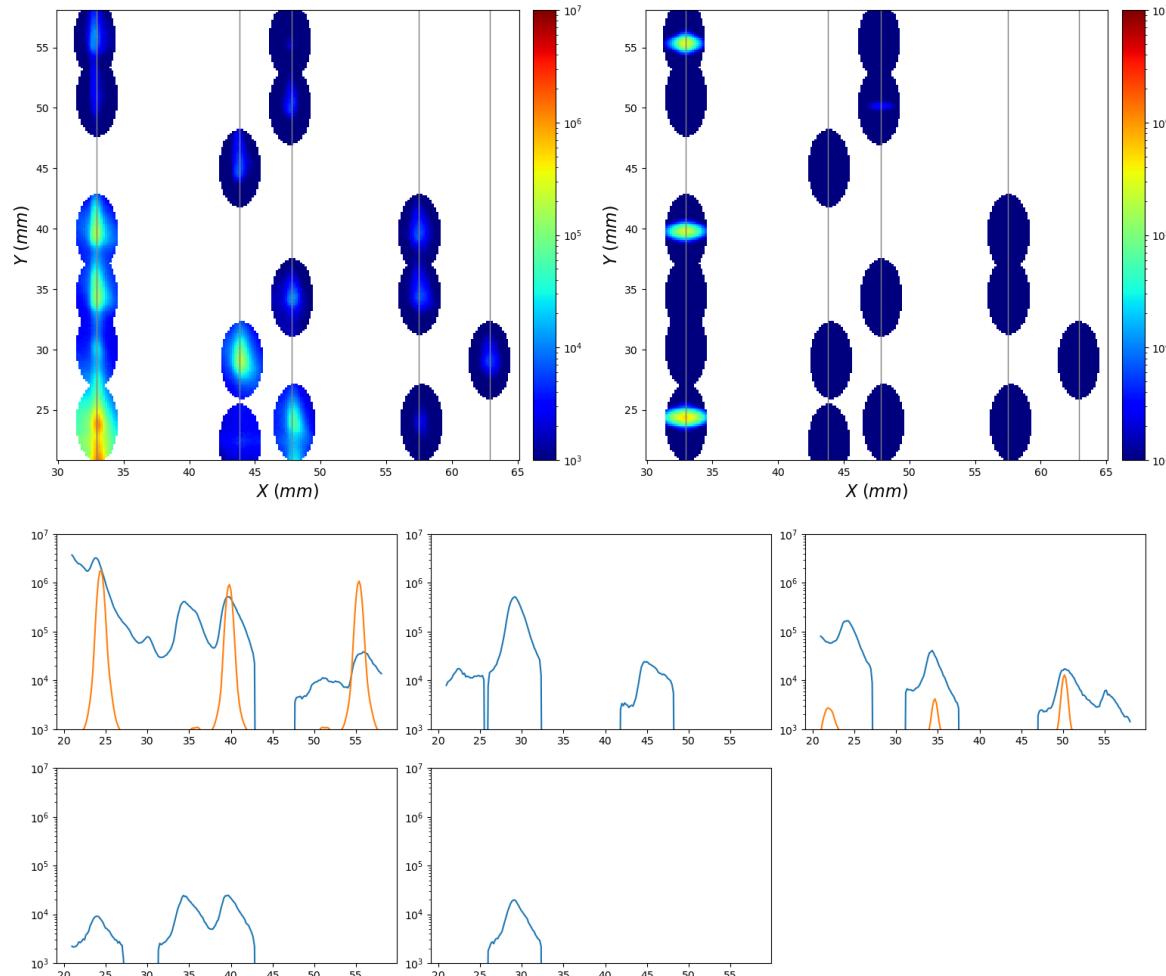
## Single meso, rotation\_z

```
{
  "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": 54.9
}
```



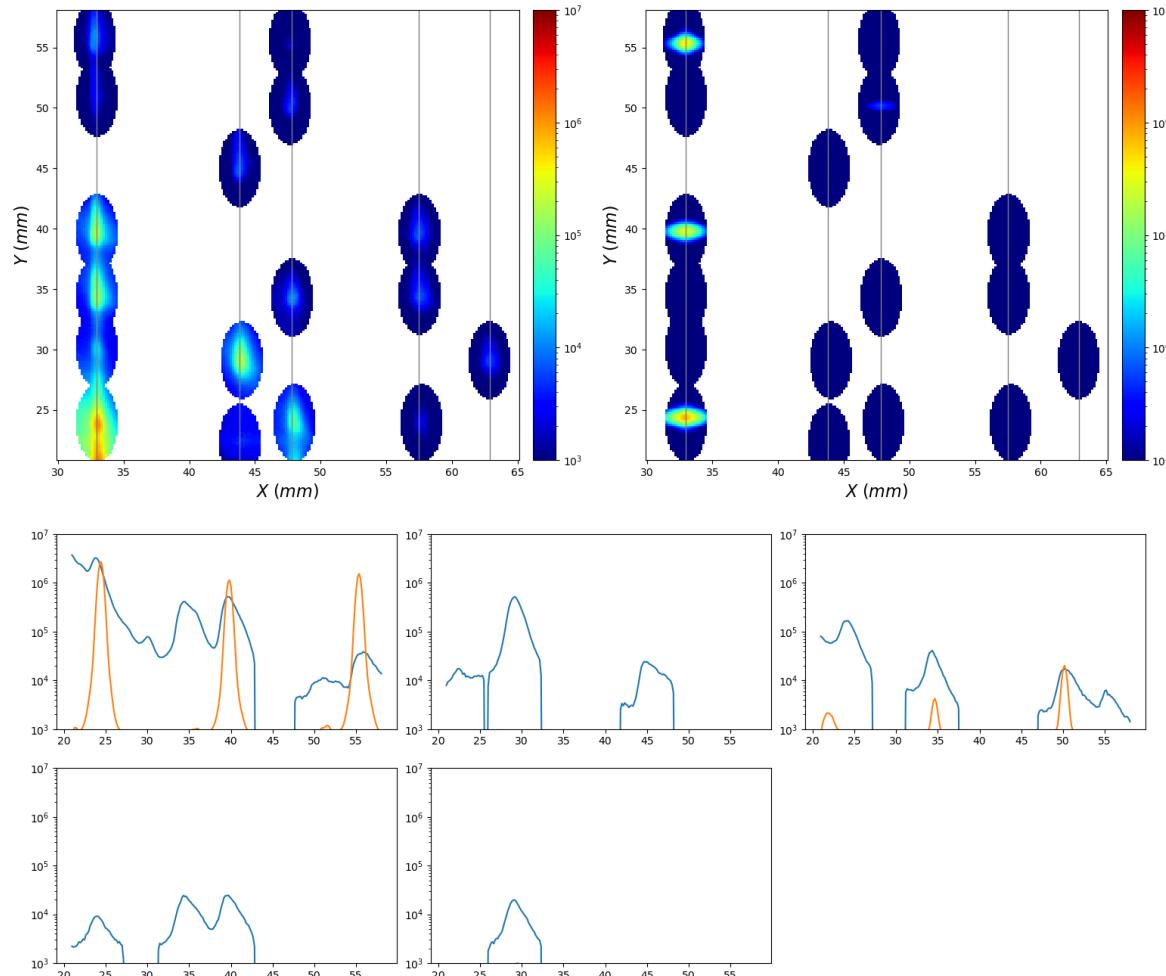
## Single meso, rotation\_z

```
{
  "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": 55.1
}
```



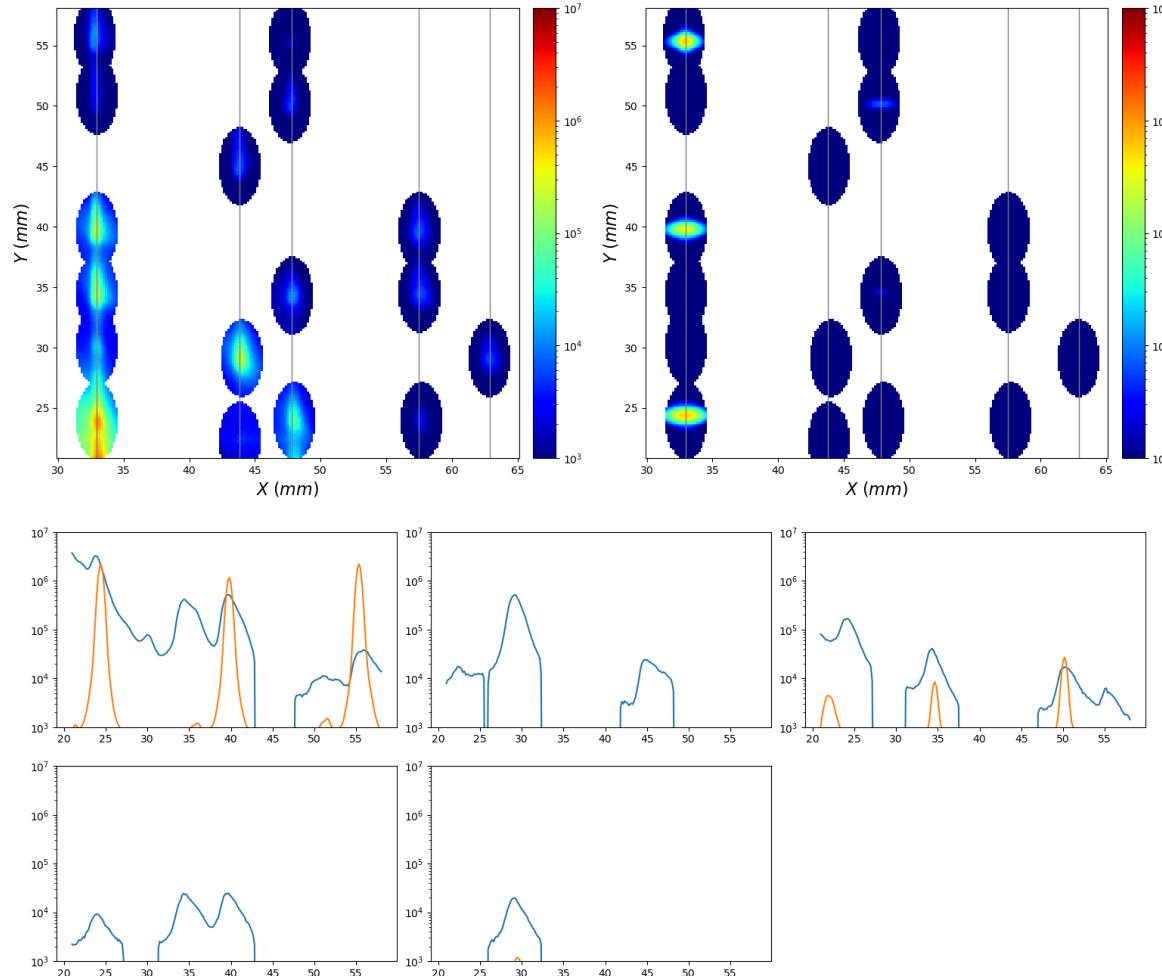
## Single meso, rotation\_z

```
{
  "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": 55.3
}
```



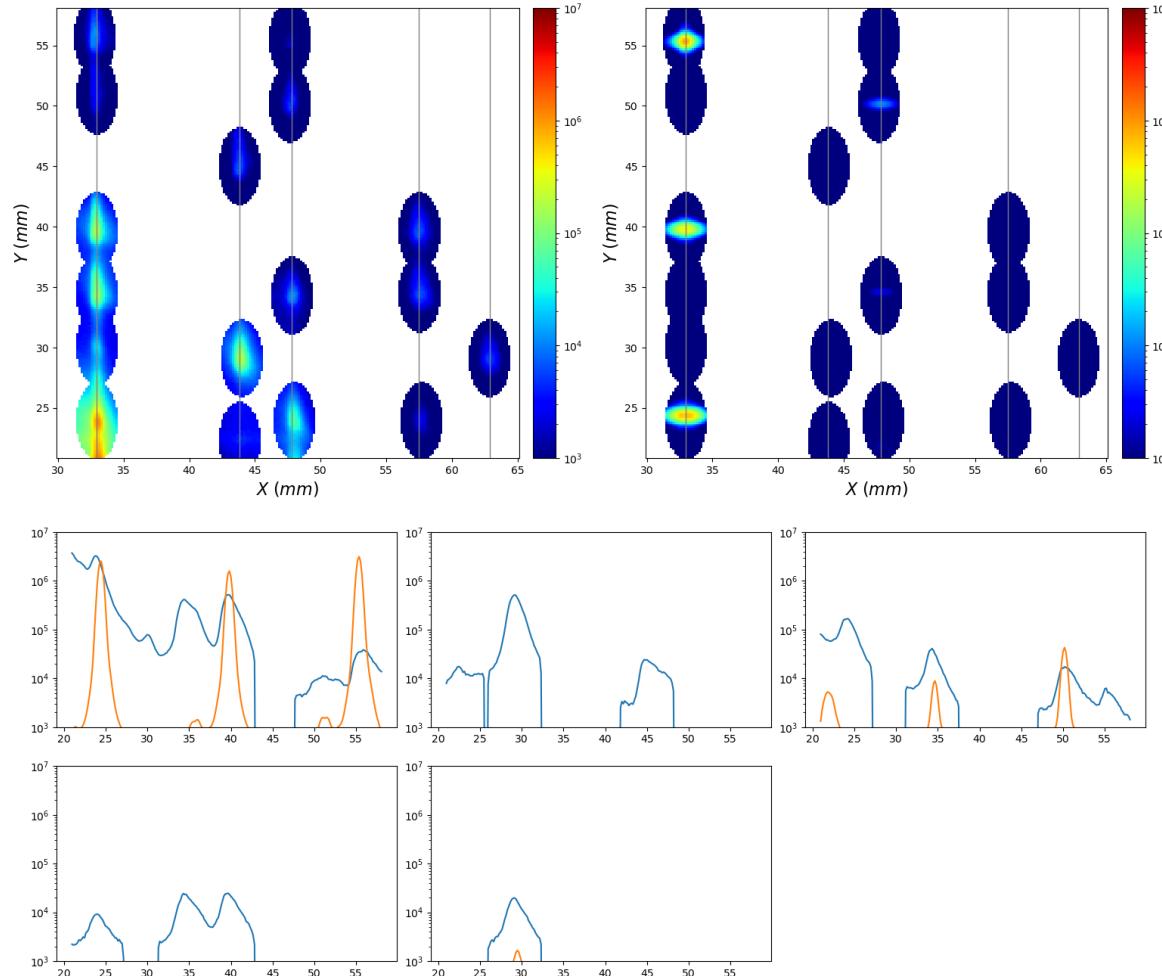
## Single meso, rotation\_z

```
{
  "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": 55.5
}
```



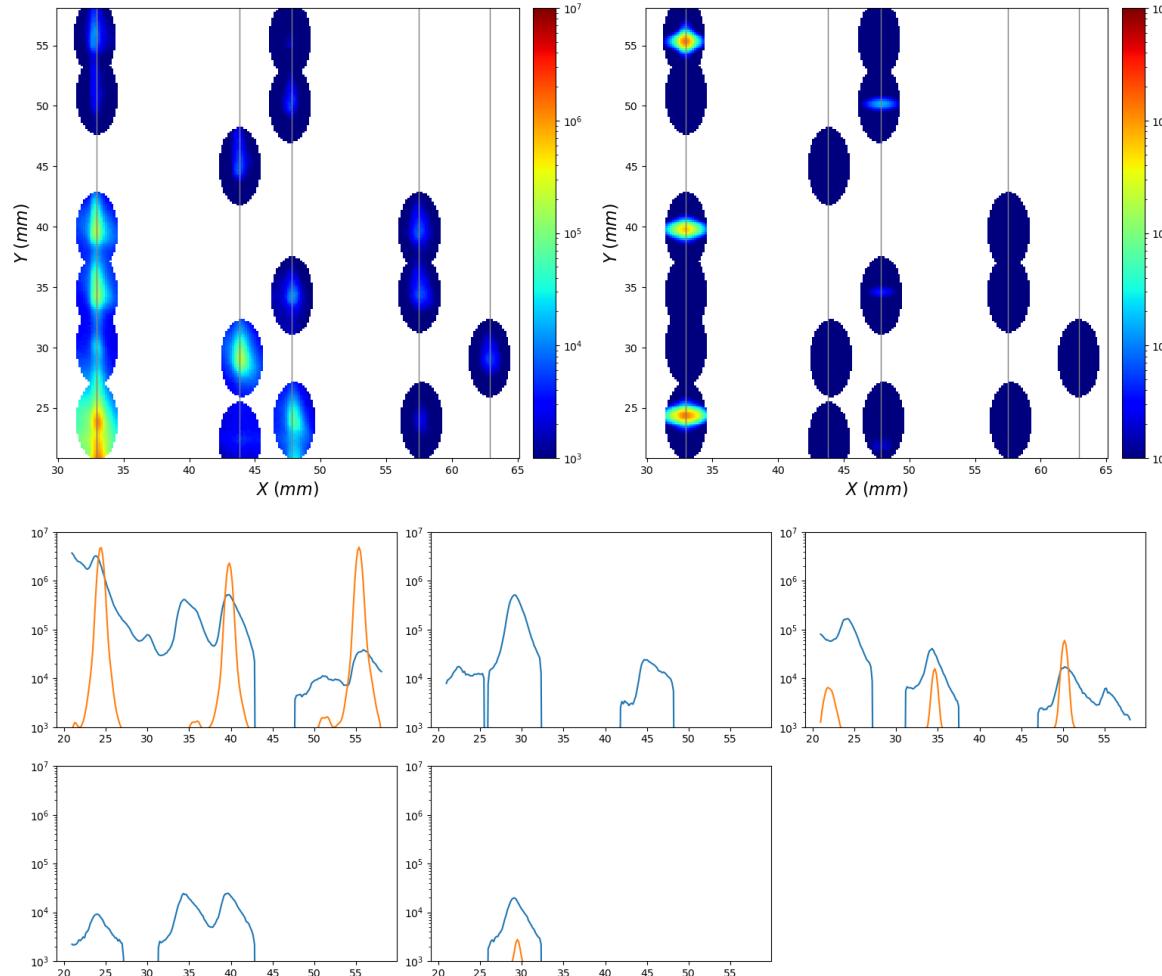
## Single meso, rotation\_z

```
{
  "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": 55.7
}
```



