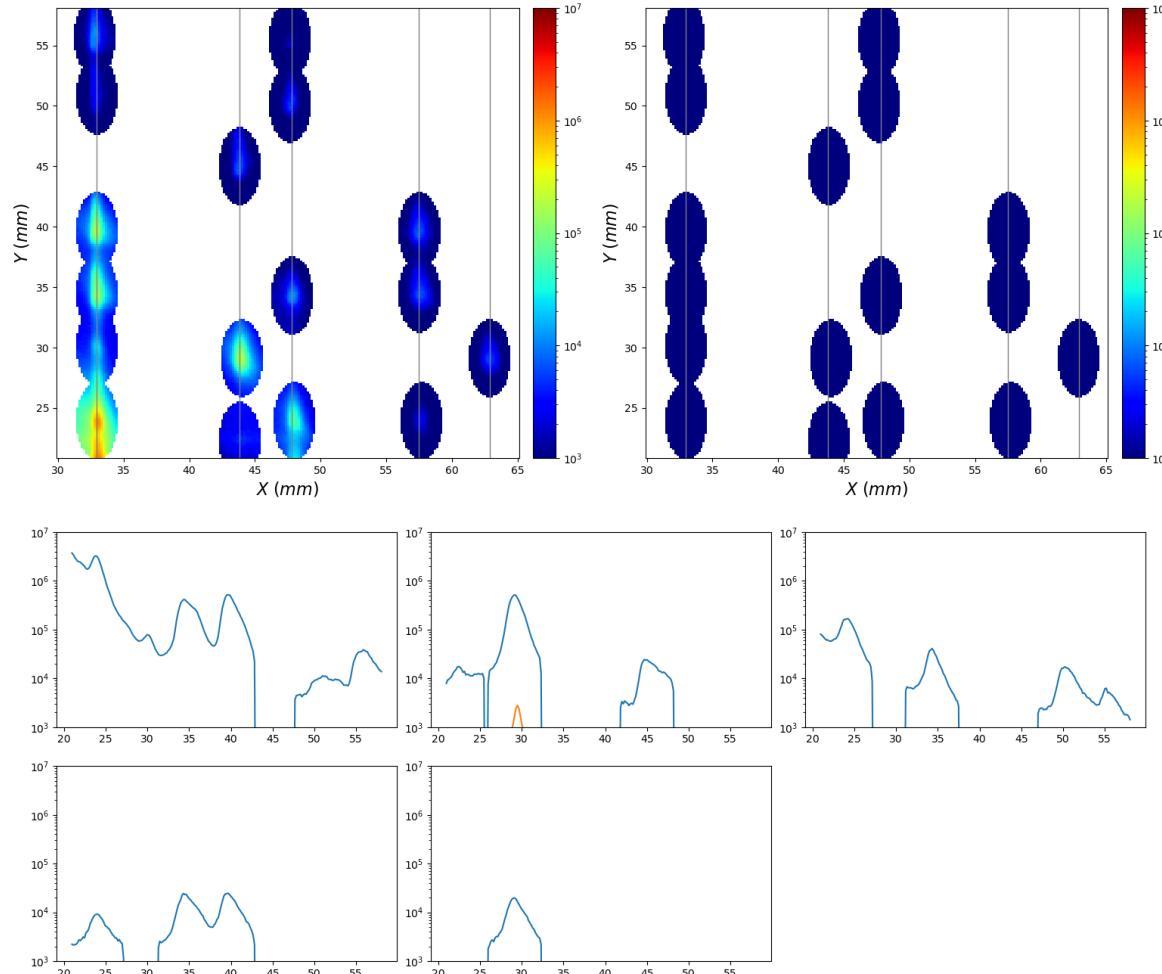


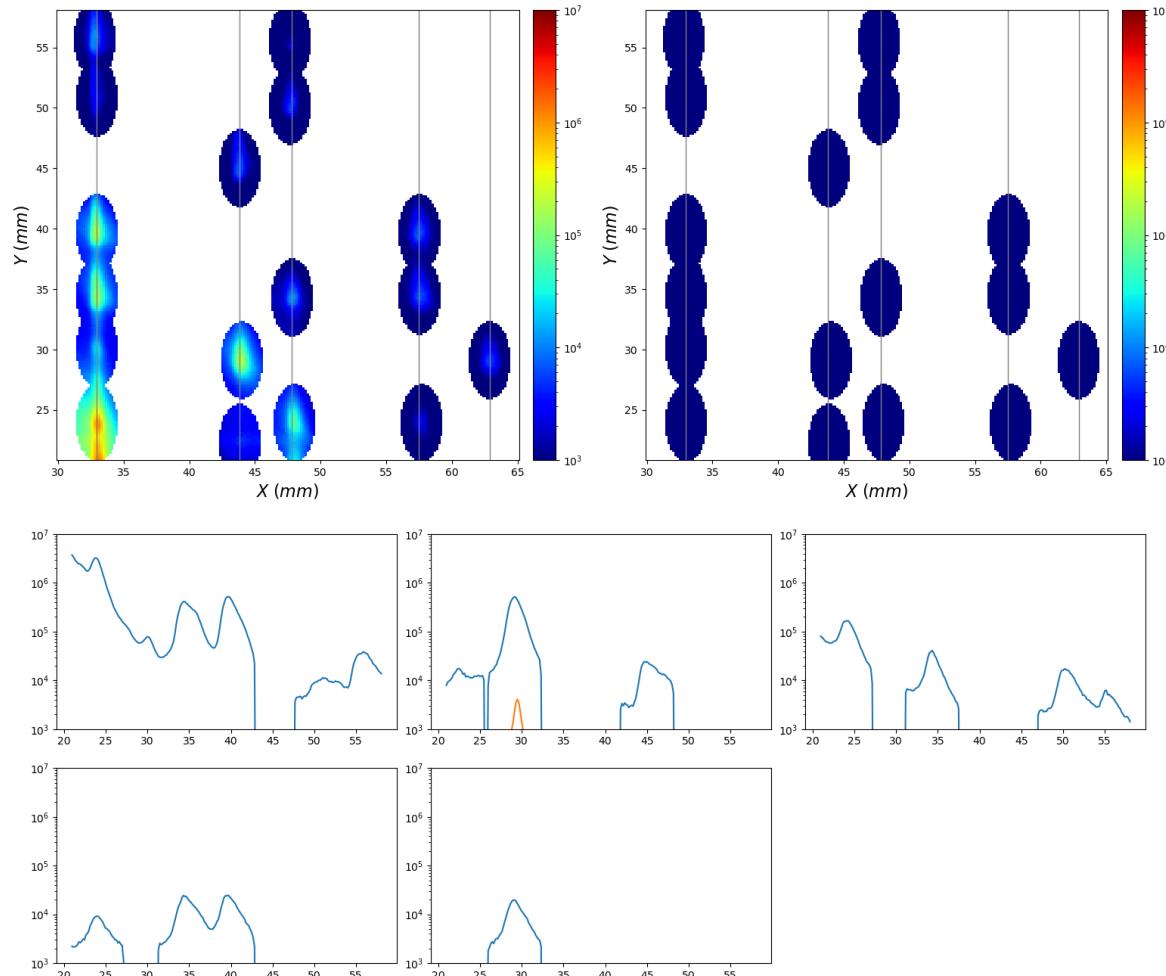
## Single meso, rotation\_z

```
{  
    "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": 23.5  
}
```