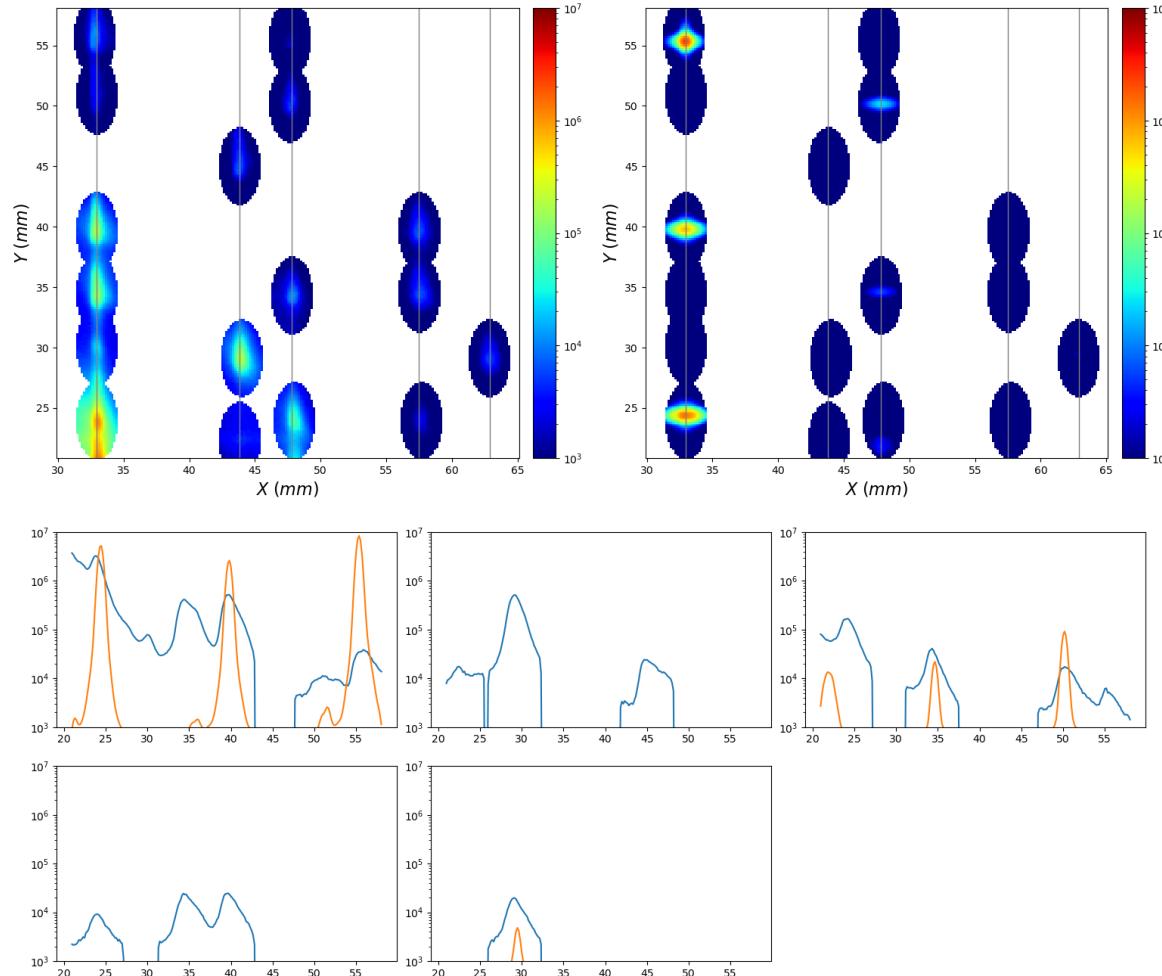
## Single meso, rotation\_z

```
{
  "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": 55.9
}
```



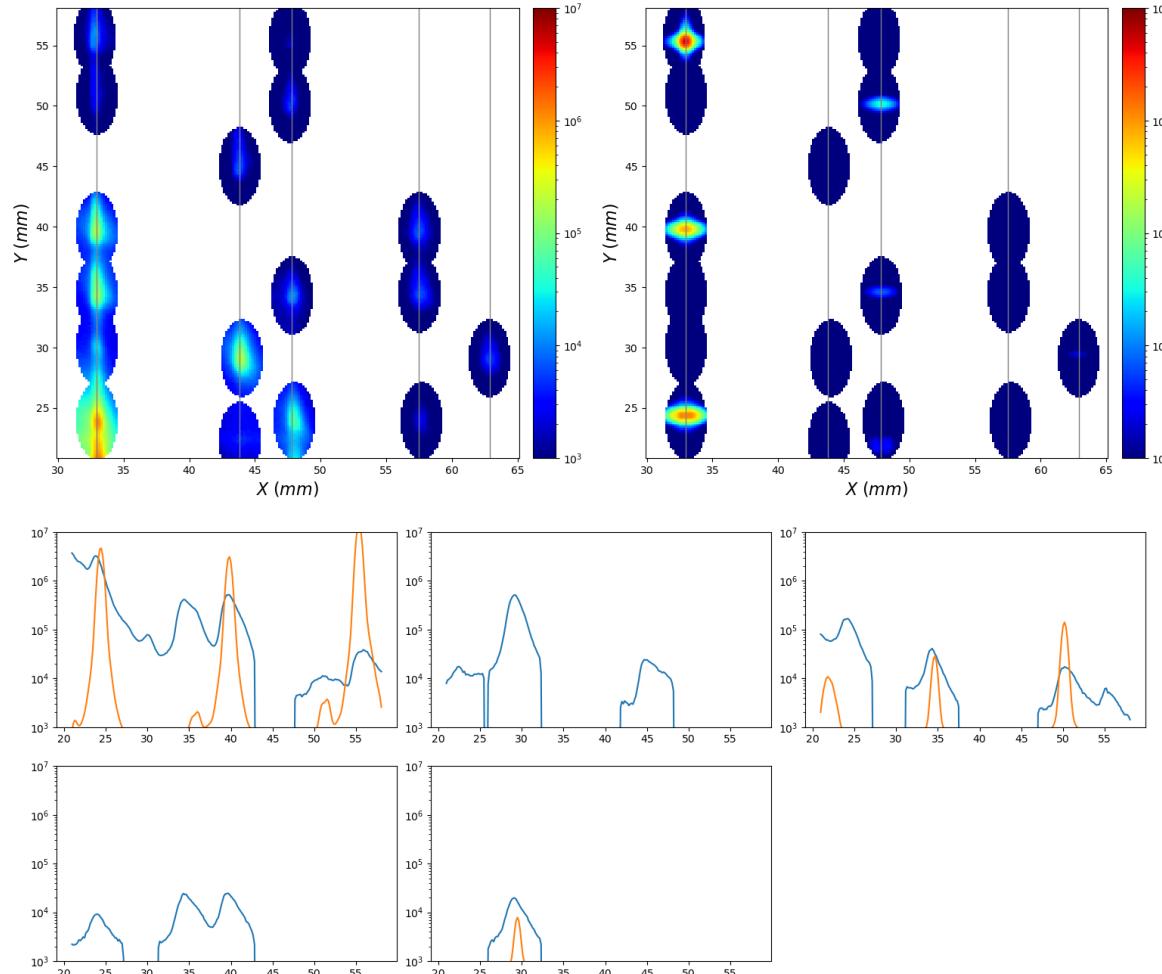
## Single meso, rotation\_z

```
{
  "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": 56.1
}
```



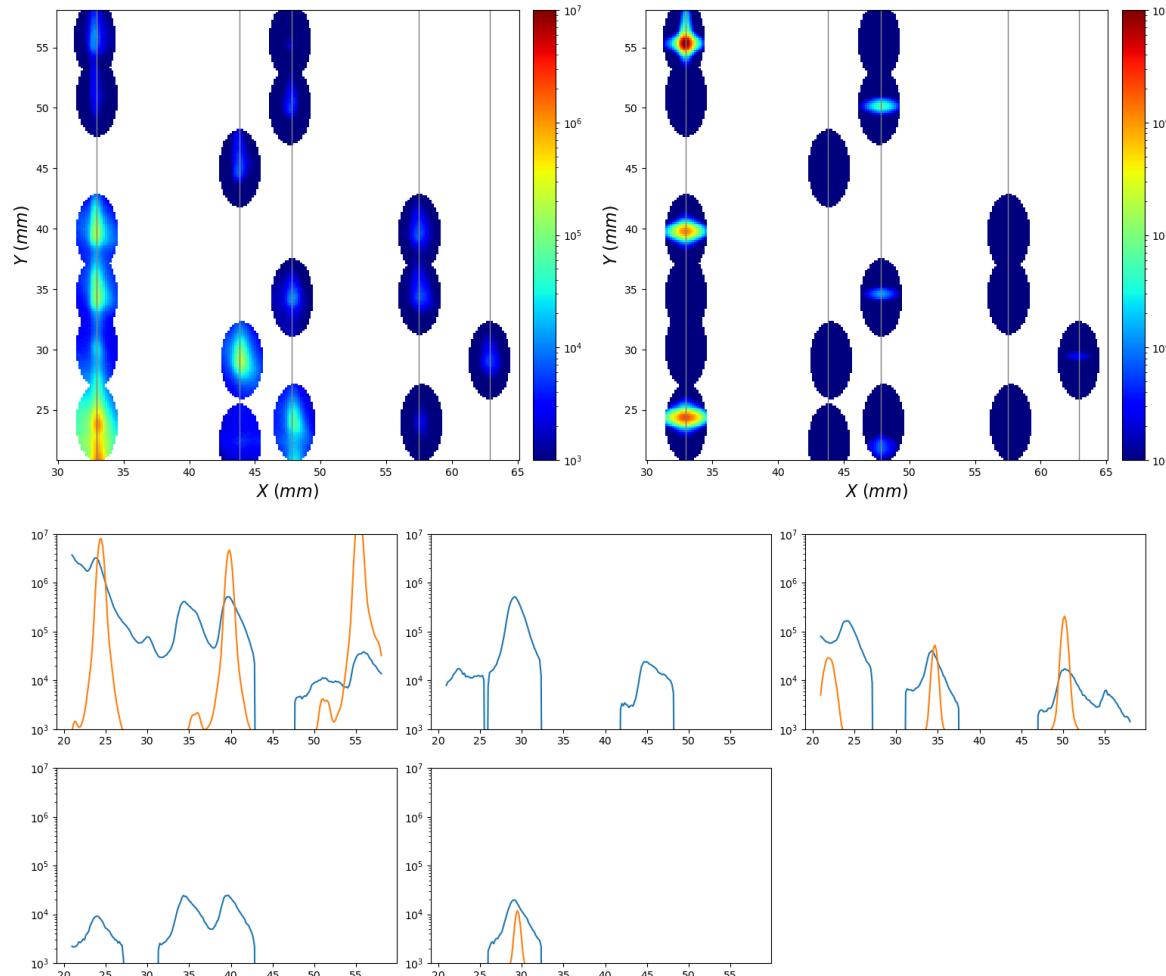
## Single meso, rotation\_z

```
{
  "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": 56.3
}
```



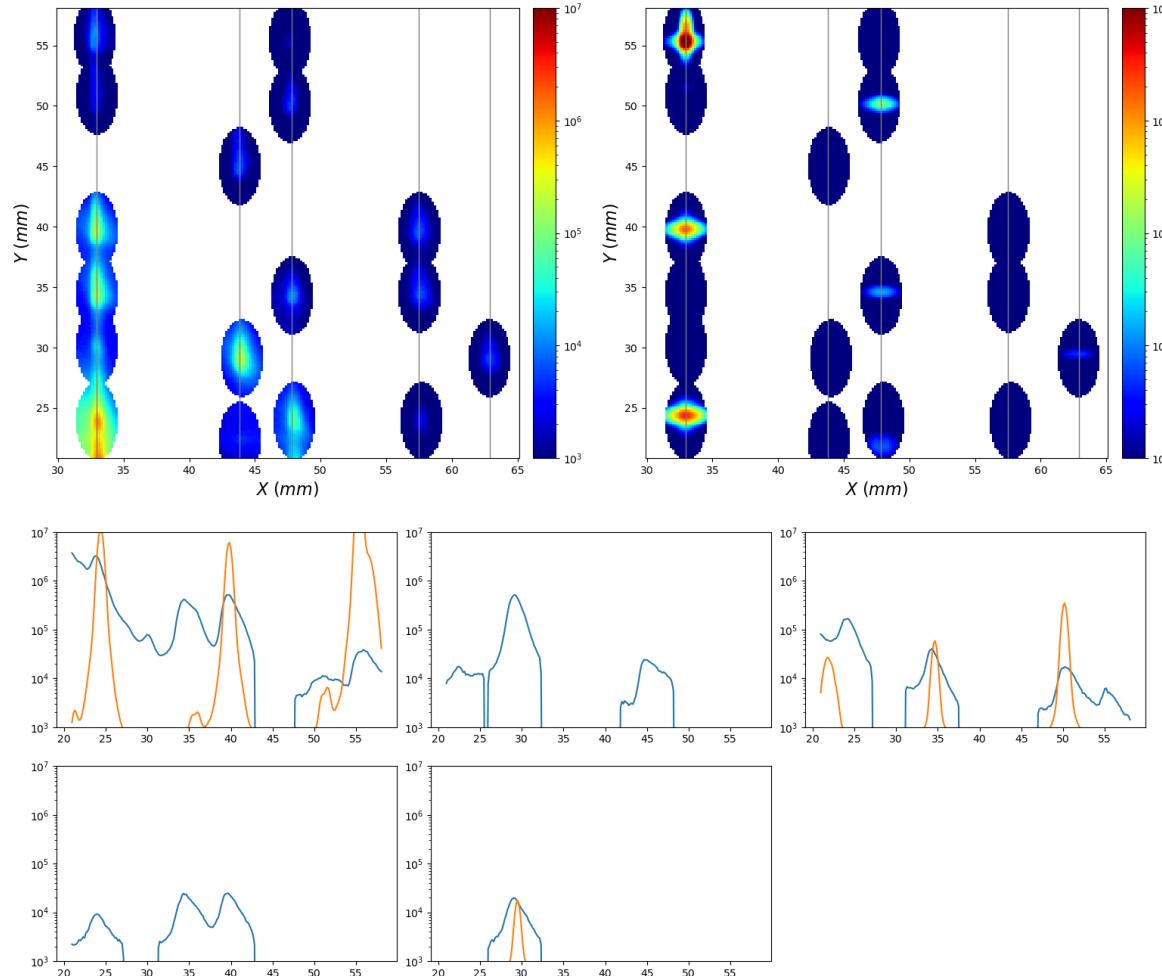
## Single meso, rotation\_z

```
{
  "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": 56.5
}
```