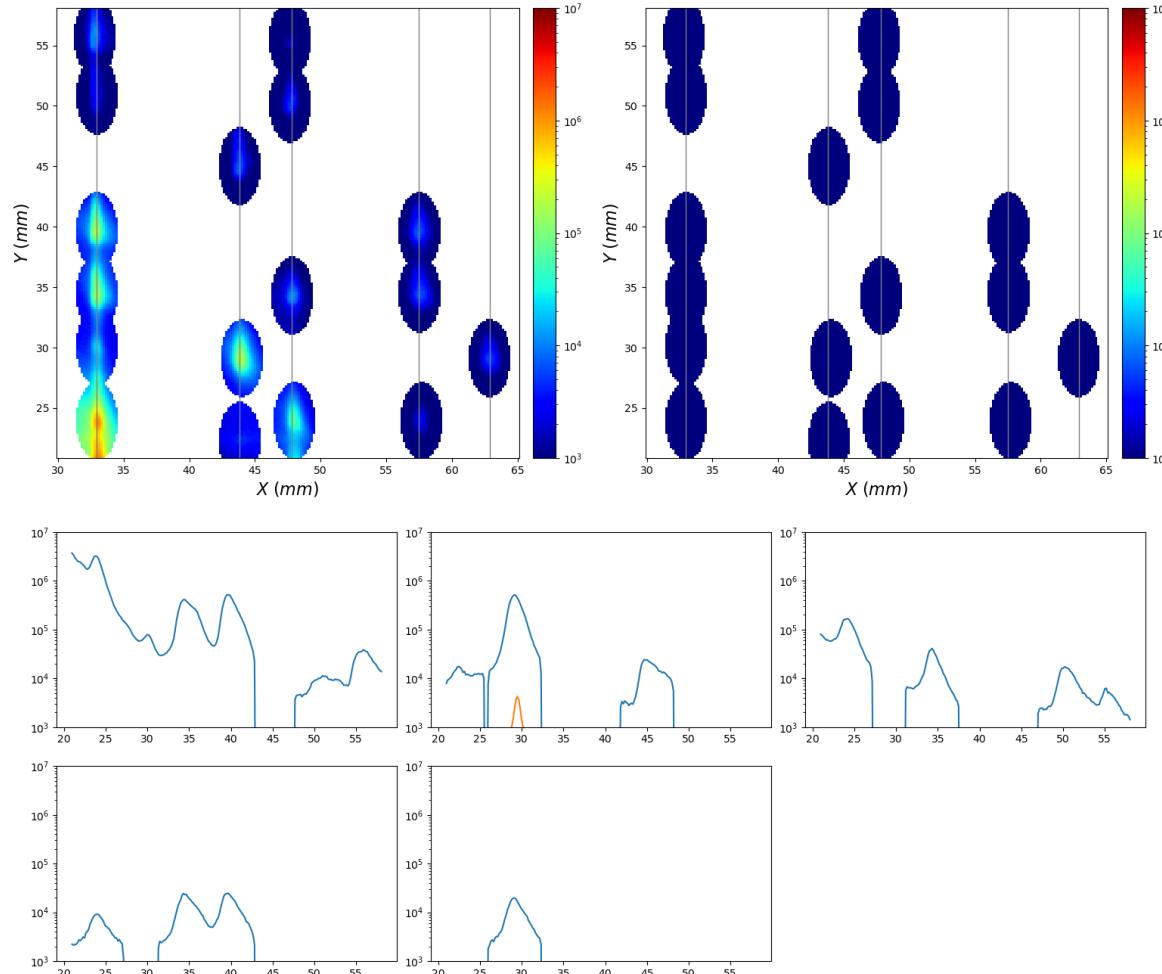
## Single meso, rotation\_z

```
{  
    "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": 23.7  
}
```



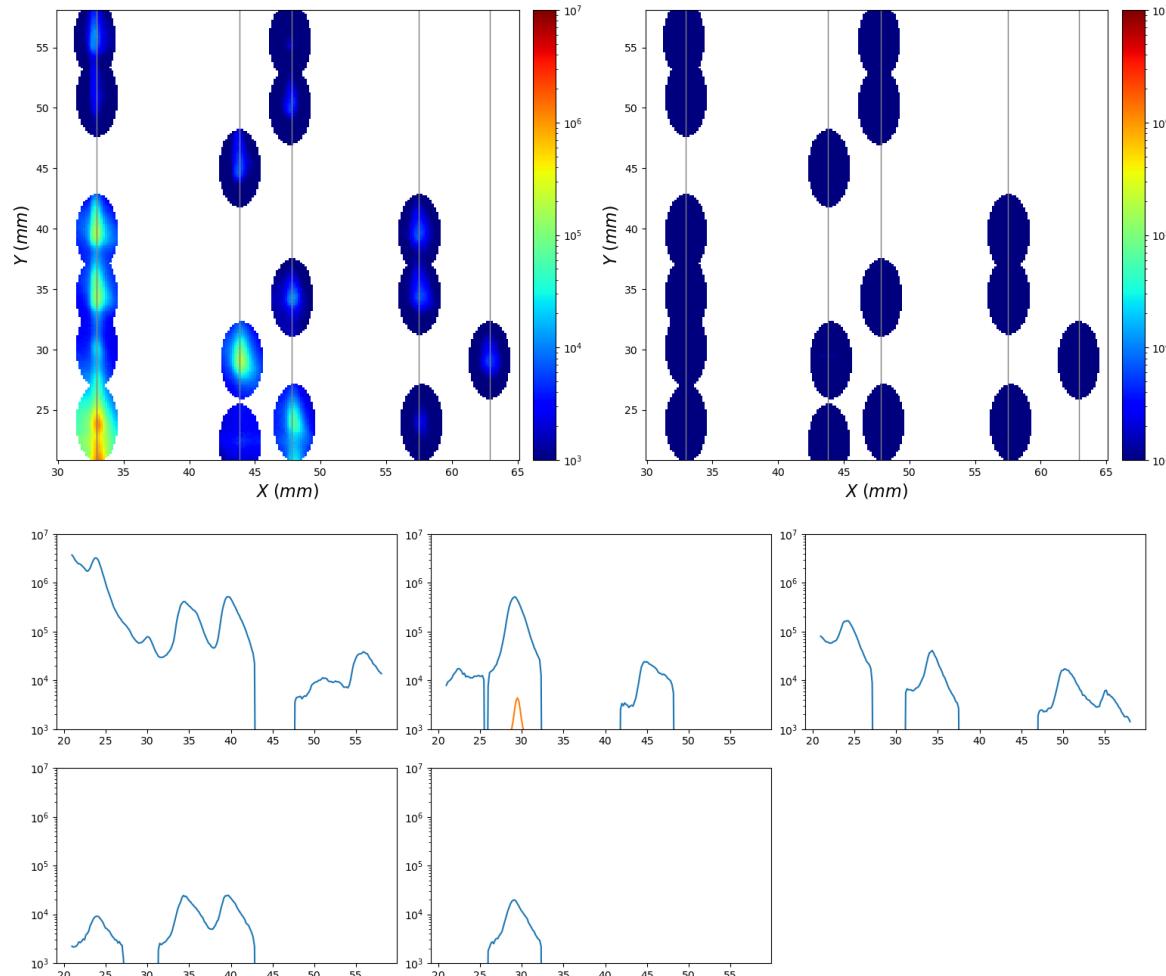
## Single meso, rotation\_z

```
{
  "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": 23.9
}
```