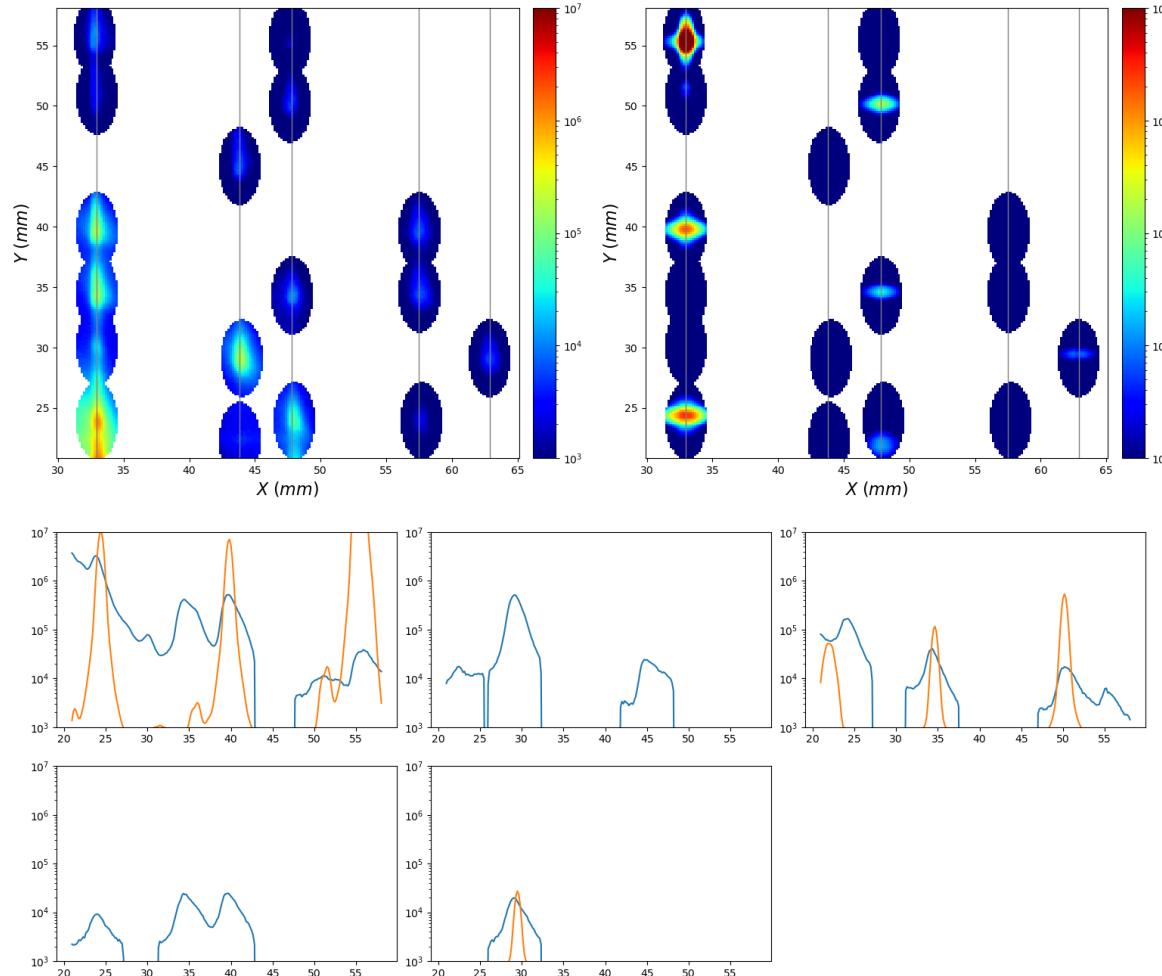
## Single meso, rotation\_z

```
{
  "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": 56.7
}
```



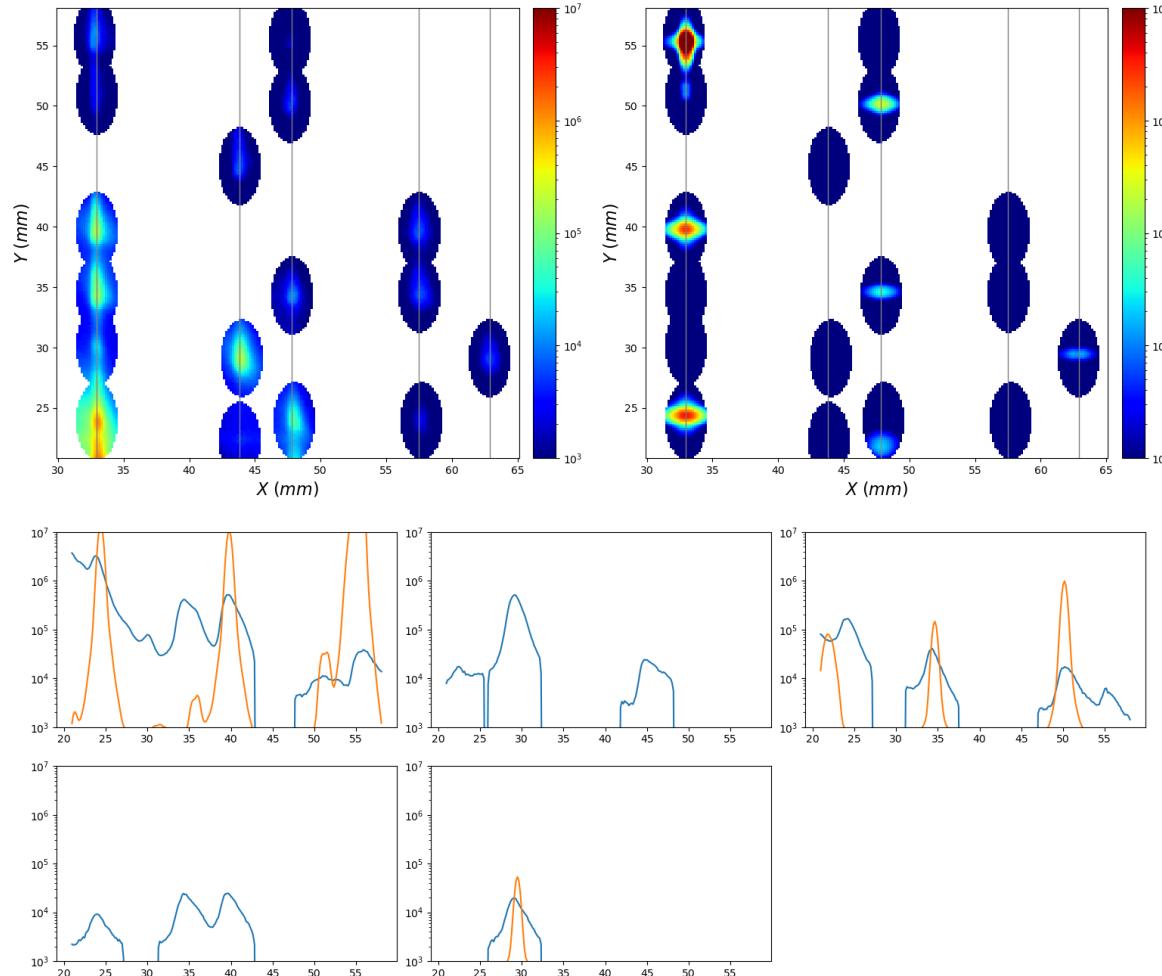
## Single meso, rotation\_z

```
{
  "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": 56.9
}
```



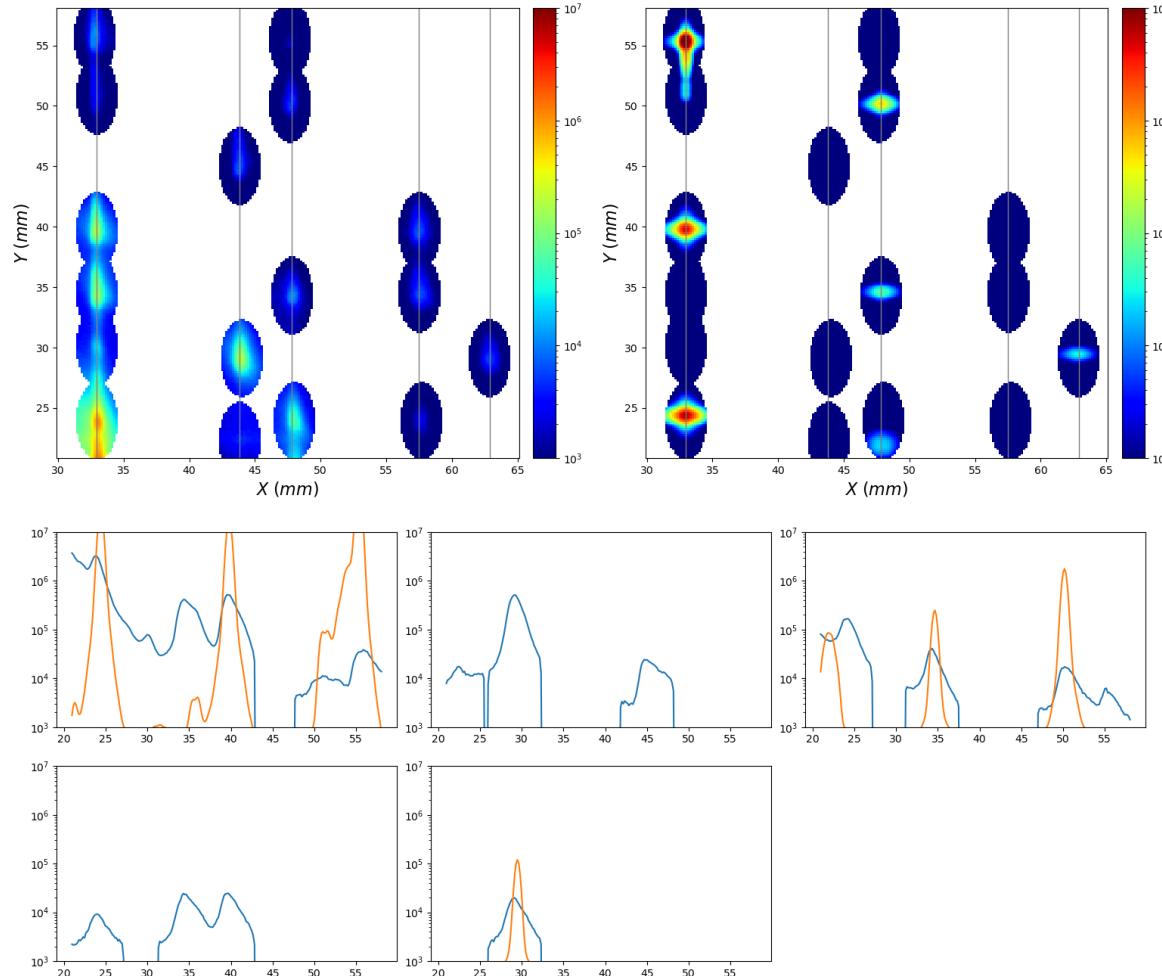
## Single meso, rotation\_z

```
{
  "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": 57.1
}
```



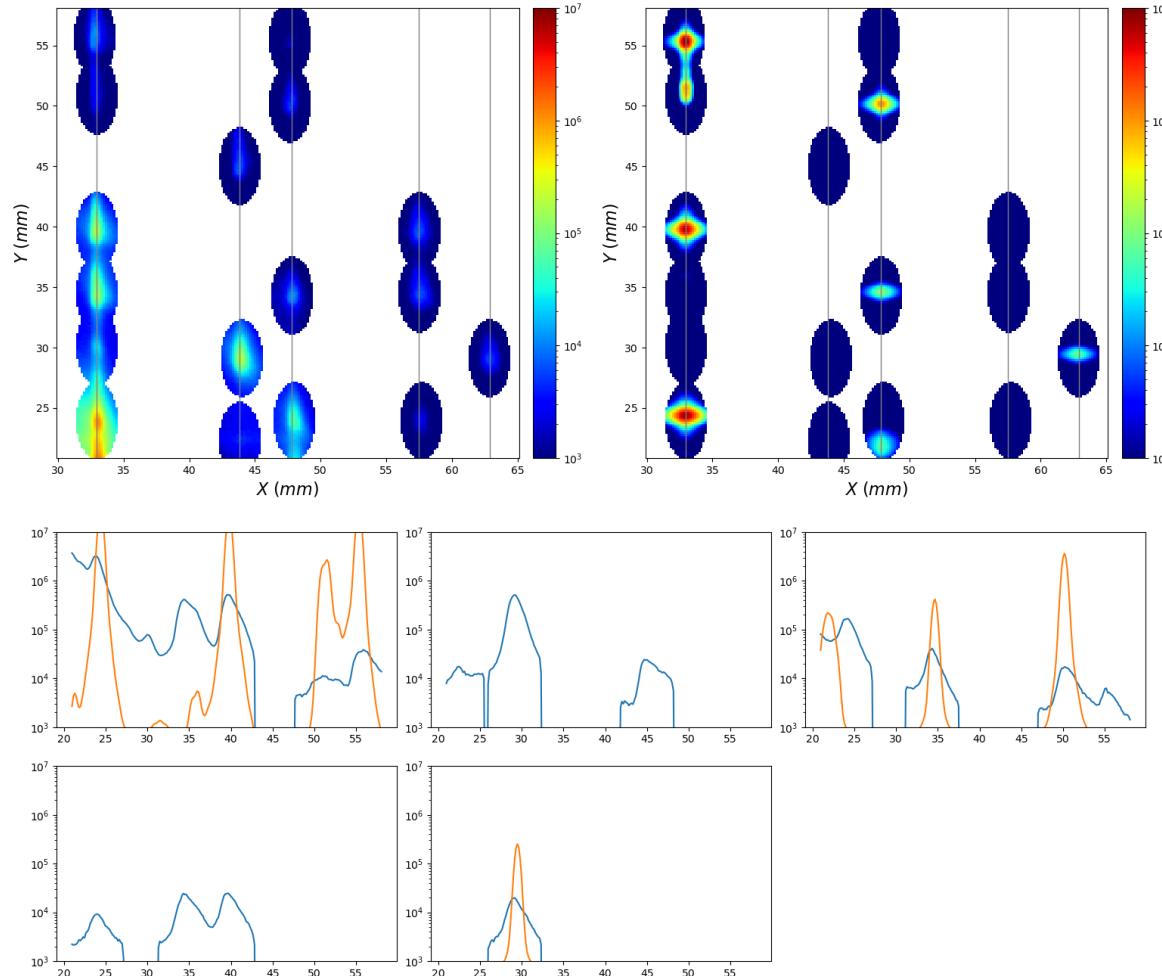
## Single meso, rotation\_z

```
{
  "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": 57.3
}
```



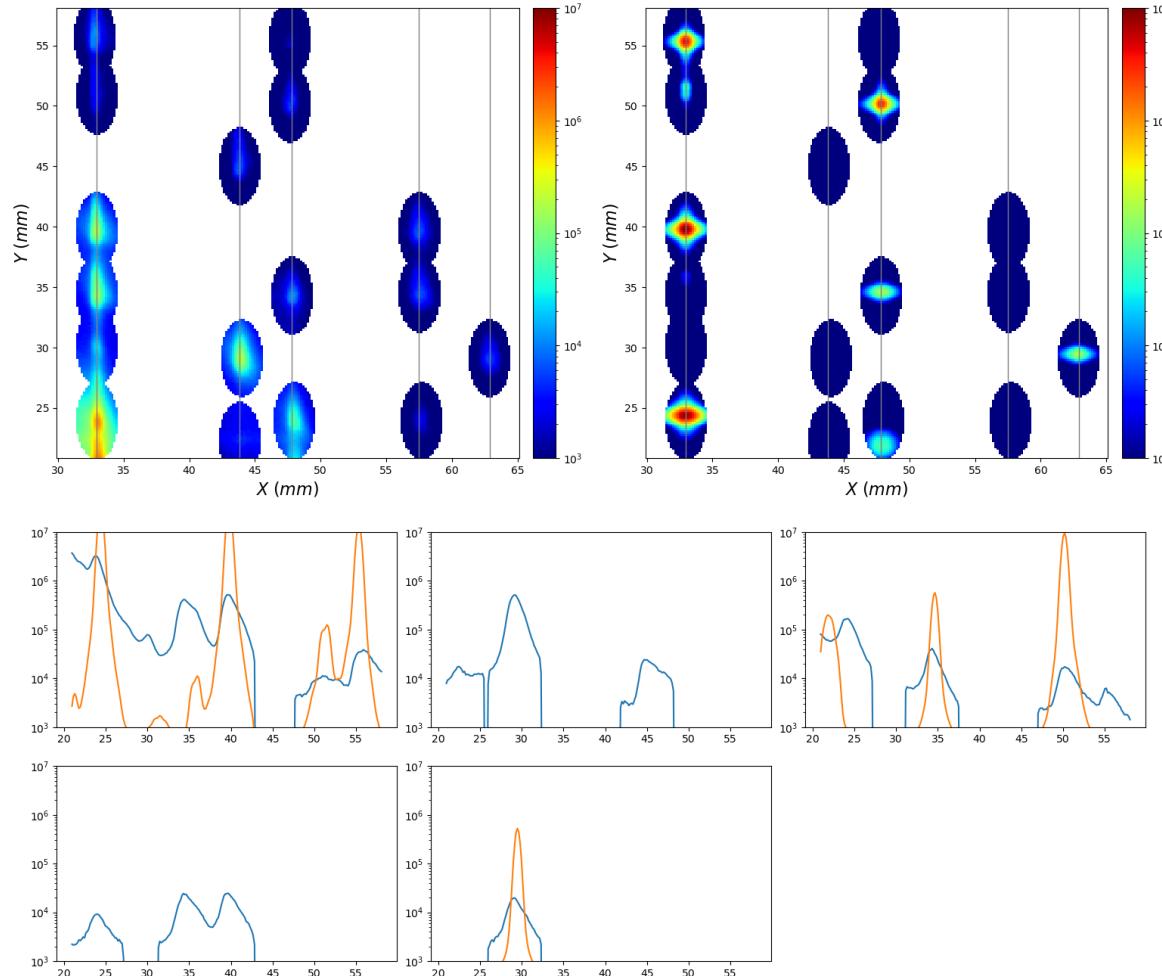
## Single meso, rotation\_z

```
{
  "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": 57.5
}
```