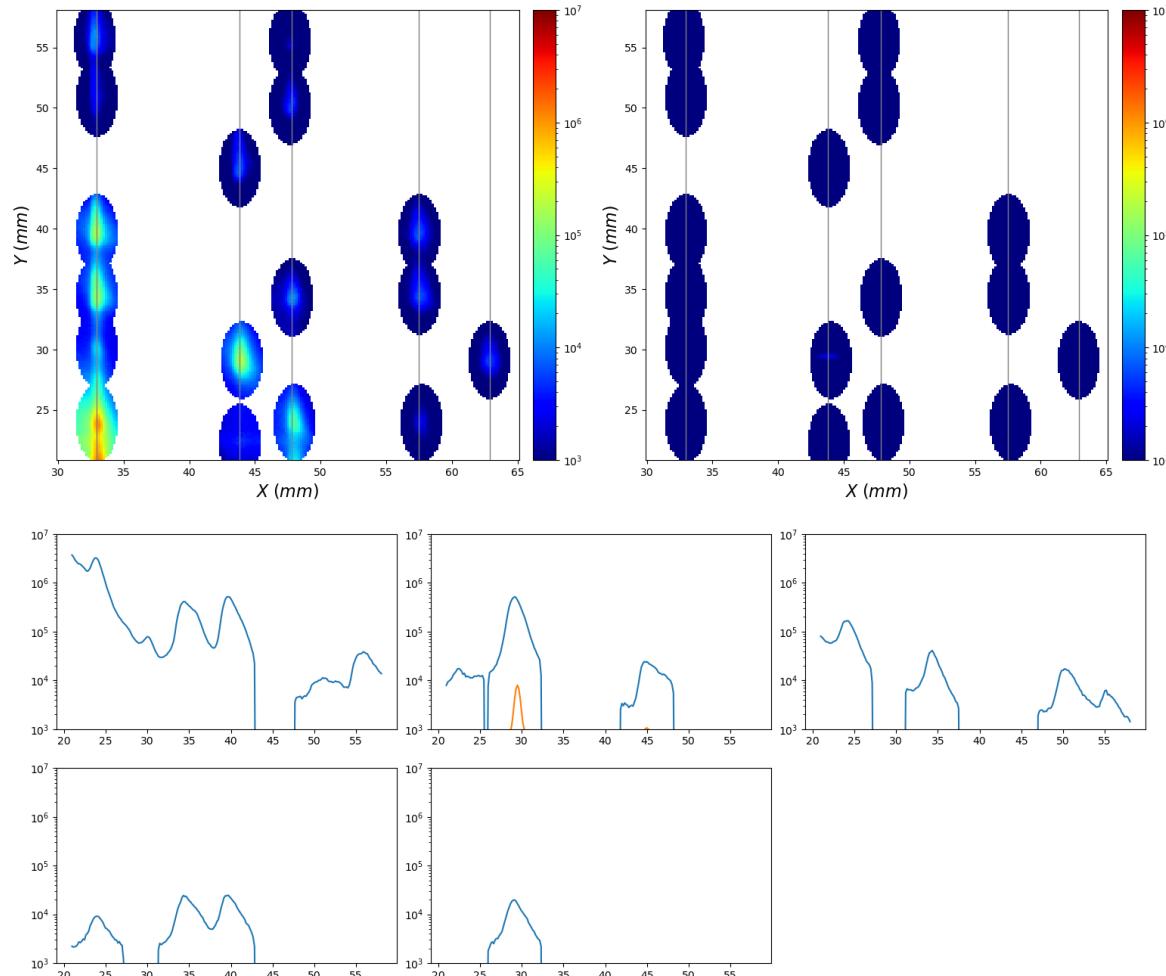
## Single meso, rotation\_z

```
{  
    "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": 24.1  
}
```



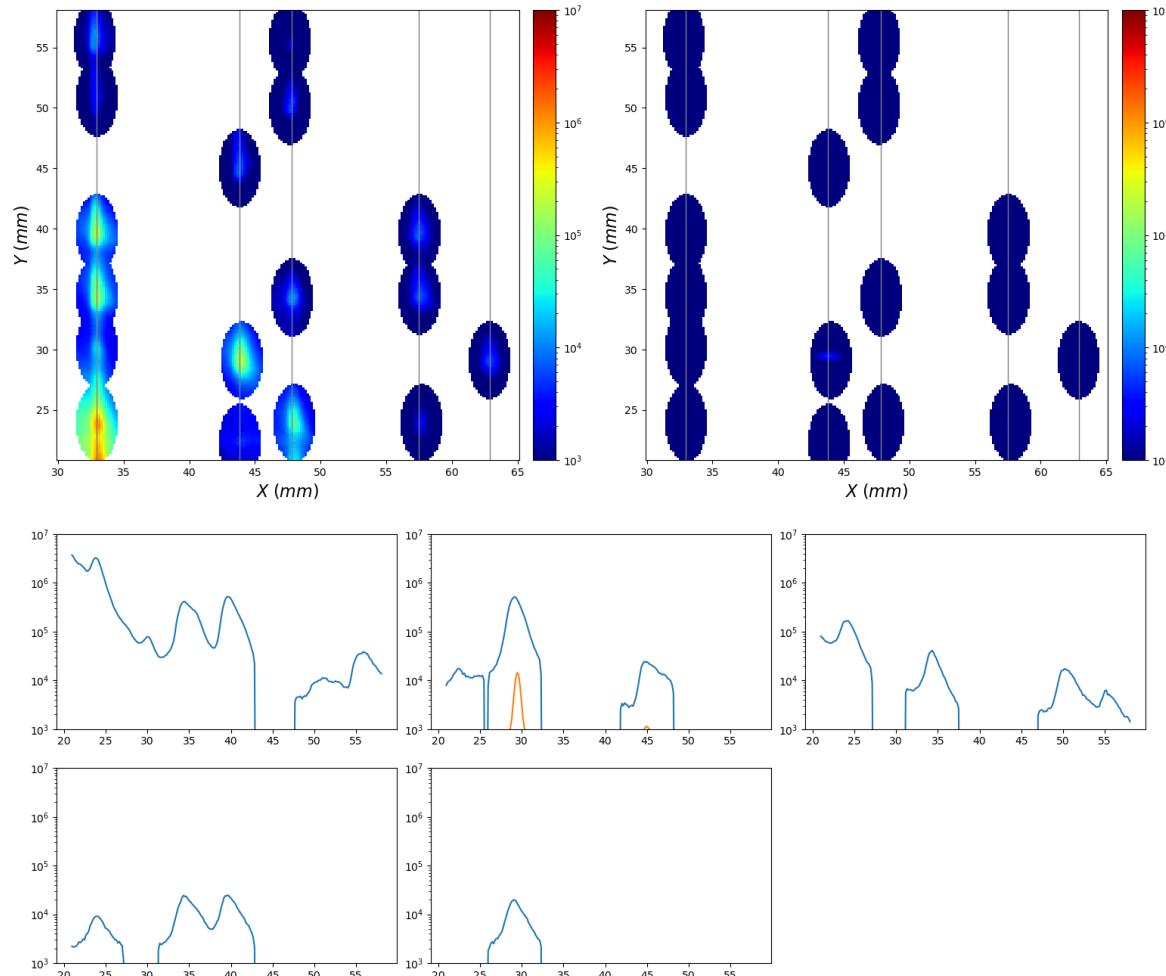
## Single meso, rotation\_z

```
{  
    "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": 24.3  
}
```



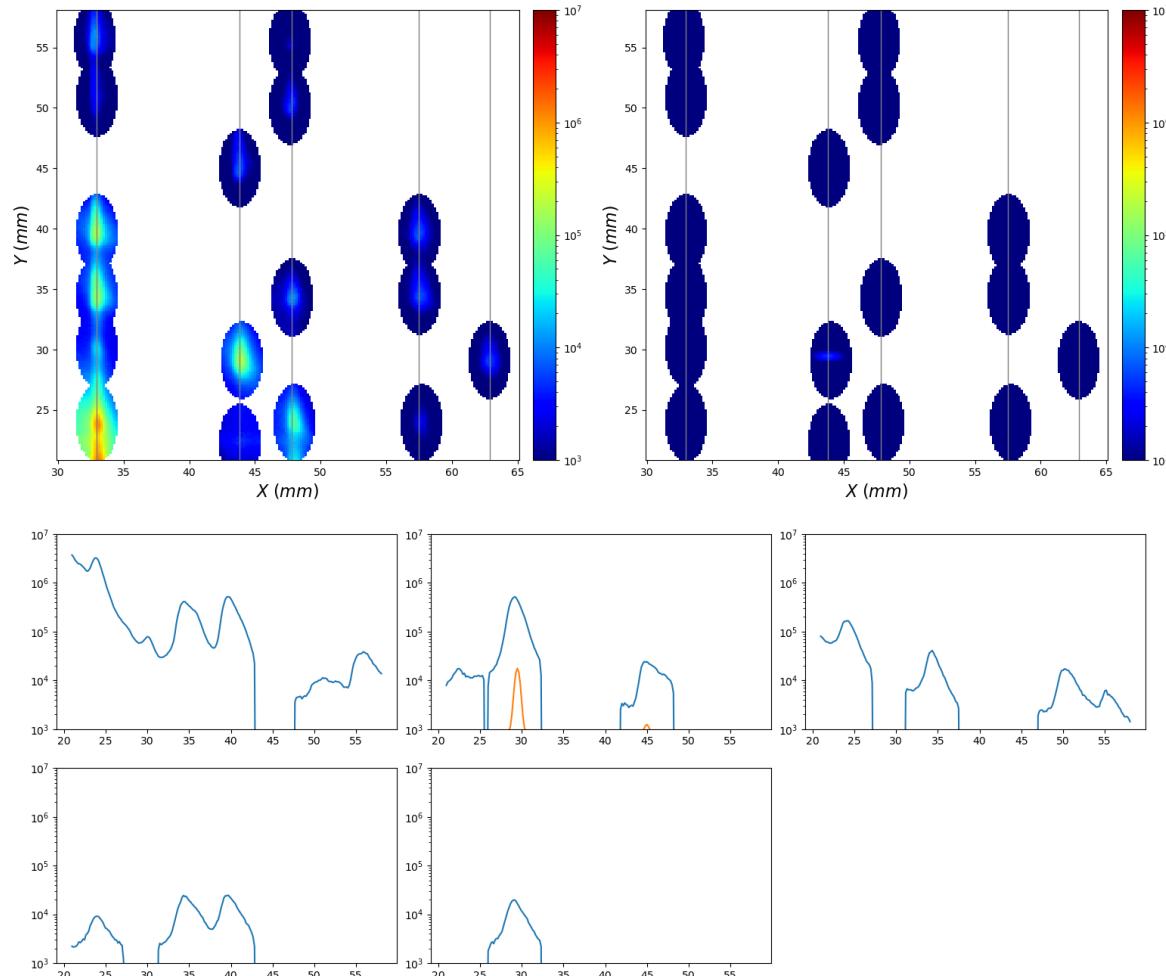
## Single meso, rotation\_z

```
{
  "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": 24.5
}
```



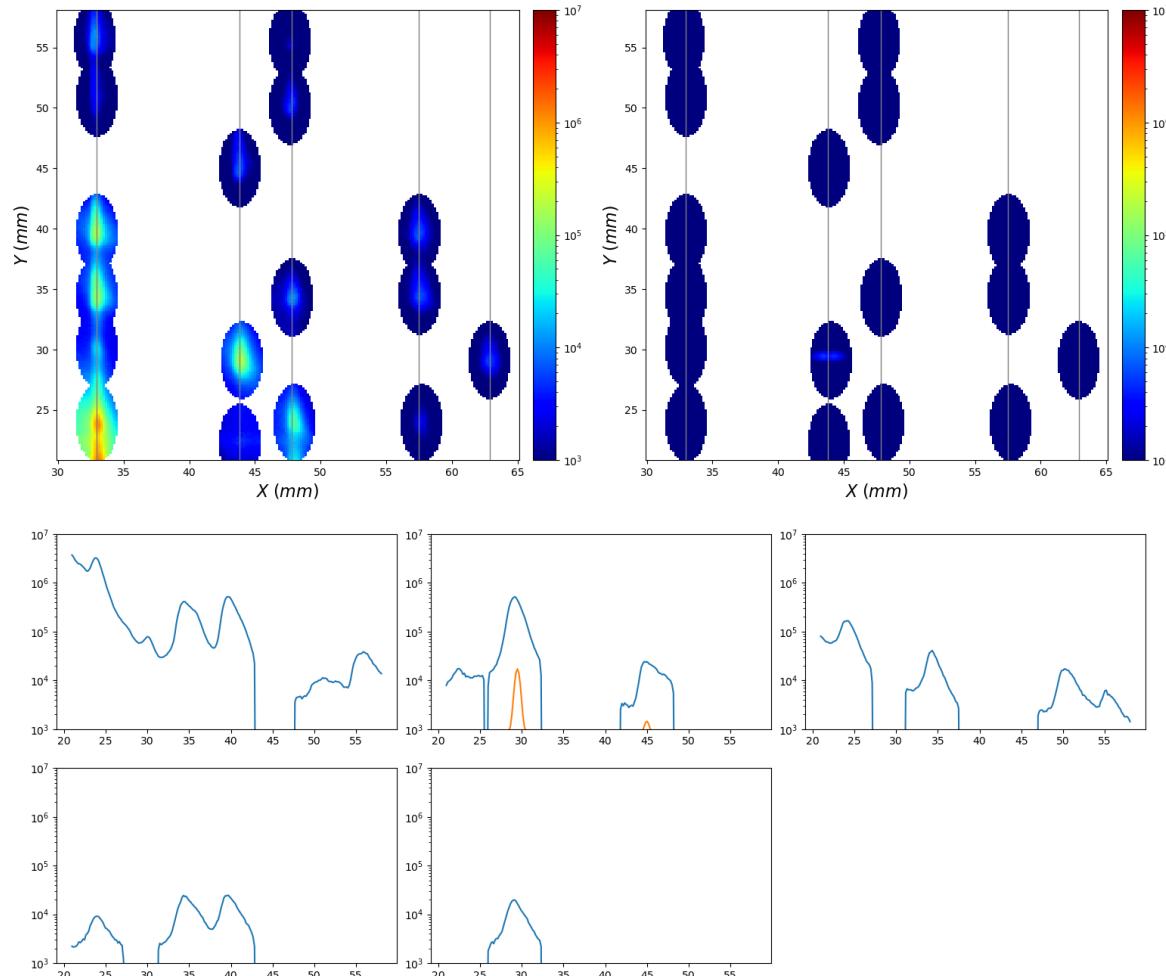
## Single meso, rotation\_z

```
{  
    "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": 24.7  
}
```