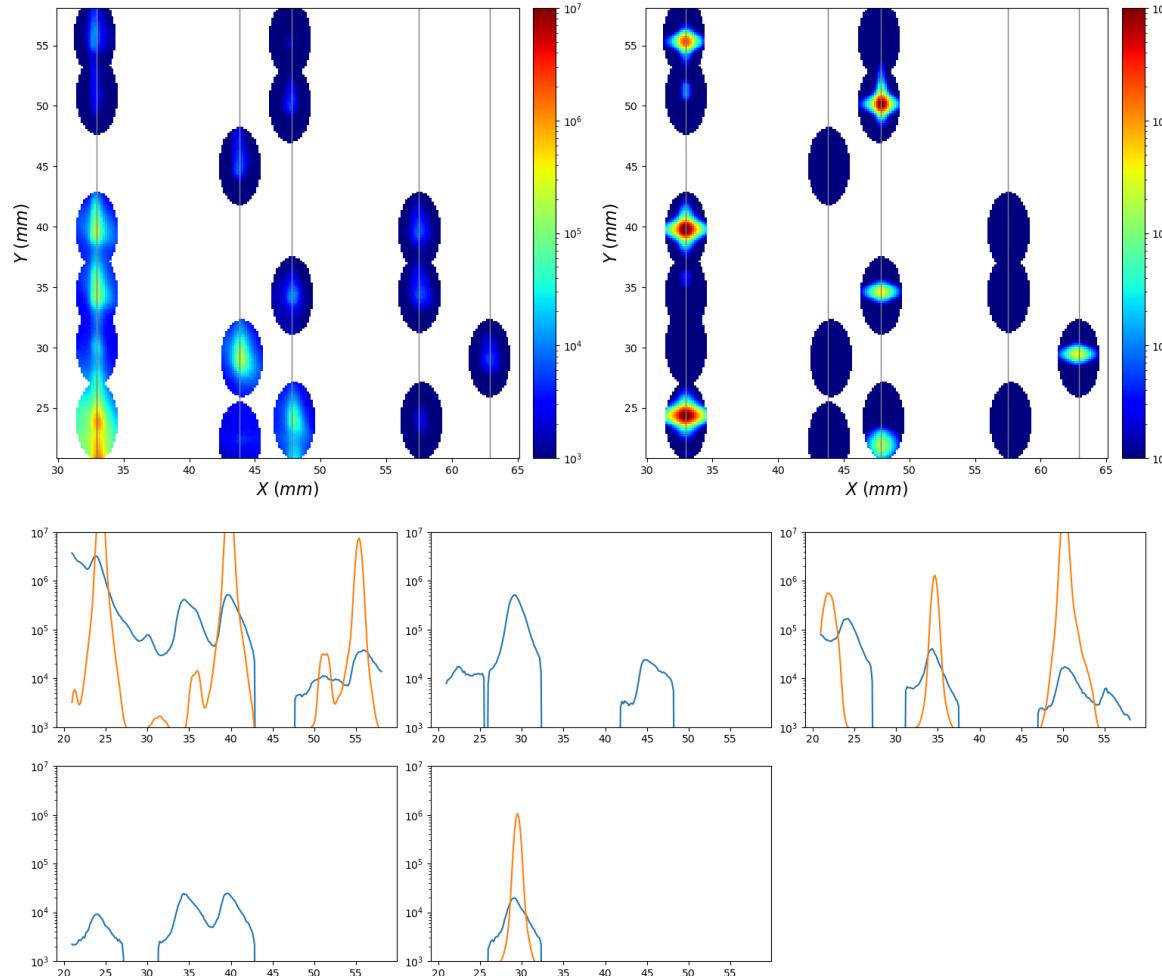
## Single meso, rotation\_z

```
{
  "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": 57.7
}
```



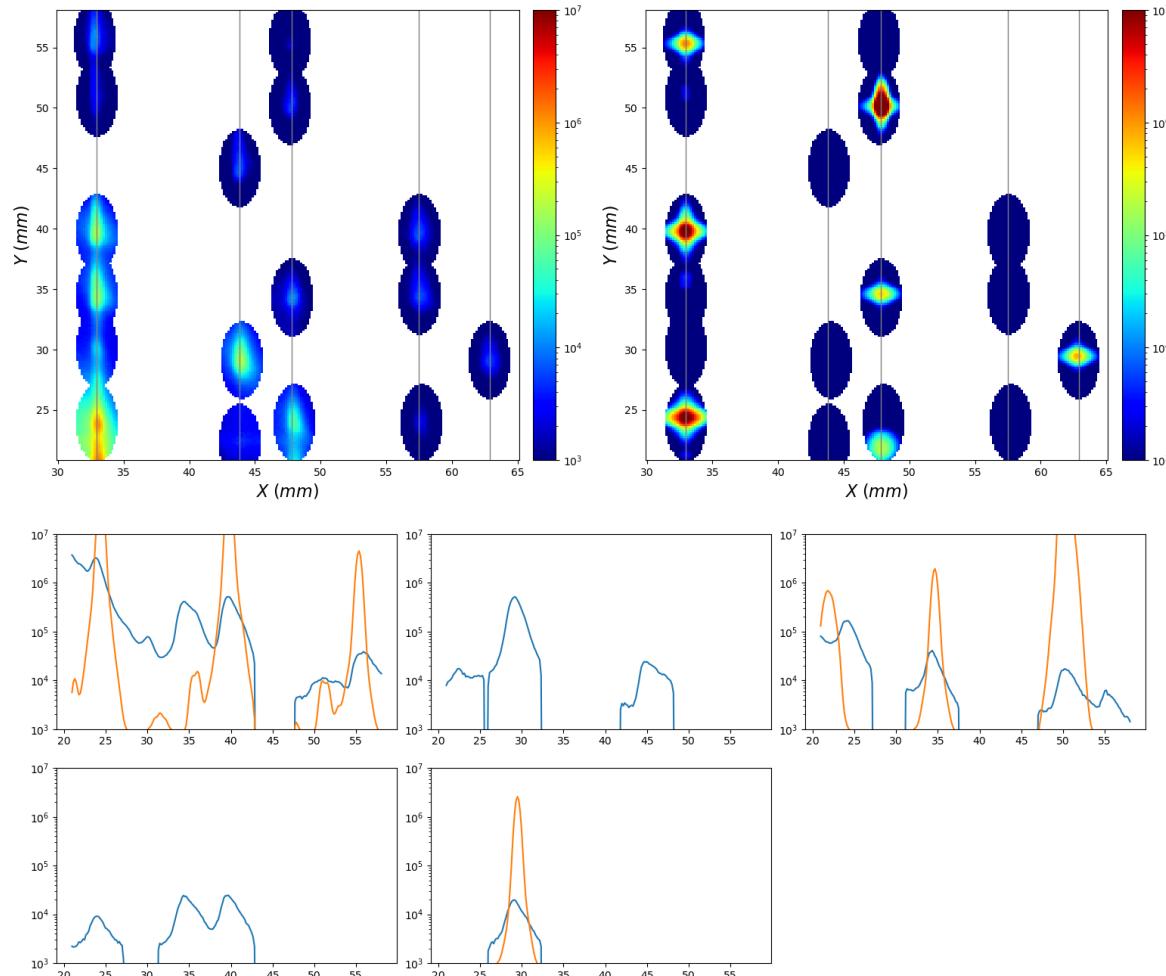
## Single meso, rotation\_z

```
{
  "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": 57.9
}
```



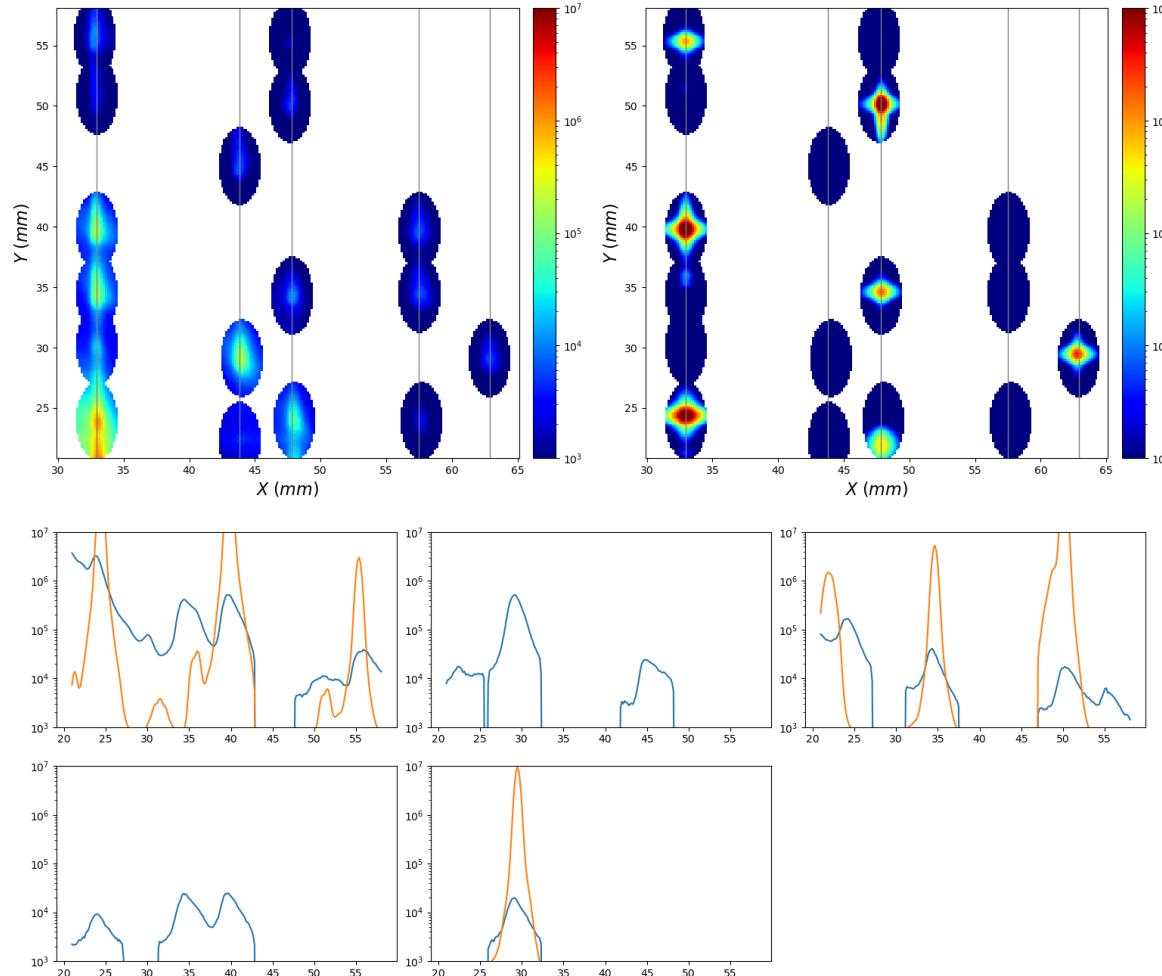
## Single meso, rotation\_z

```
{
  "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": 58.1
}
```



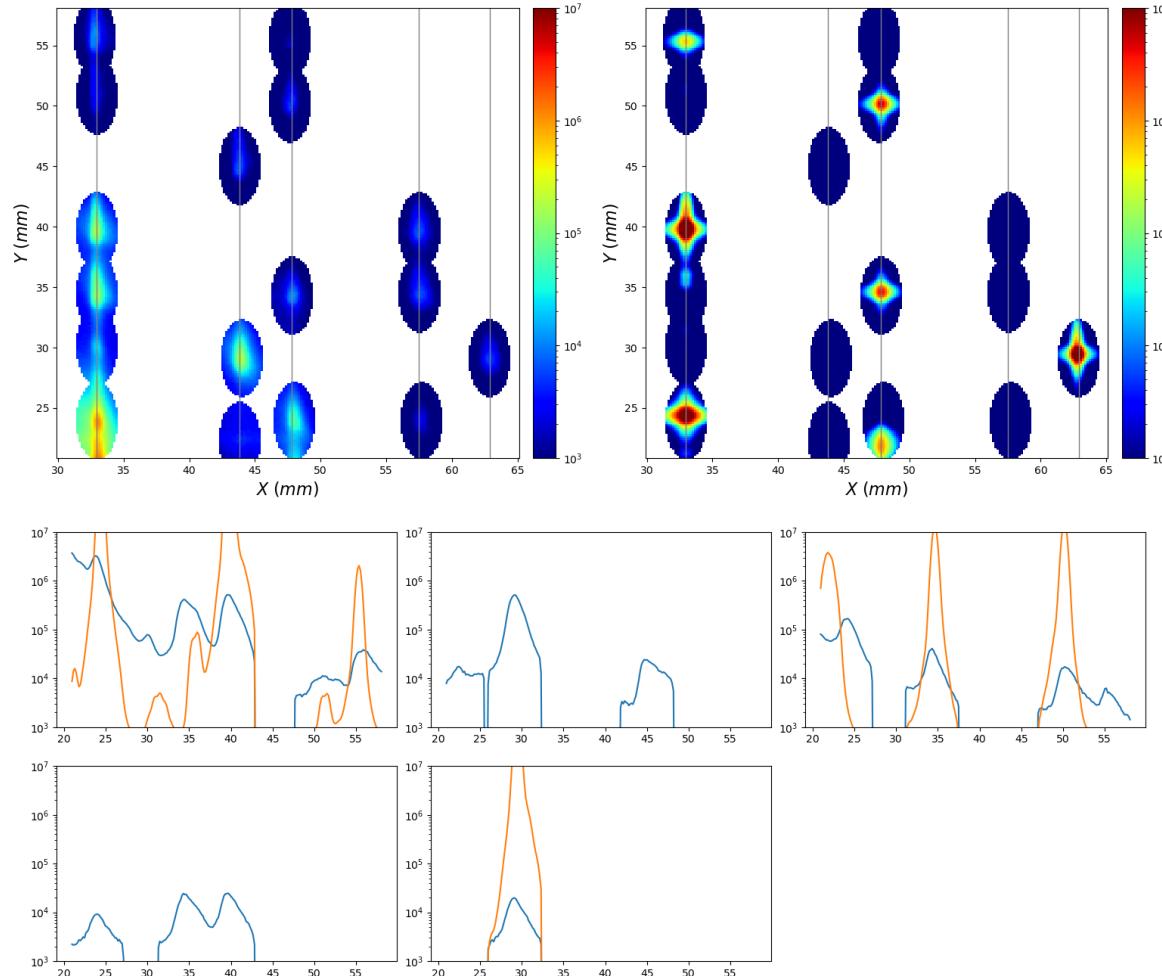
## Single meso, rotation\_z

```
{
  "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": 58.3
}
```



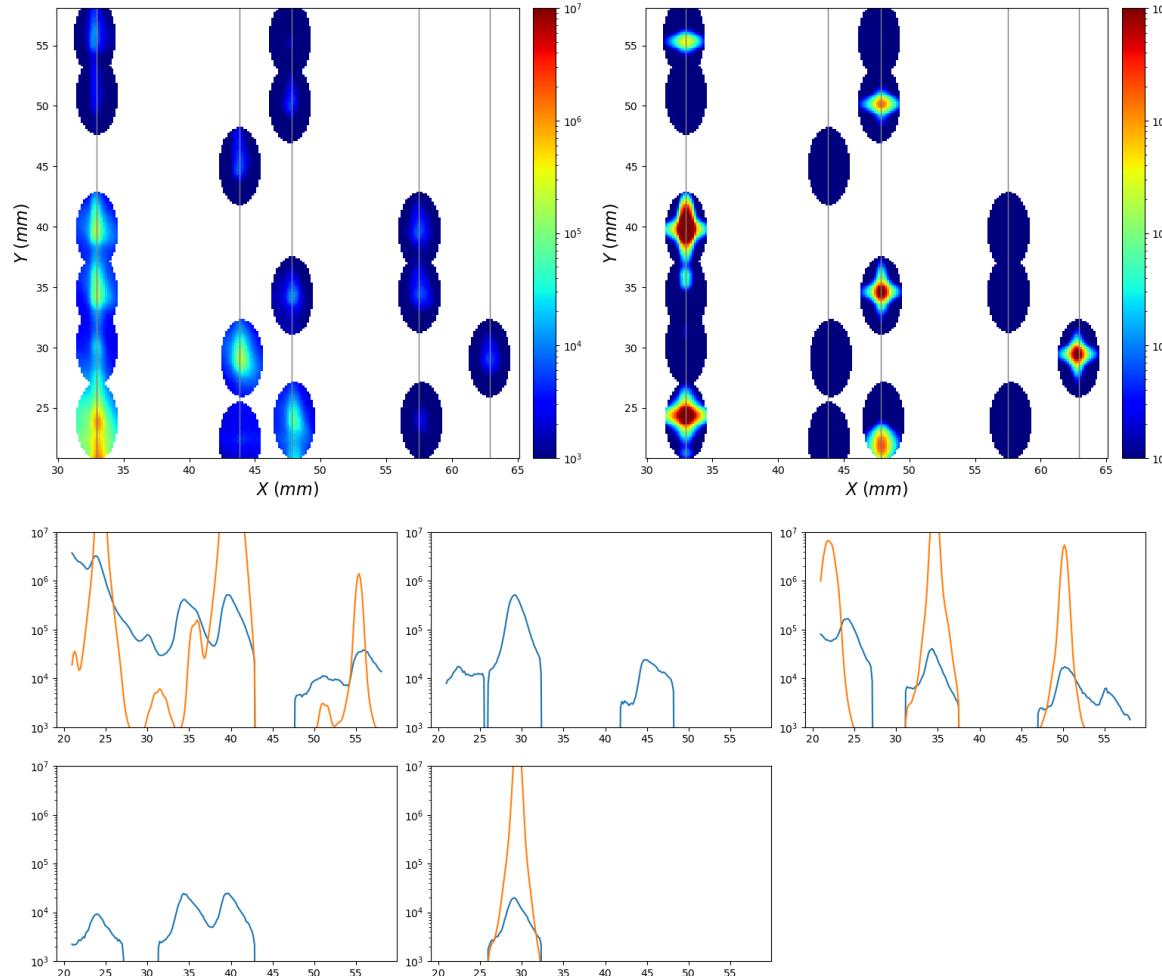
## Single meso, rotation\_z

```
{
  "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": 58.5
}
```



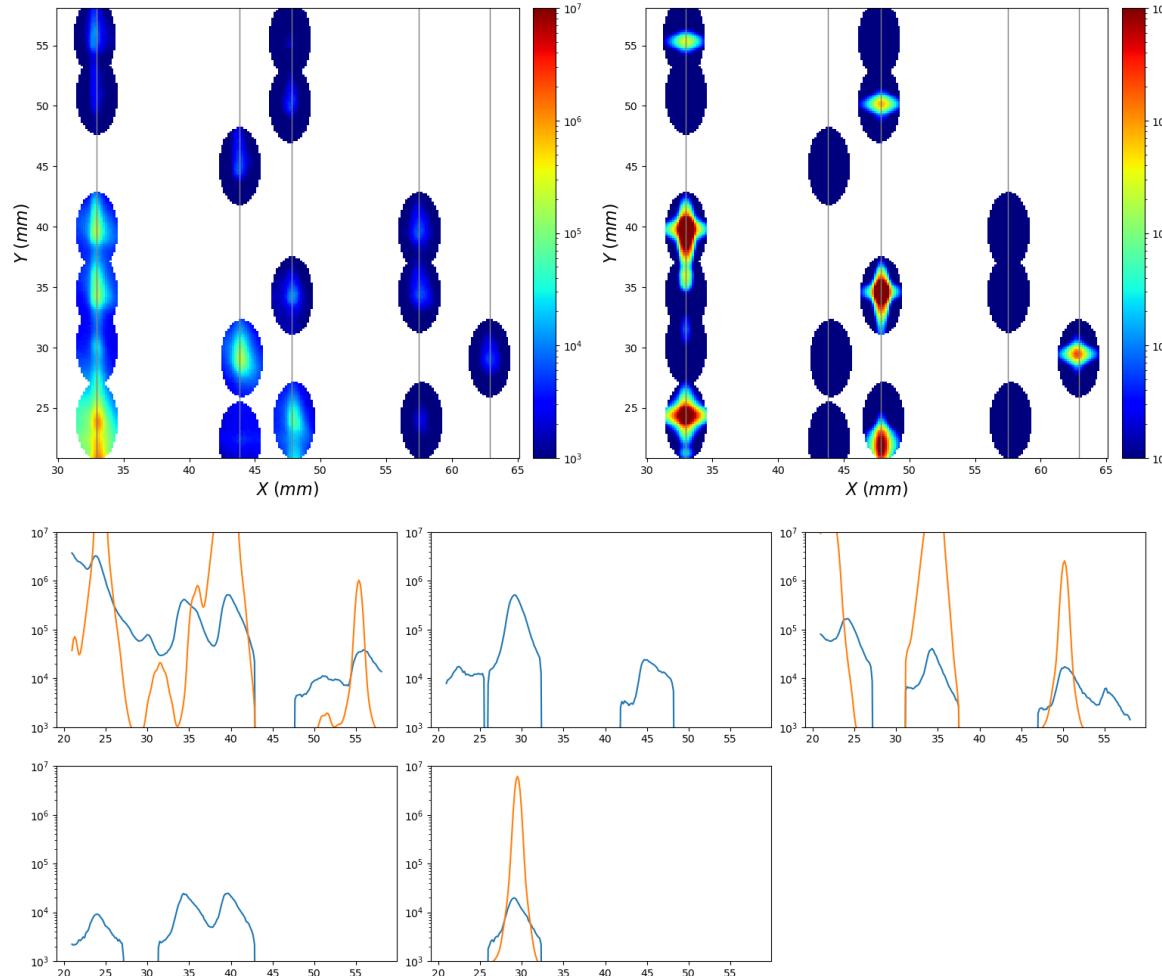
## Single meso, rotation\_z

```
{
  "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": 58.7
}
```



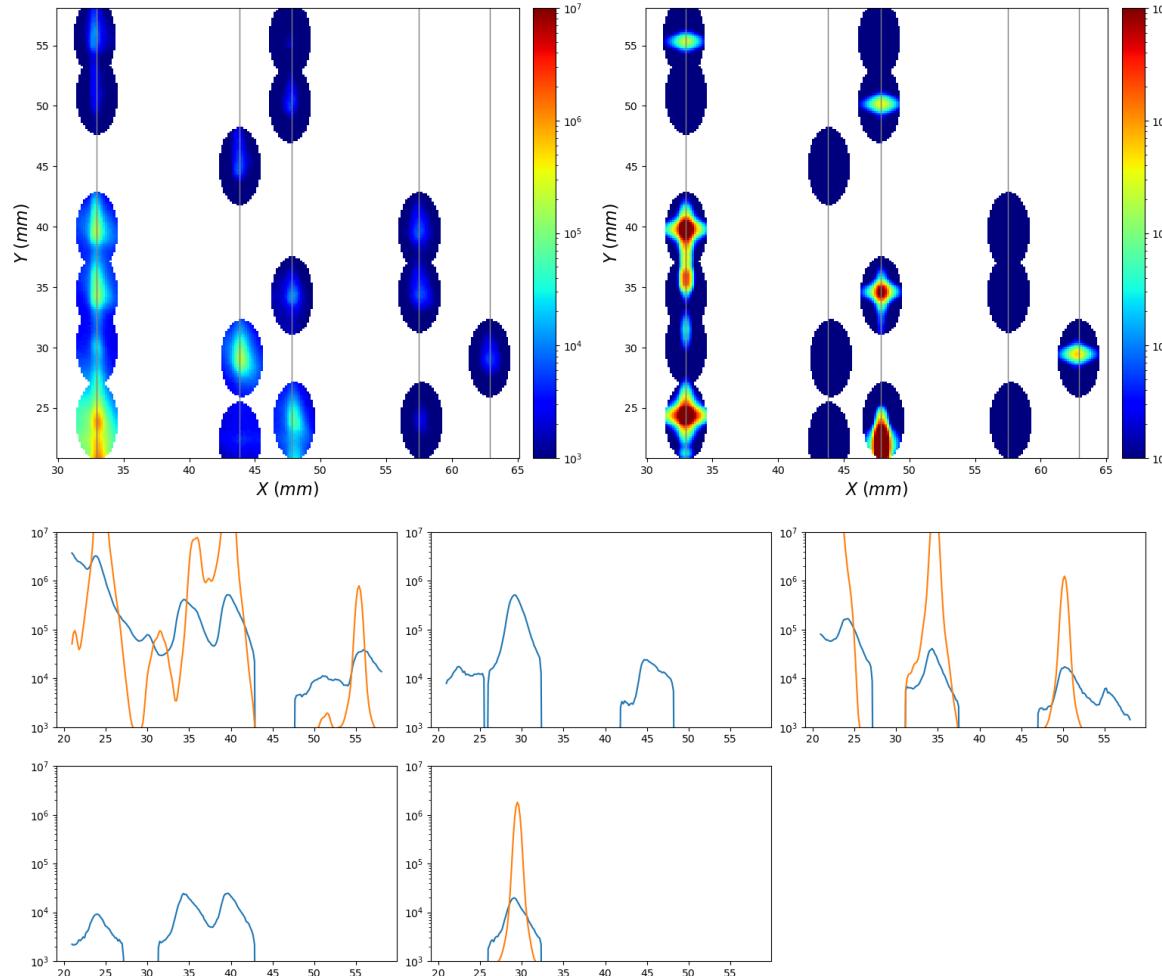
## Single meso, rotation\_z

```
{
  "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": 58.9
}
```



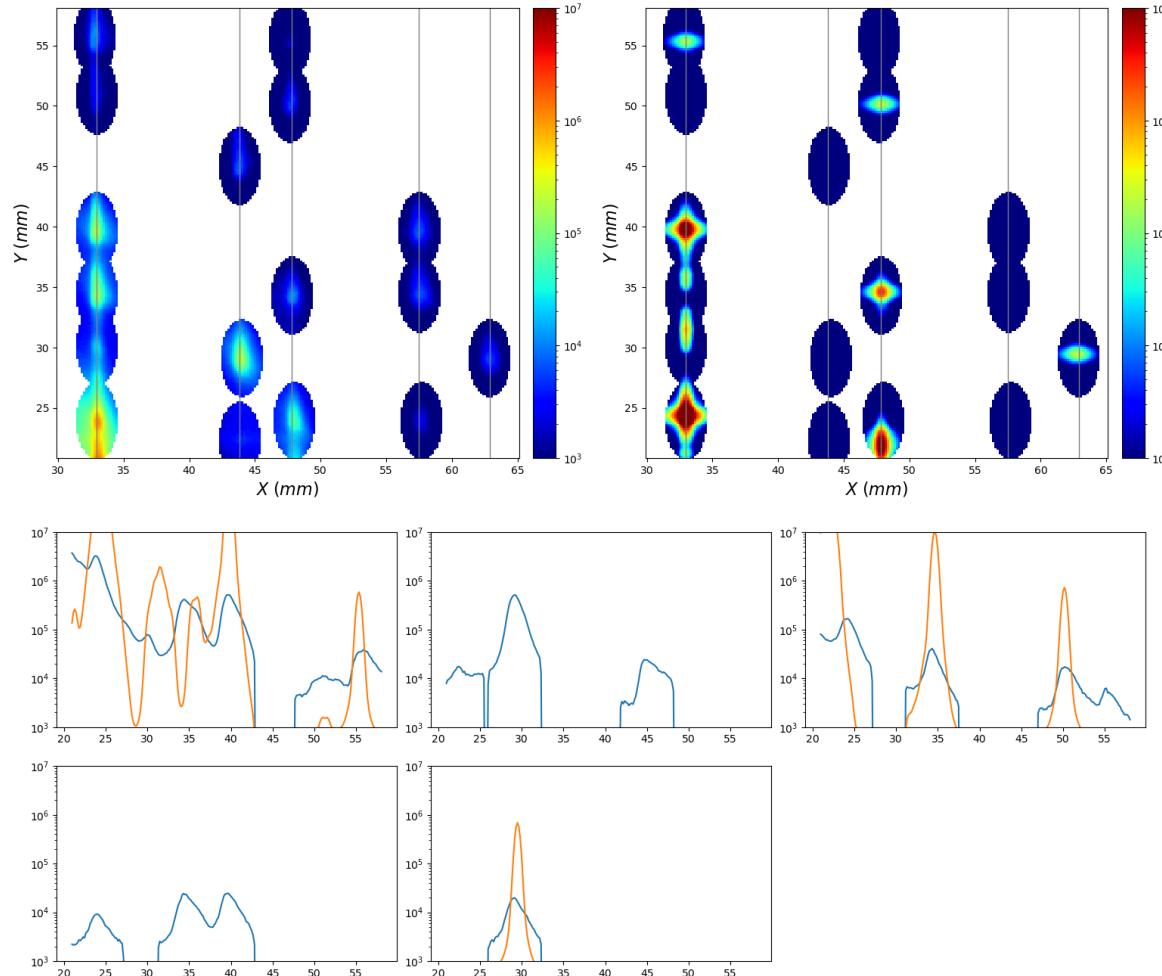
## Single meso, rotation\_z

```
{
  "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": 59.1
}
```



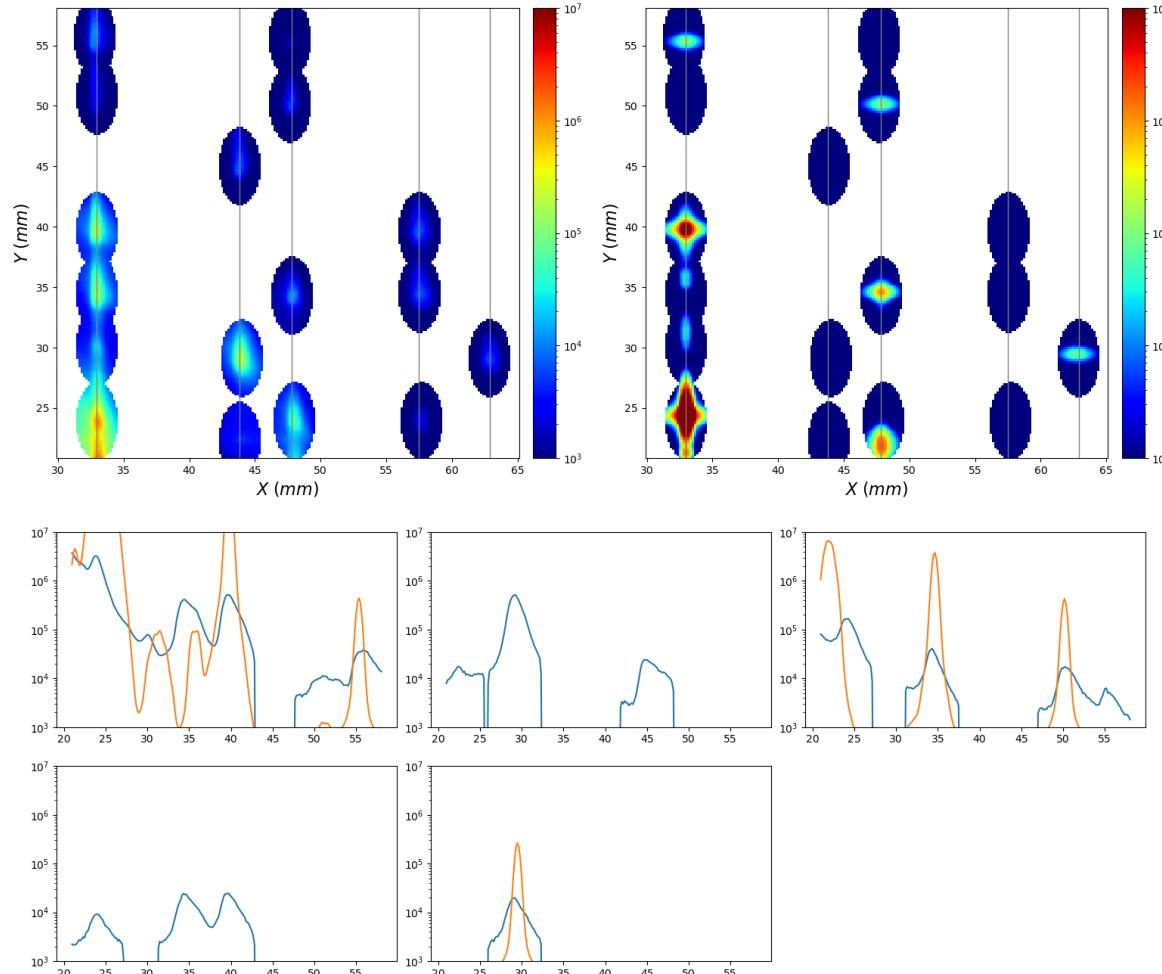
## Single meso, rotation\_z

```
{
  "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": 59.3
}
```