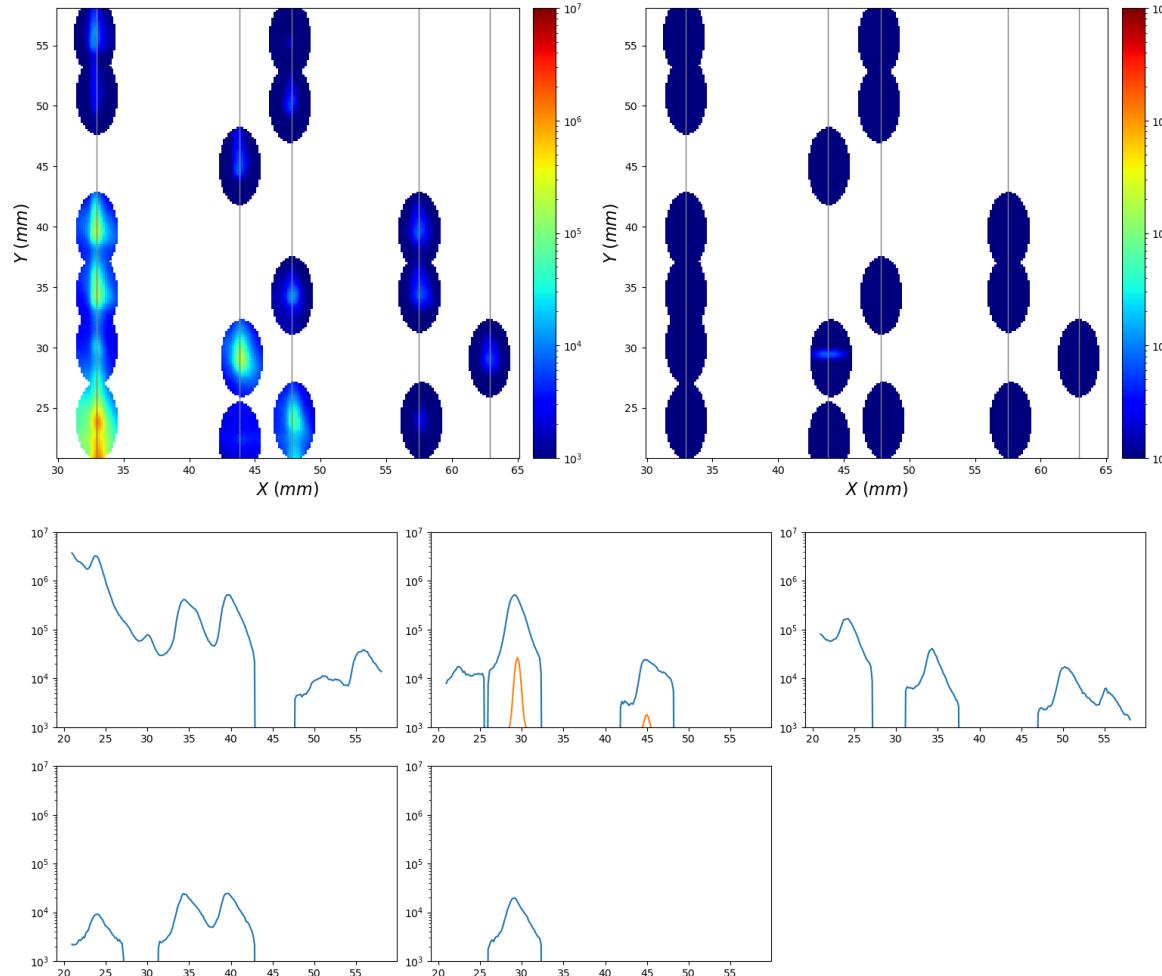
## Single meso, rotation\_z

```
{
  "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": 24.9
}
```



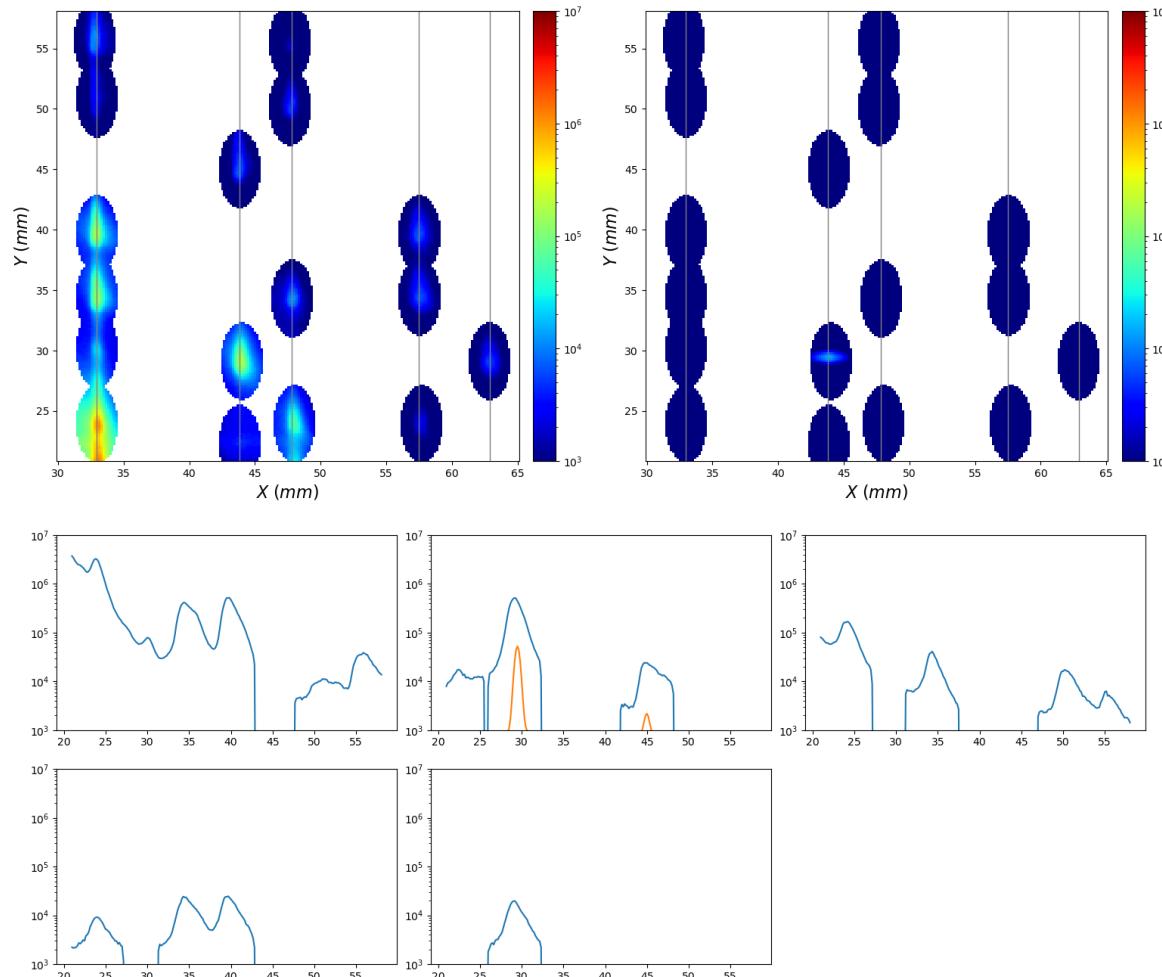
## Single meso, rotation\_z

```
{
  "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": 25.1
}
```



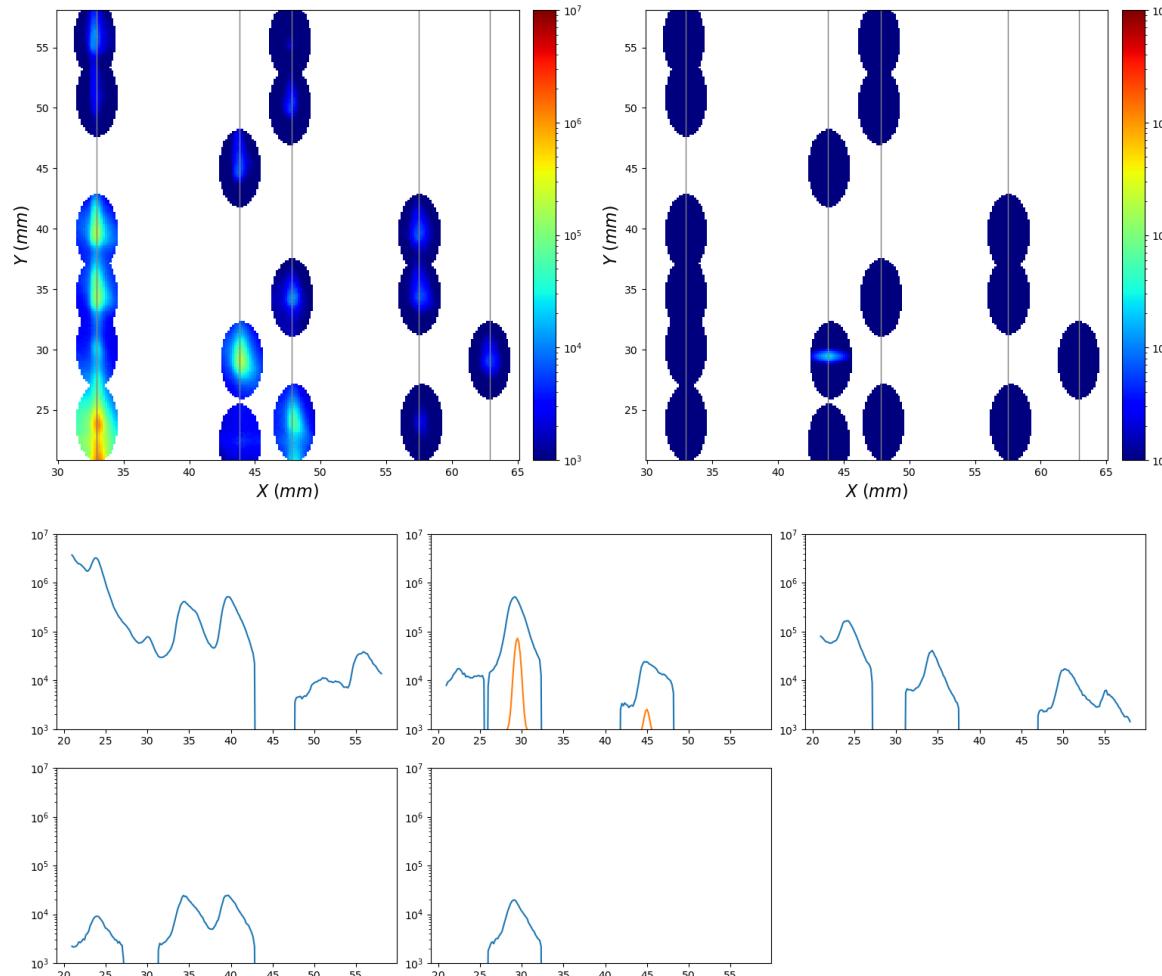
## Single meso, rotation\_z

```
{
  "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": 25.3
}
```



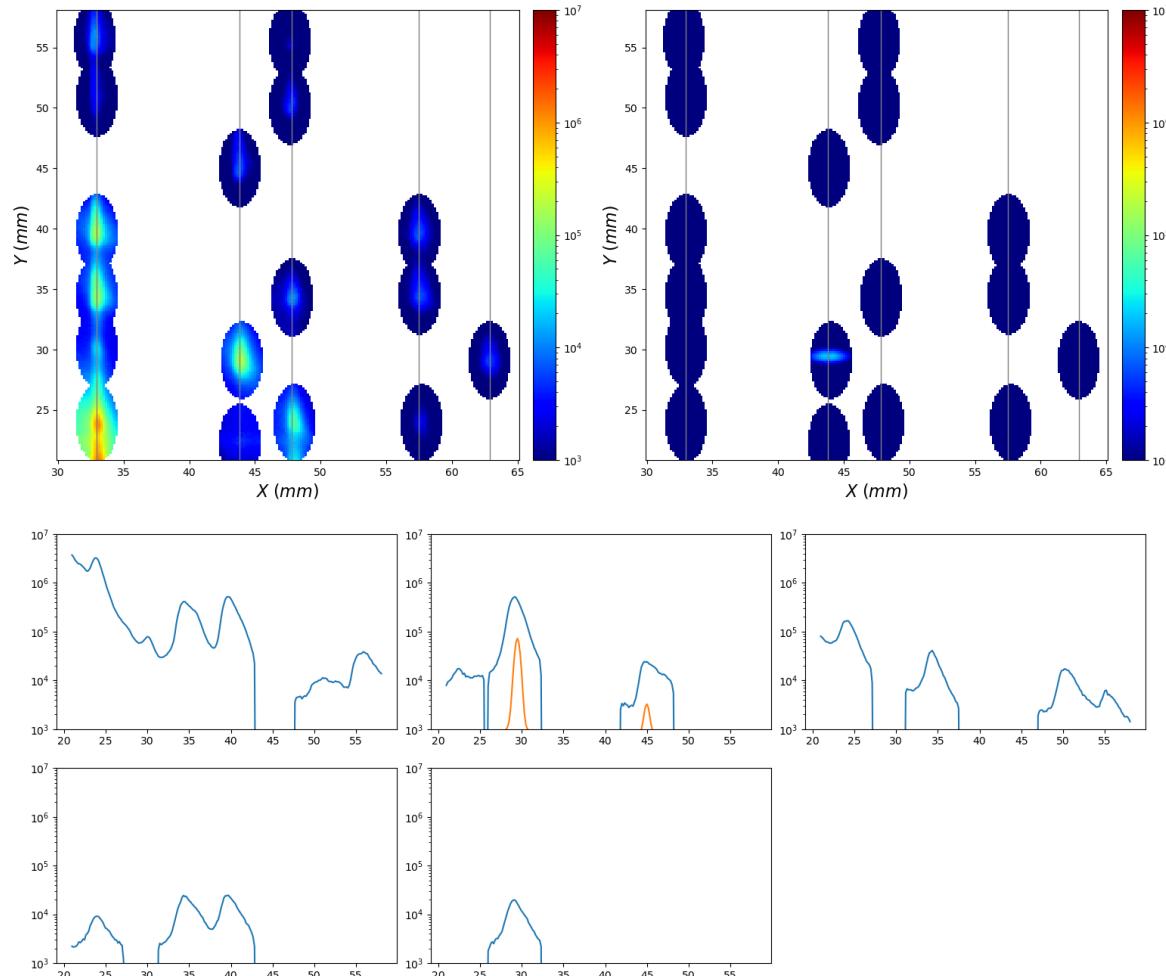
## Single meso, rotation\_z

```
{
  "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": 25.5
}
```