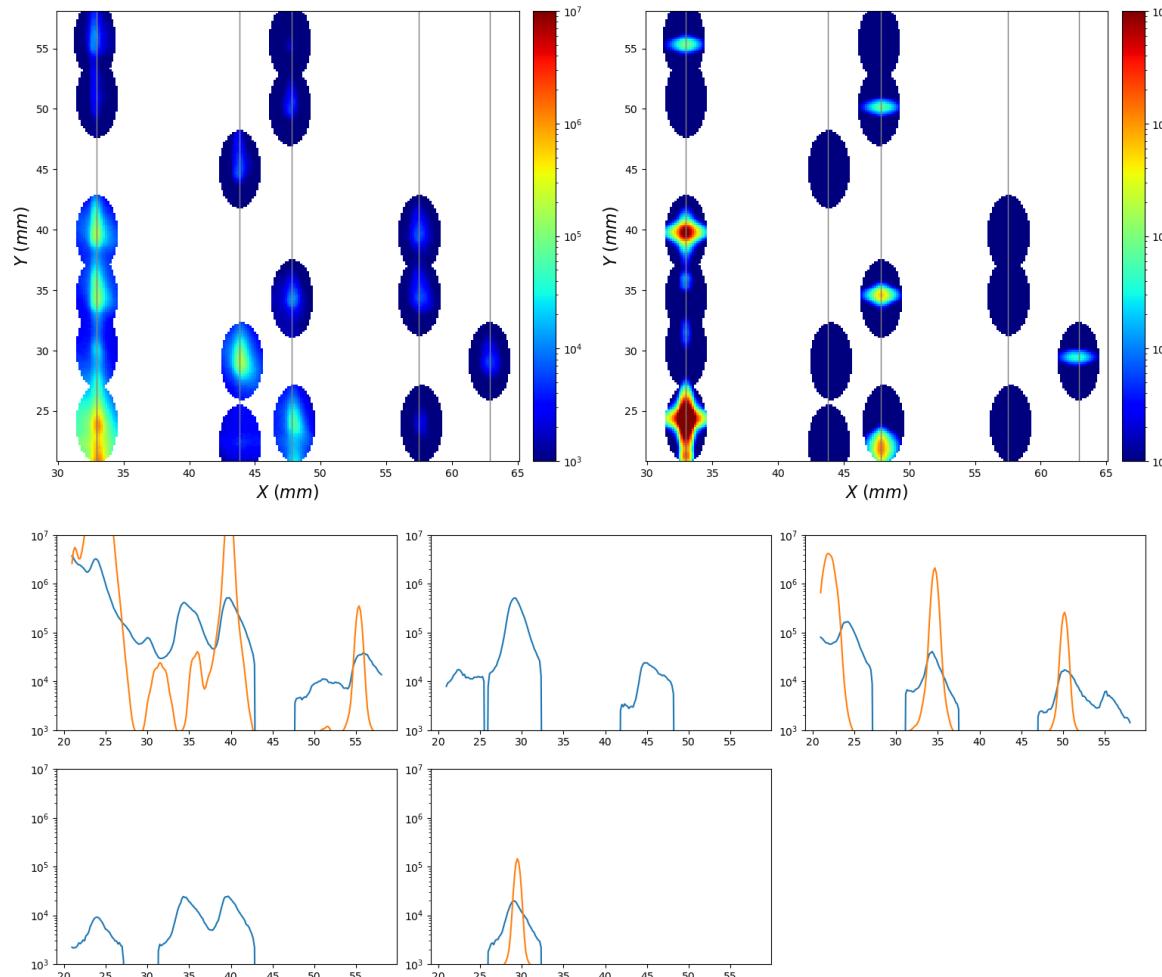
## Single meso, rotation\_z

```
{
  "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": 59.5
}
```



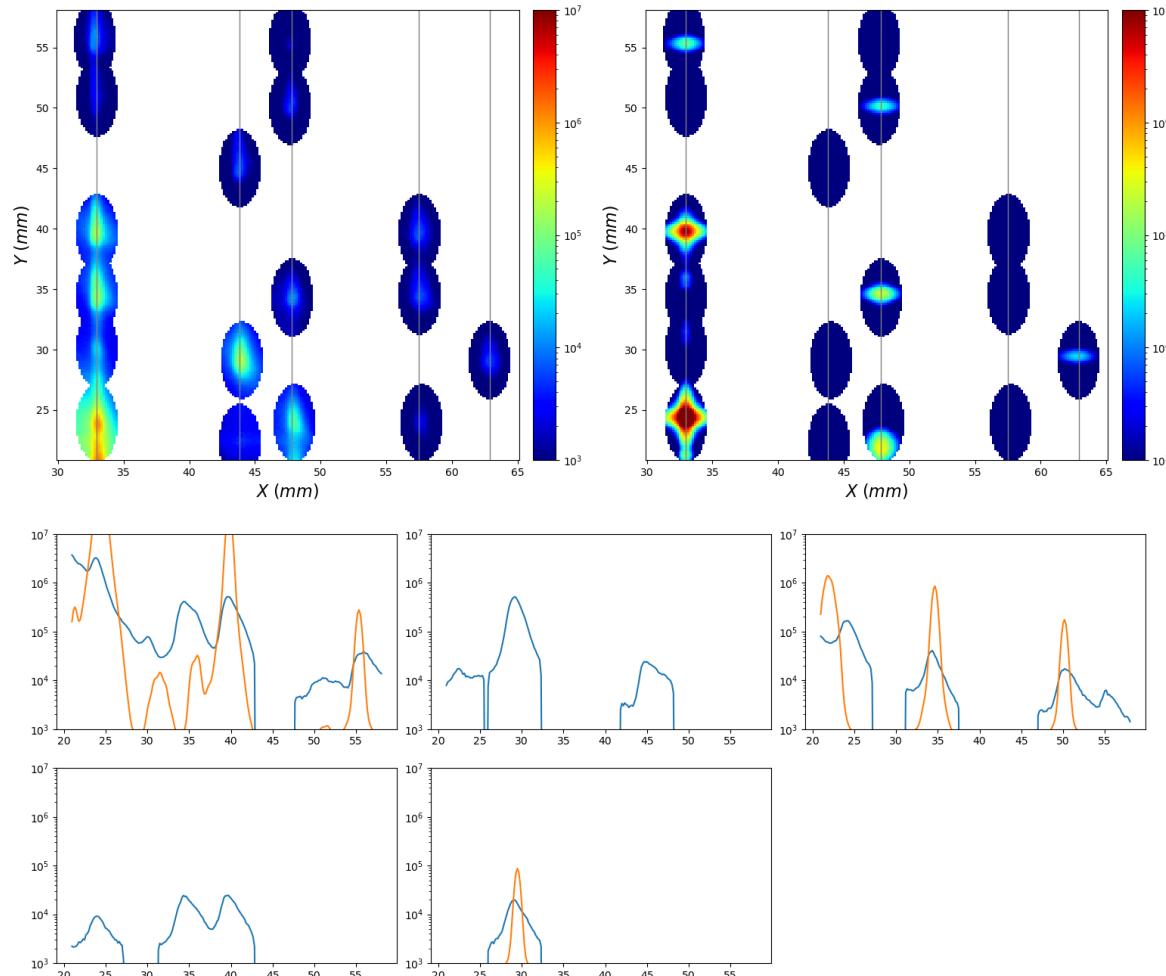
## Single meso, rotation\_z

```
{
  "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": 59.7
}
```



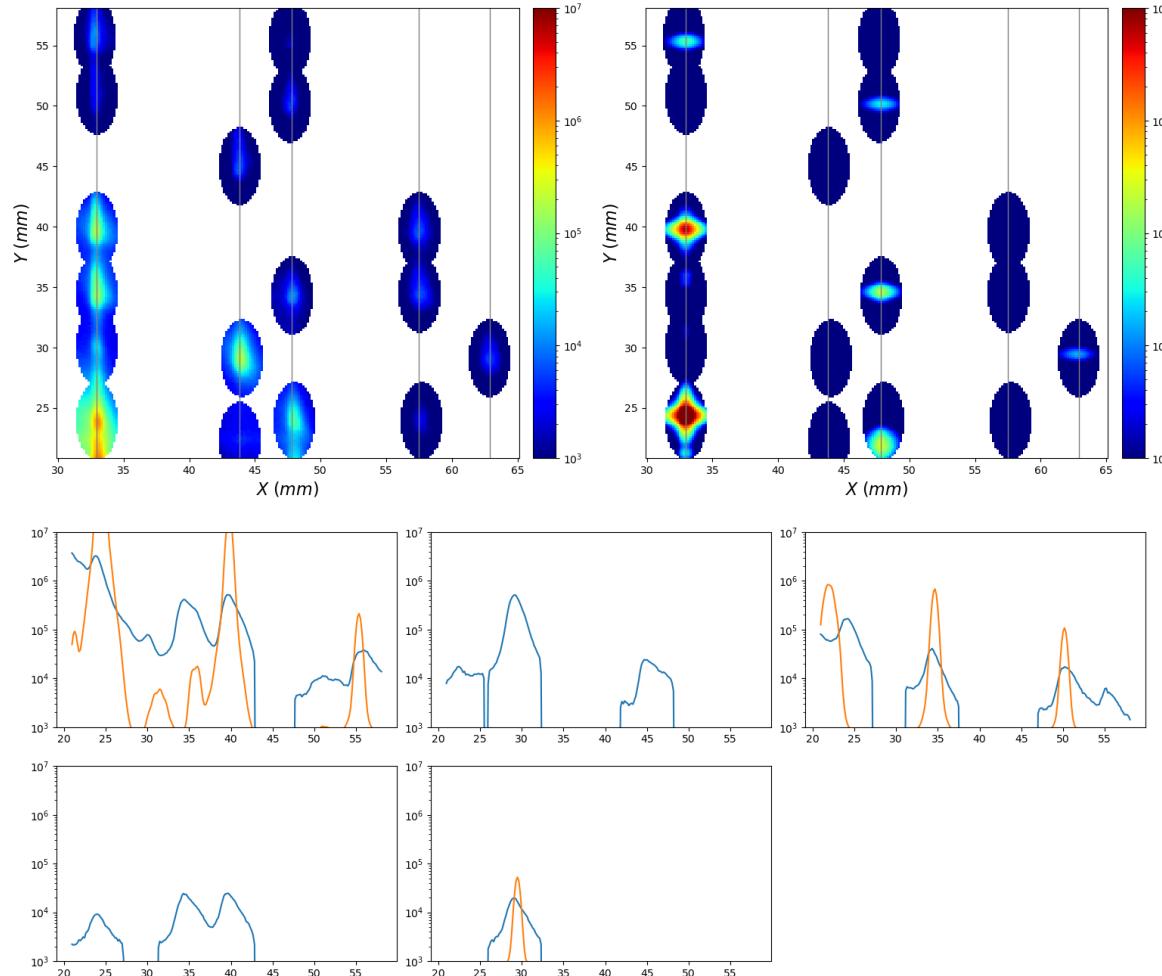
## Single meso, rotation\_z

```
{
  "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": 59.9
}
```



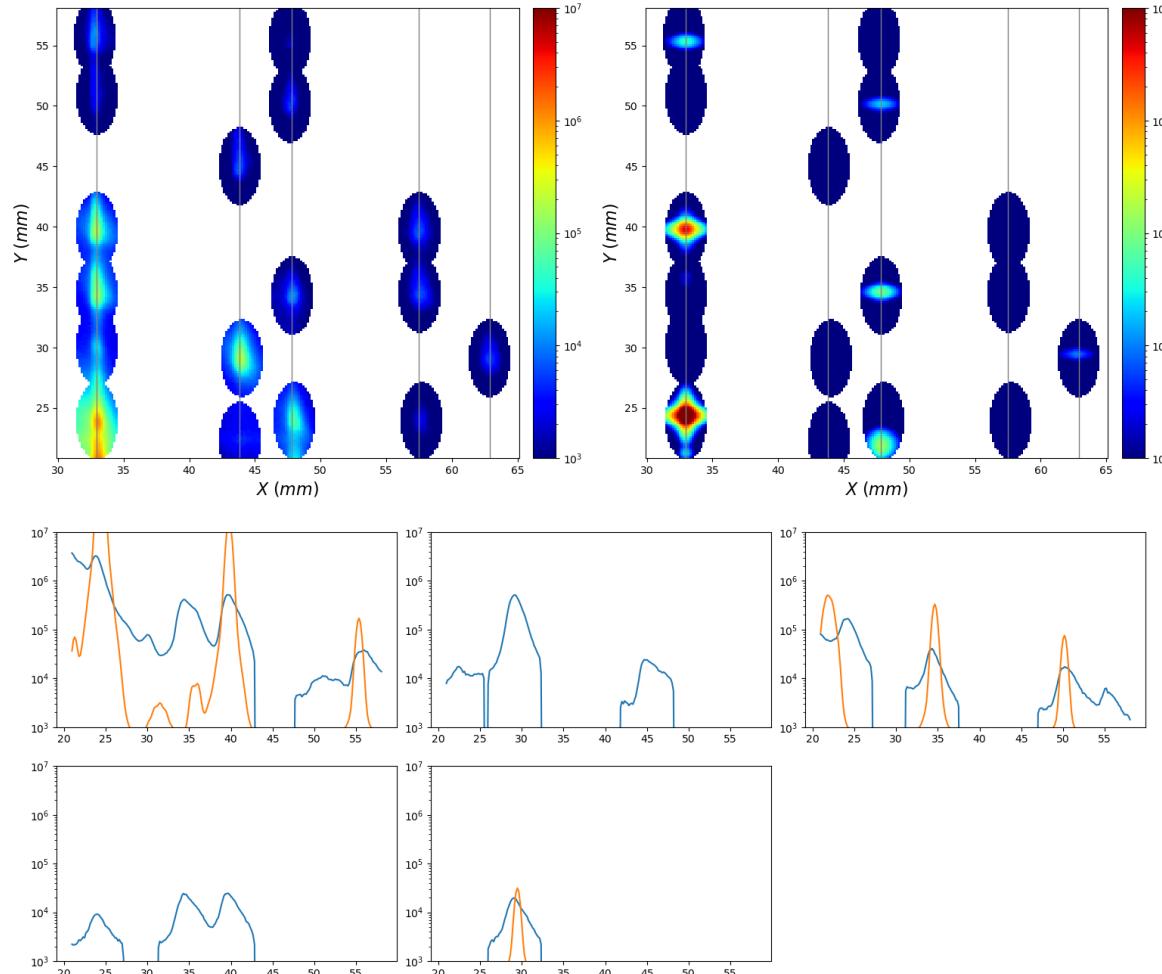
## Single meso, rotation\_z

```
{
  "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": 60.1
}
```



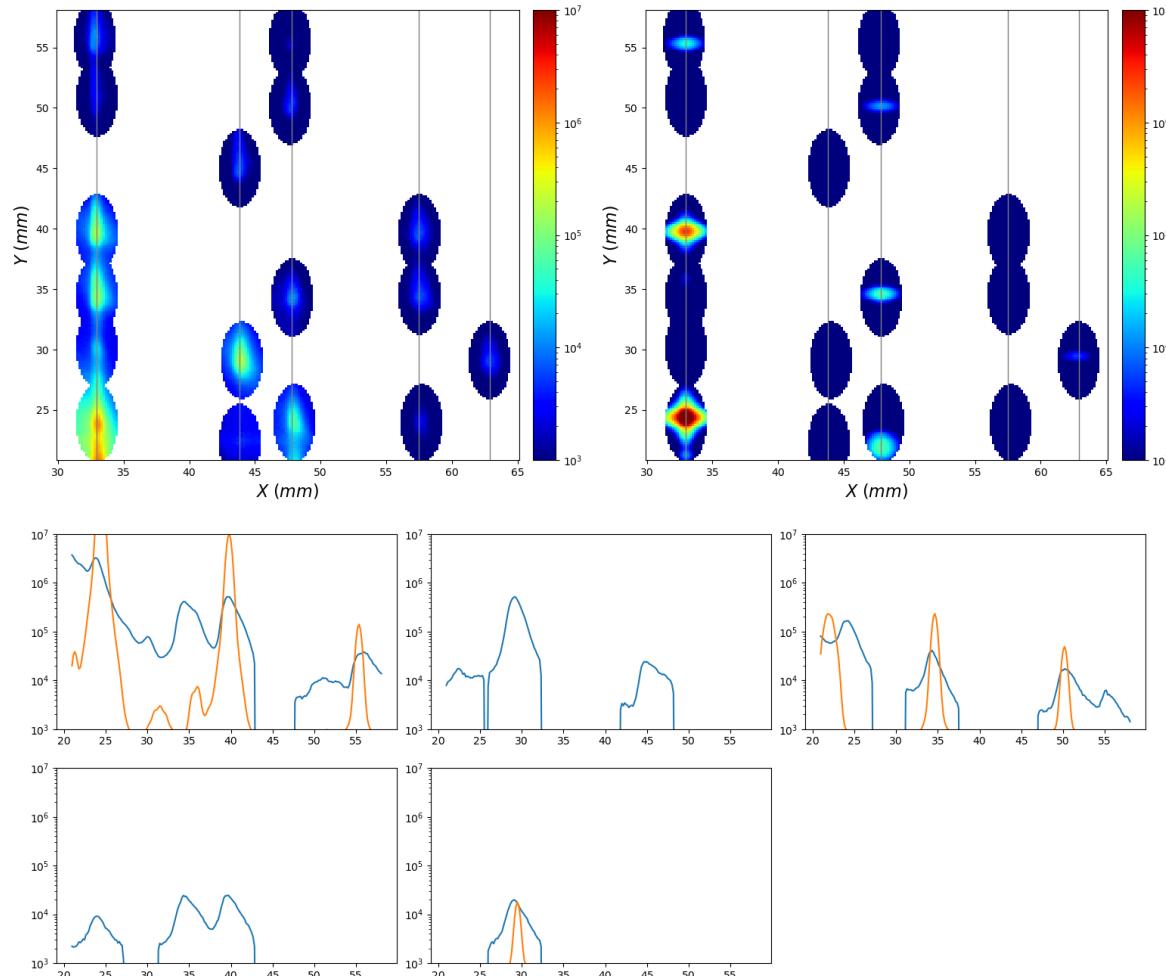
## Single meso, rotation\_z

```
{
  "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": 60.3
}
```