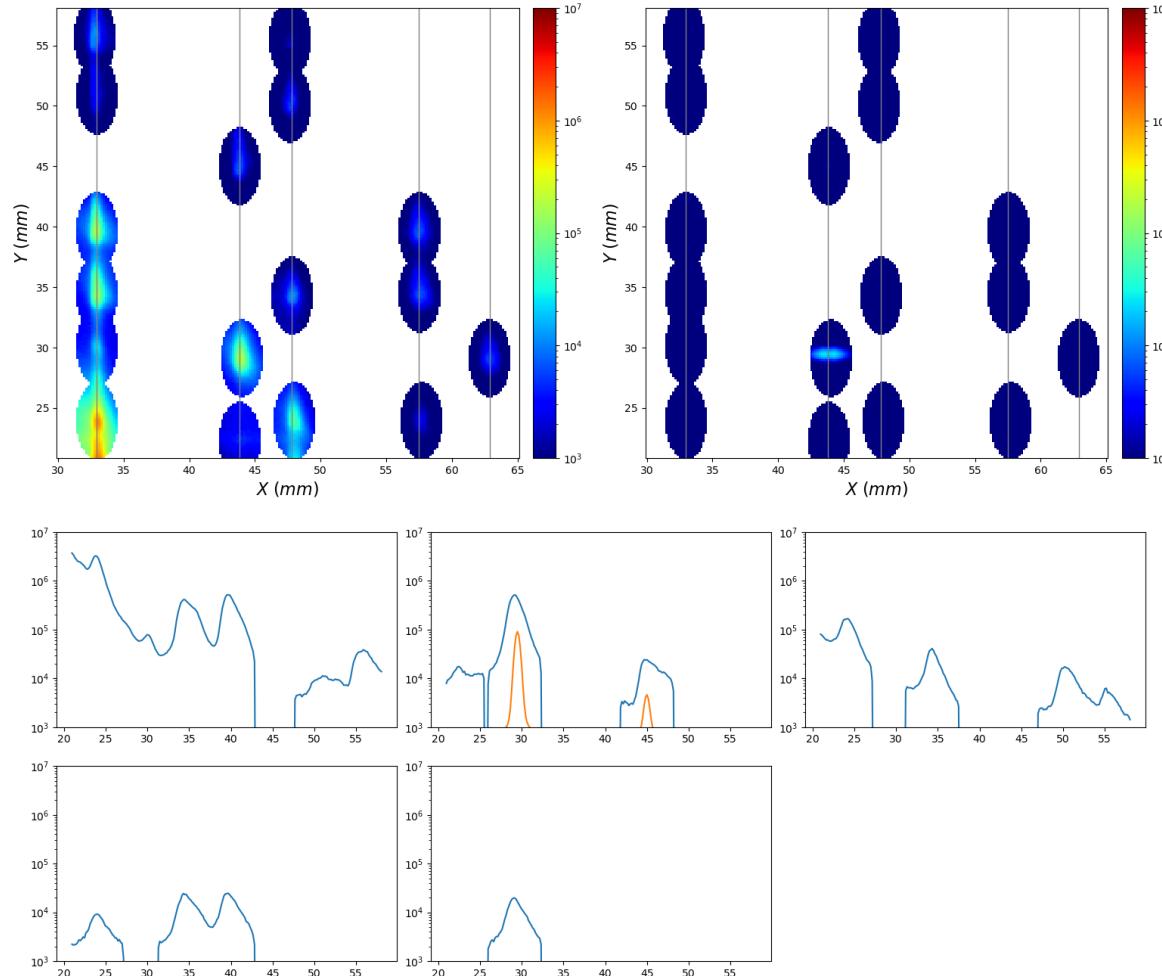
## Single meso, rotation\_z

```
{
  "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": 25.7
}
```



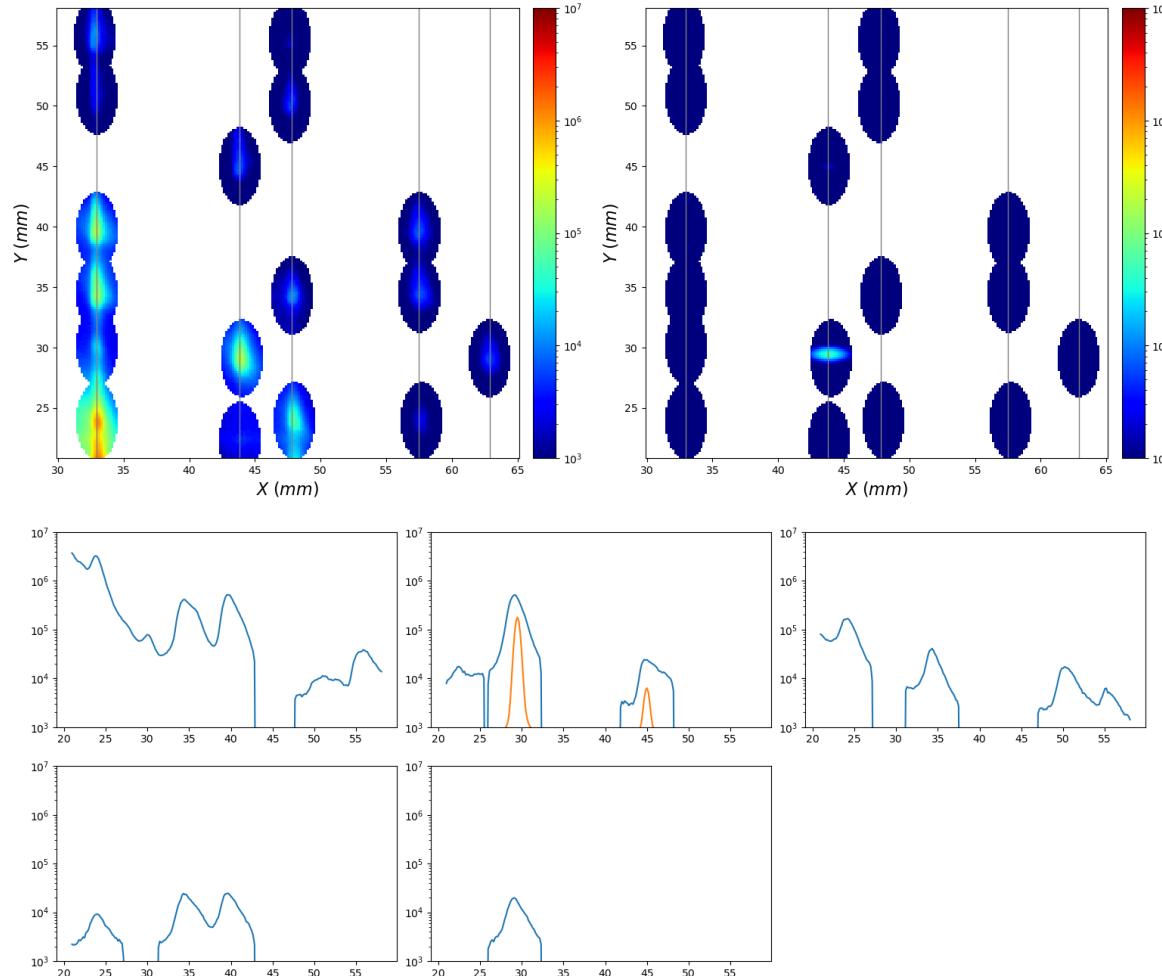
## Single meso, rotation\_z

```
{
  "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": 25.9
}
```