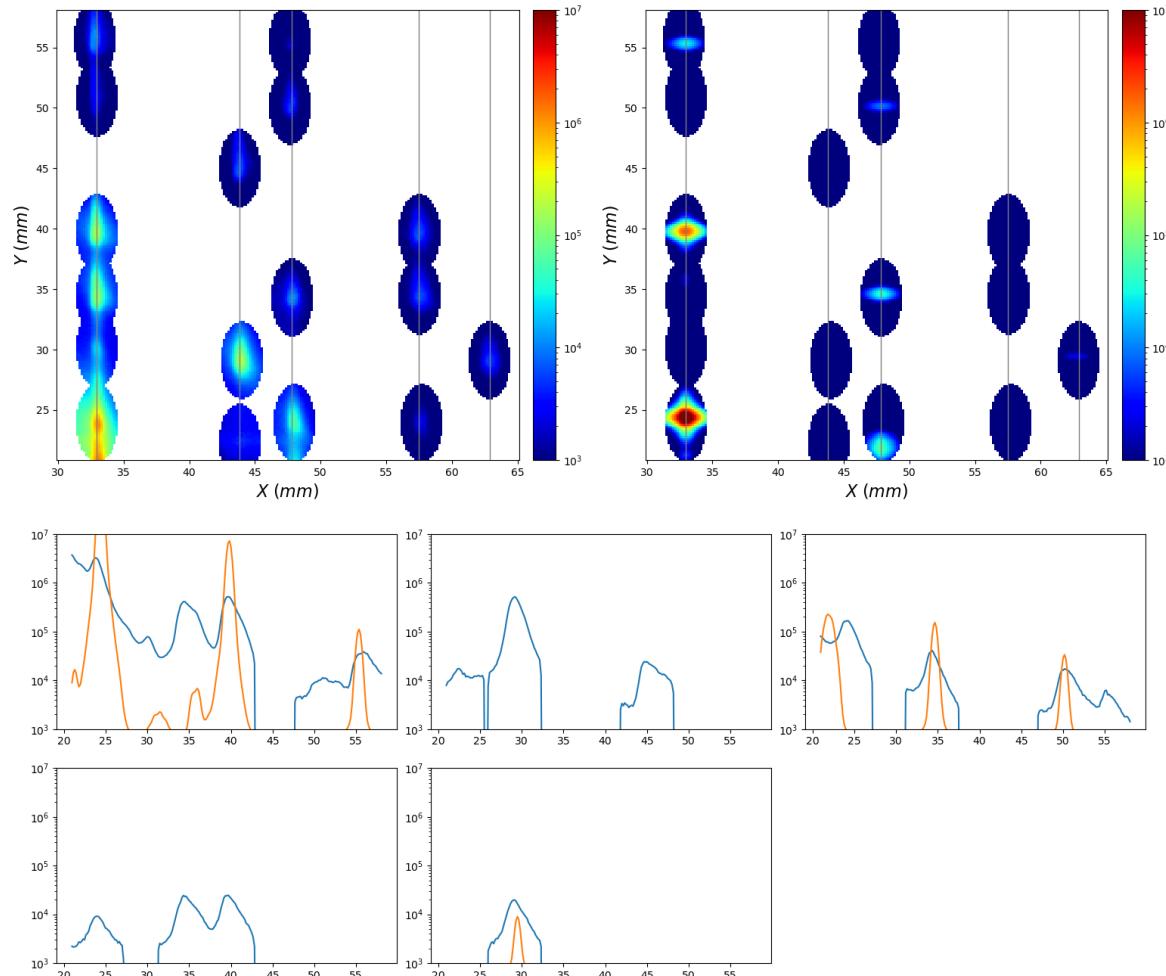
## Single meso, rotation\_z

```
{
  "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": 60.5
}
```



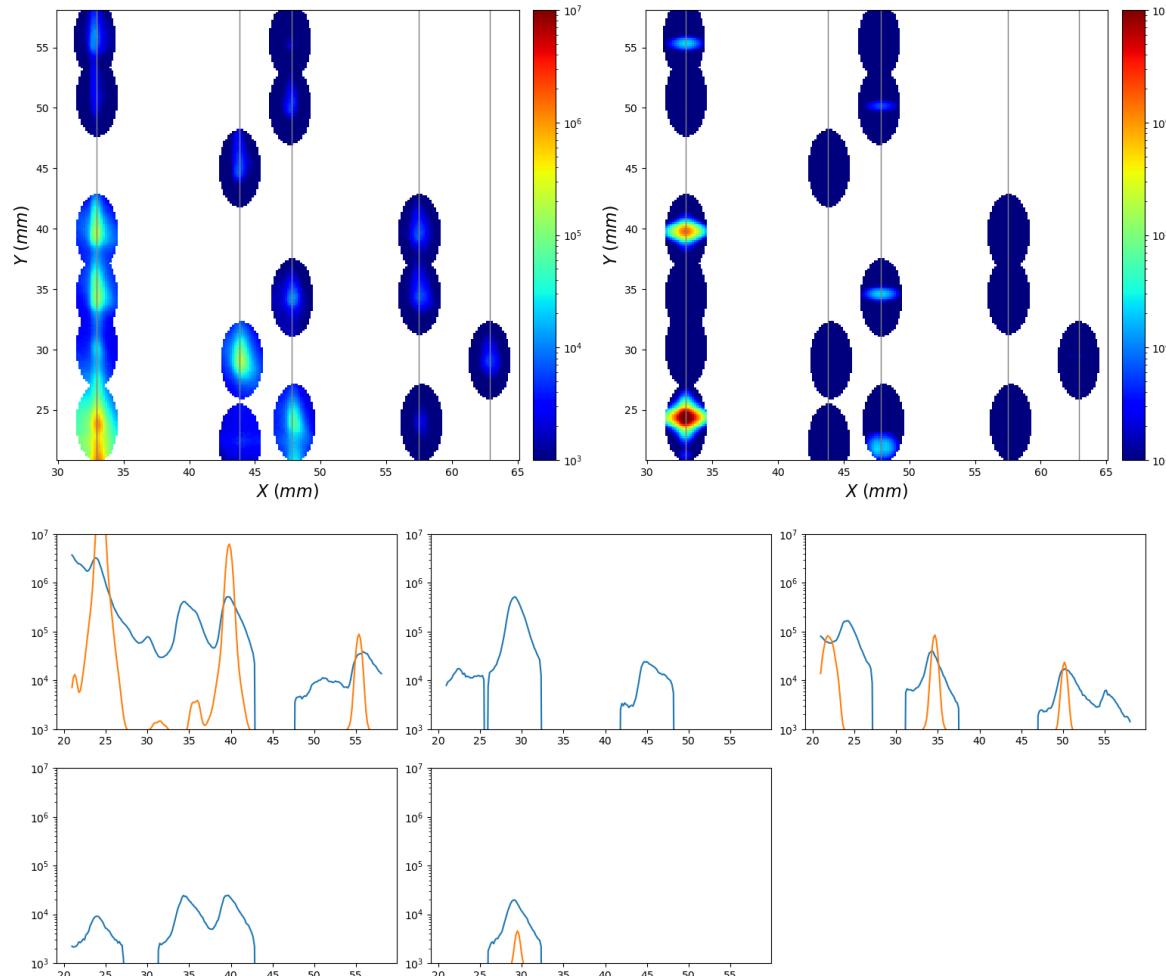
## Single meso, rotation\_z

```
{
  "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": 60.7
}
```



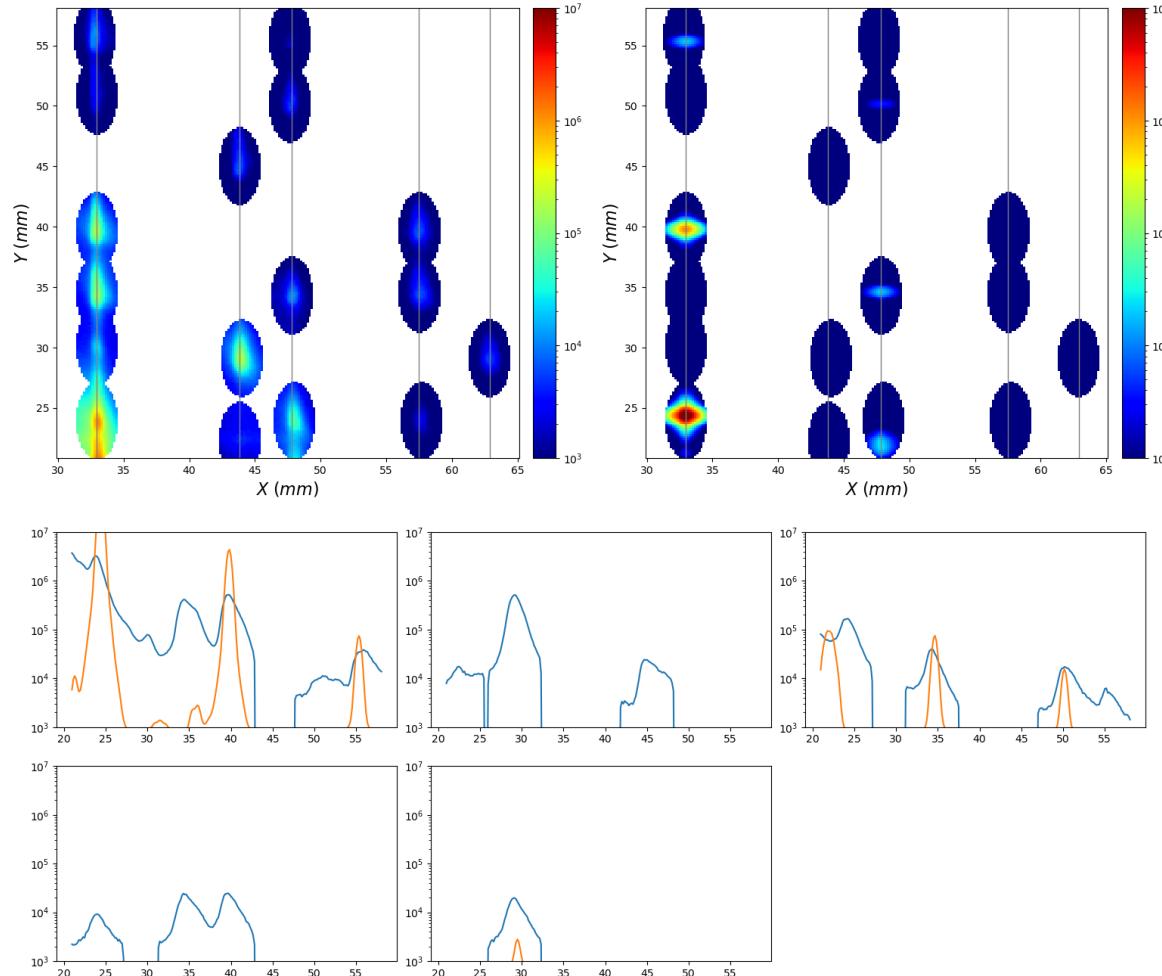
## Single meso, rotation\_z

```
{
  "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": 60.9
}
```



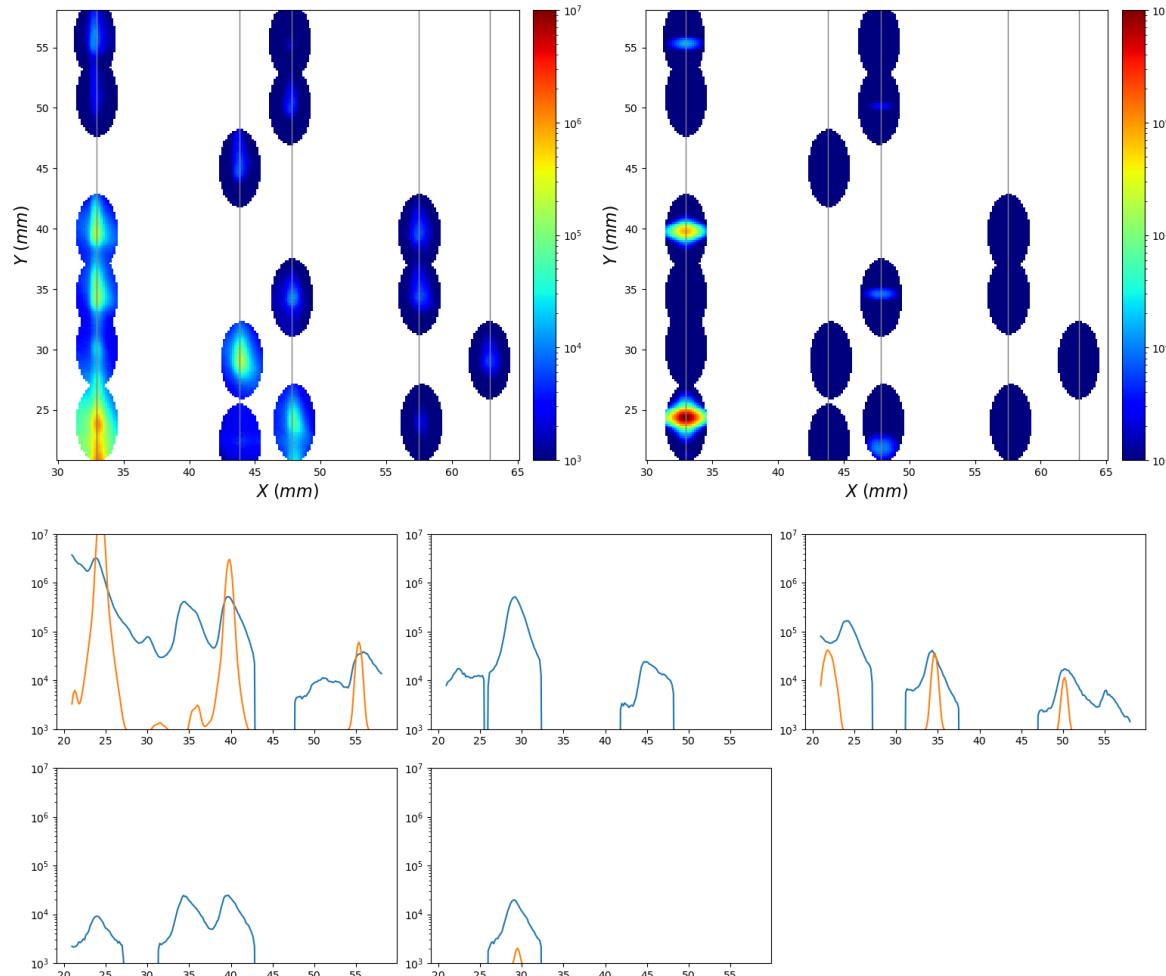
## Single meso, rotation\_z

```
{
  "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": 61.1
}
```



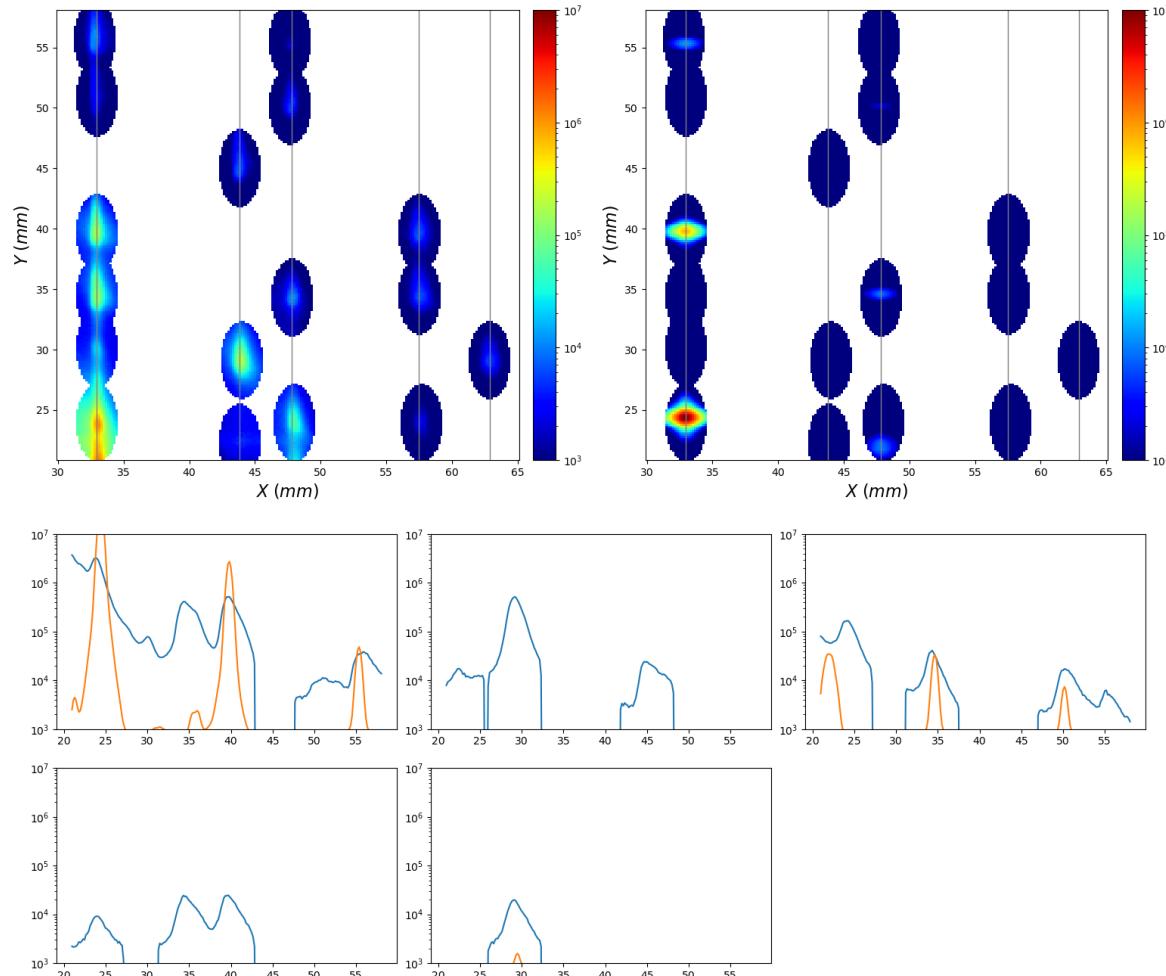
## Single meso, rotation\_z

```
{
  "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": 61.3
}
```



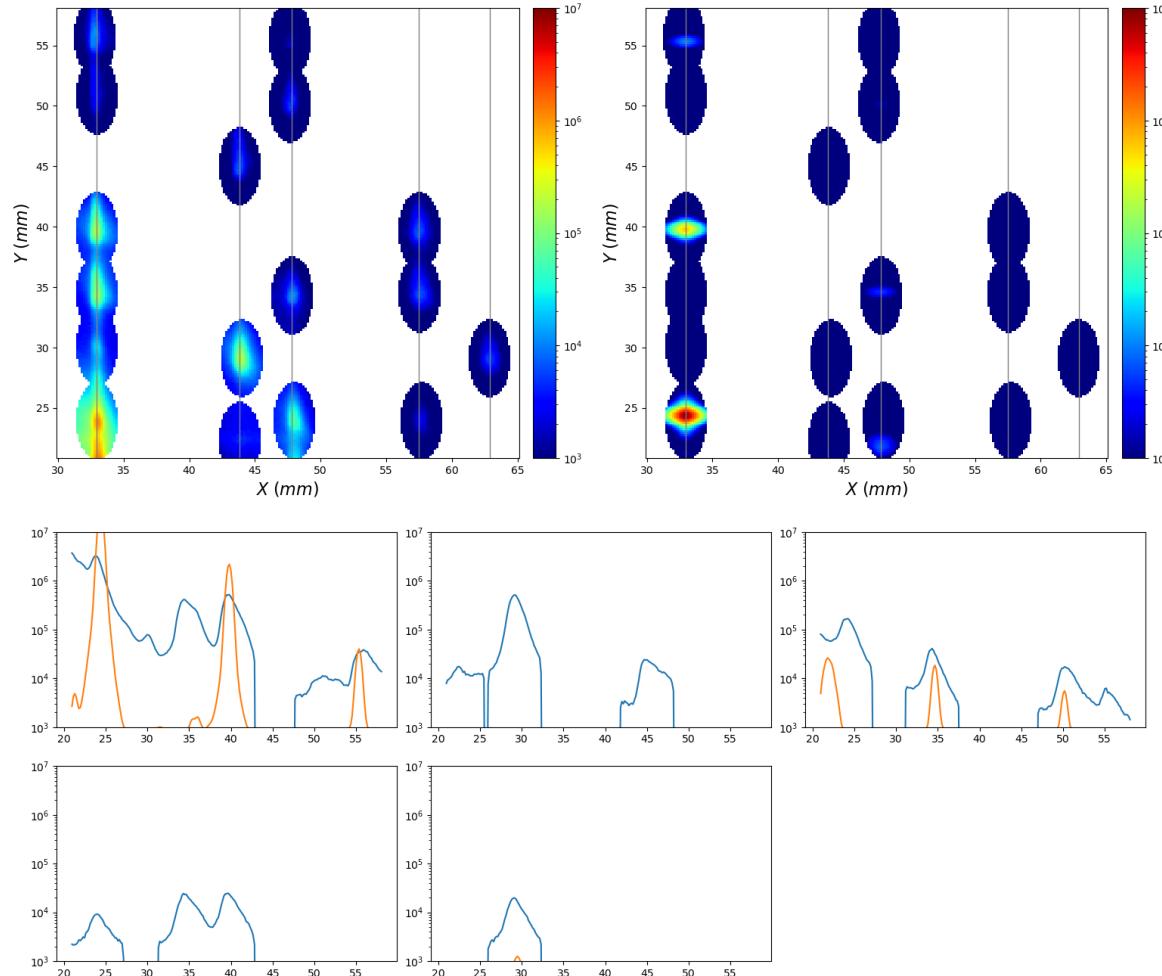
## Single meso, rotation\_z

```
{
  "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": 61.5
}
```



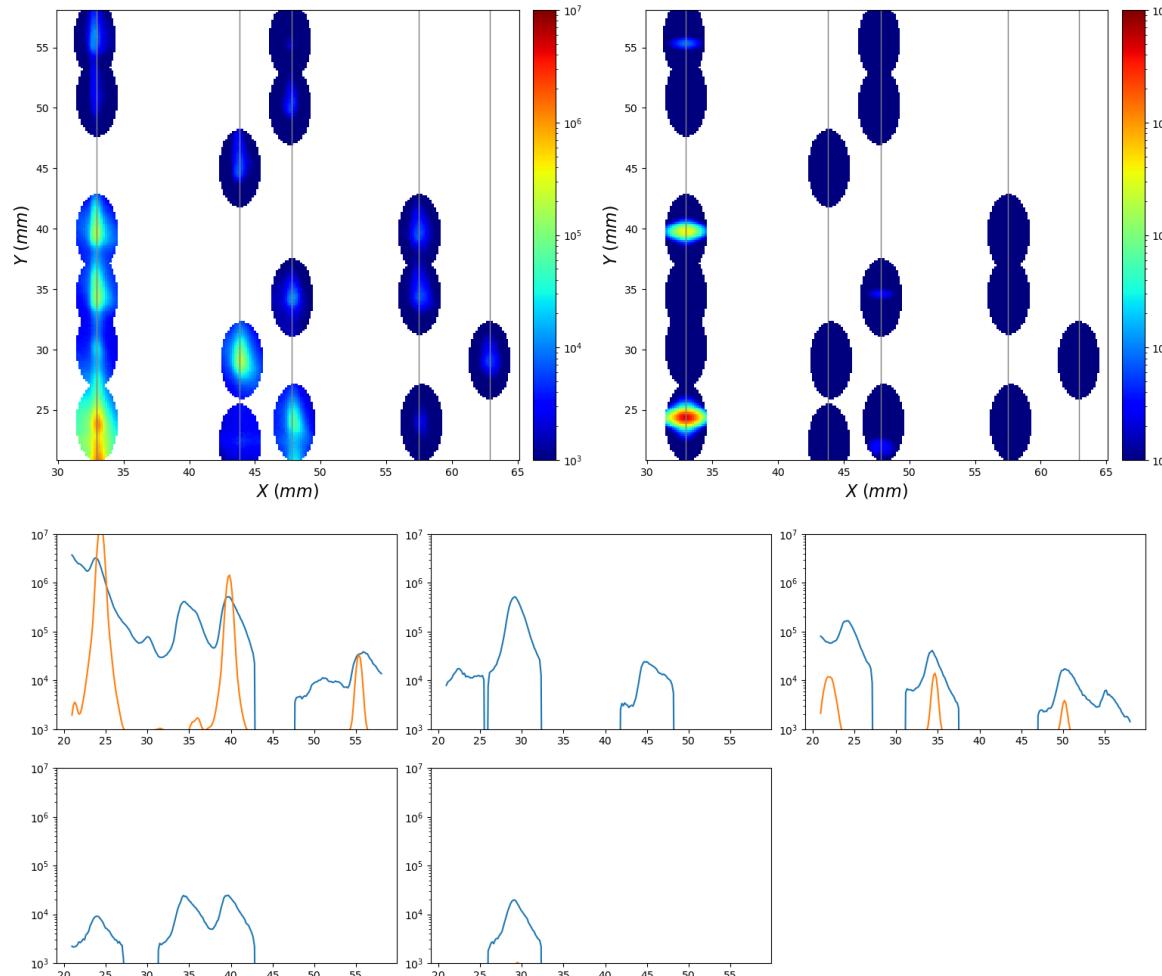
## Single meso, rotation\_z

```
{
  "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": 61.7
}
```



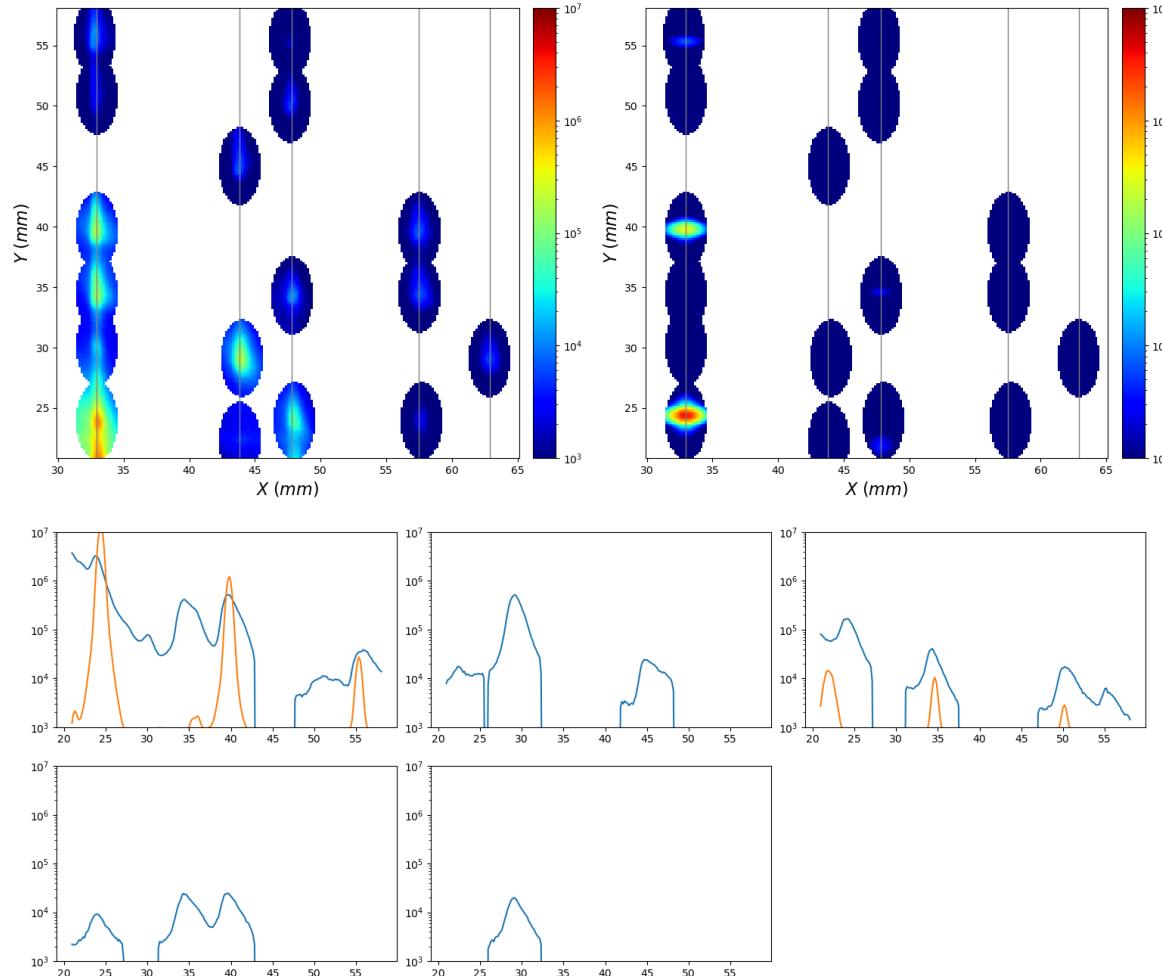
## Single meso, rotation\_z

```
{
  "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": 61.9
}
```



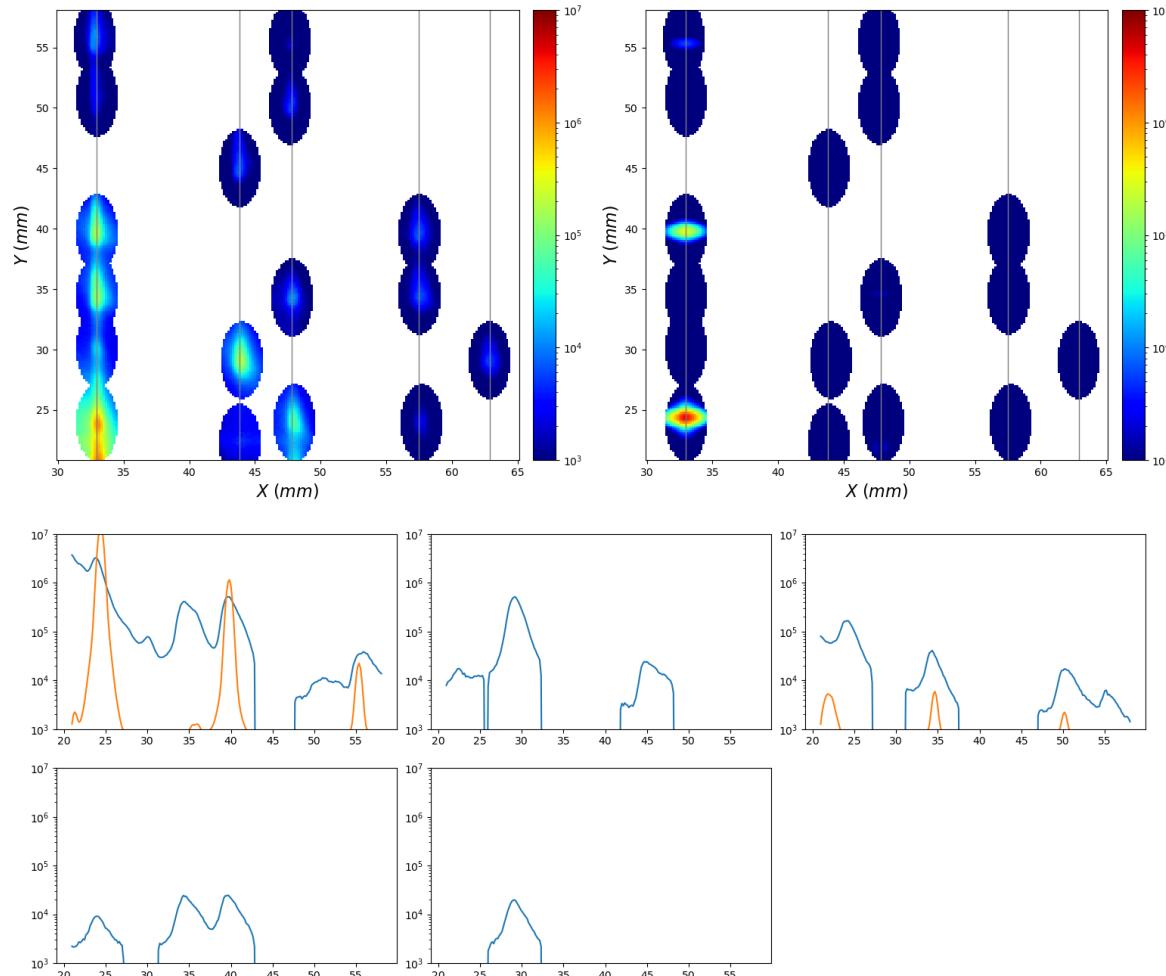
## Single meso, rotation\_z

```
{
  "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": 62.1
}
```



## 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": 62.3
}
```



## 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": 62.5
}
```