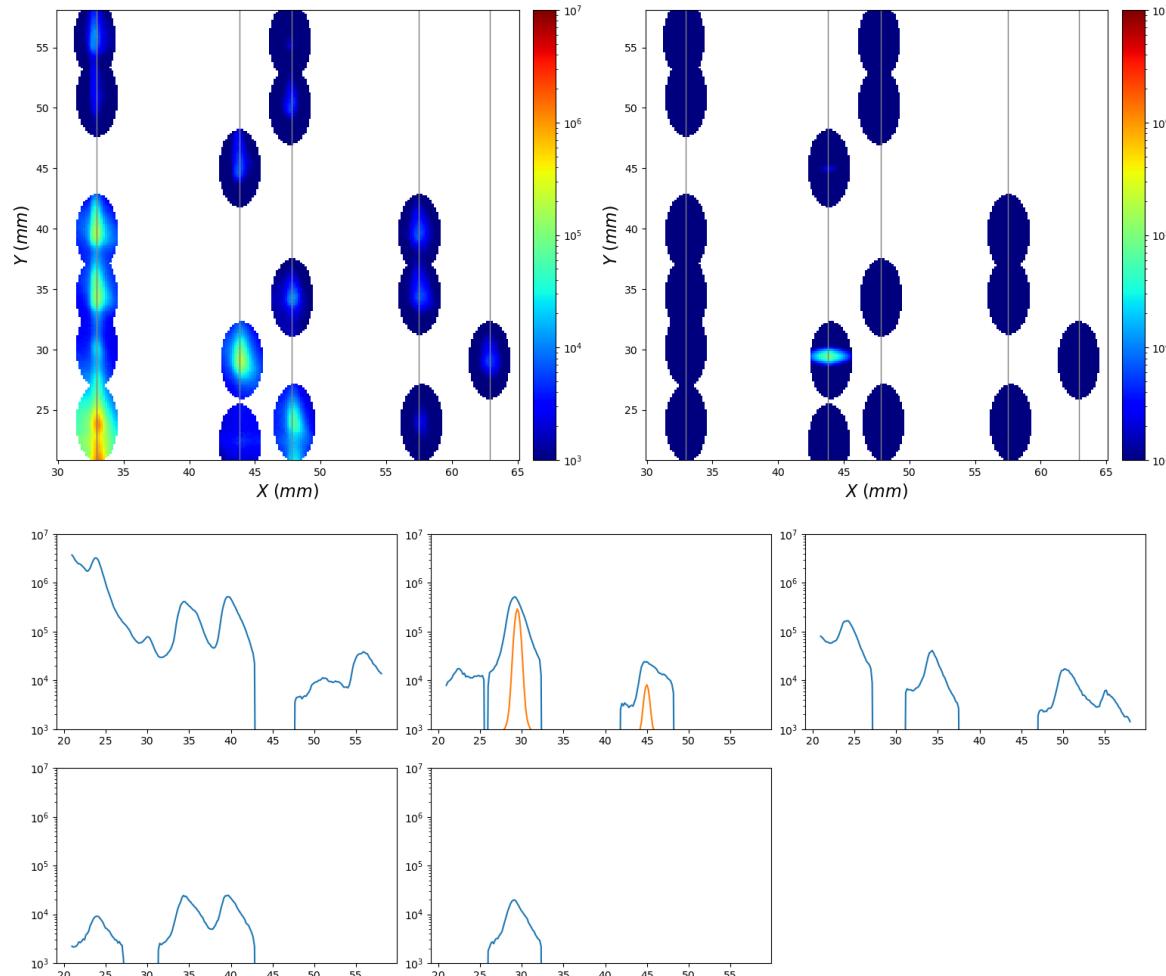
## Single meso, rotation\_z

```
{
  "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": 26.1
}
```



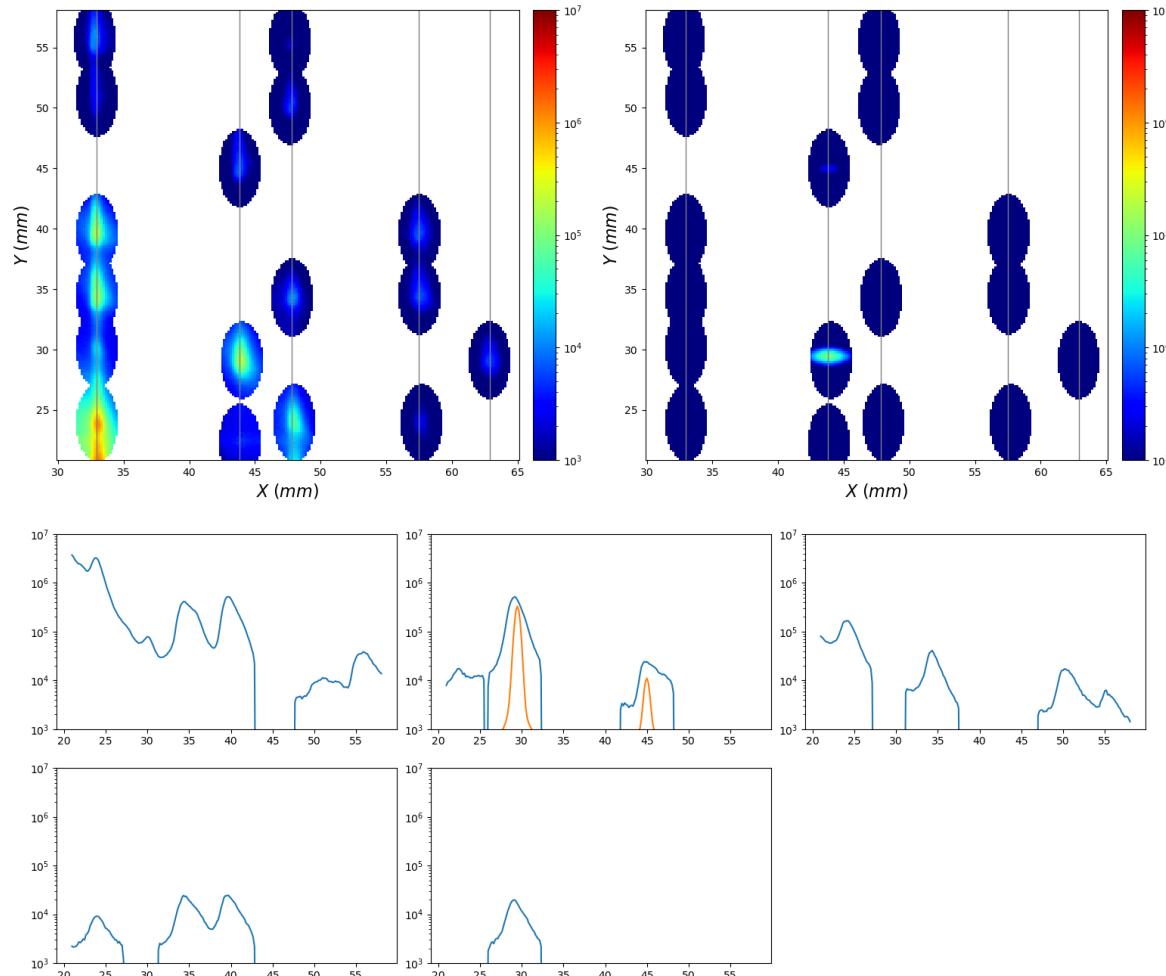
## Single meso, rotation\_z

```
{
  "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": 26.3
}
```



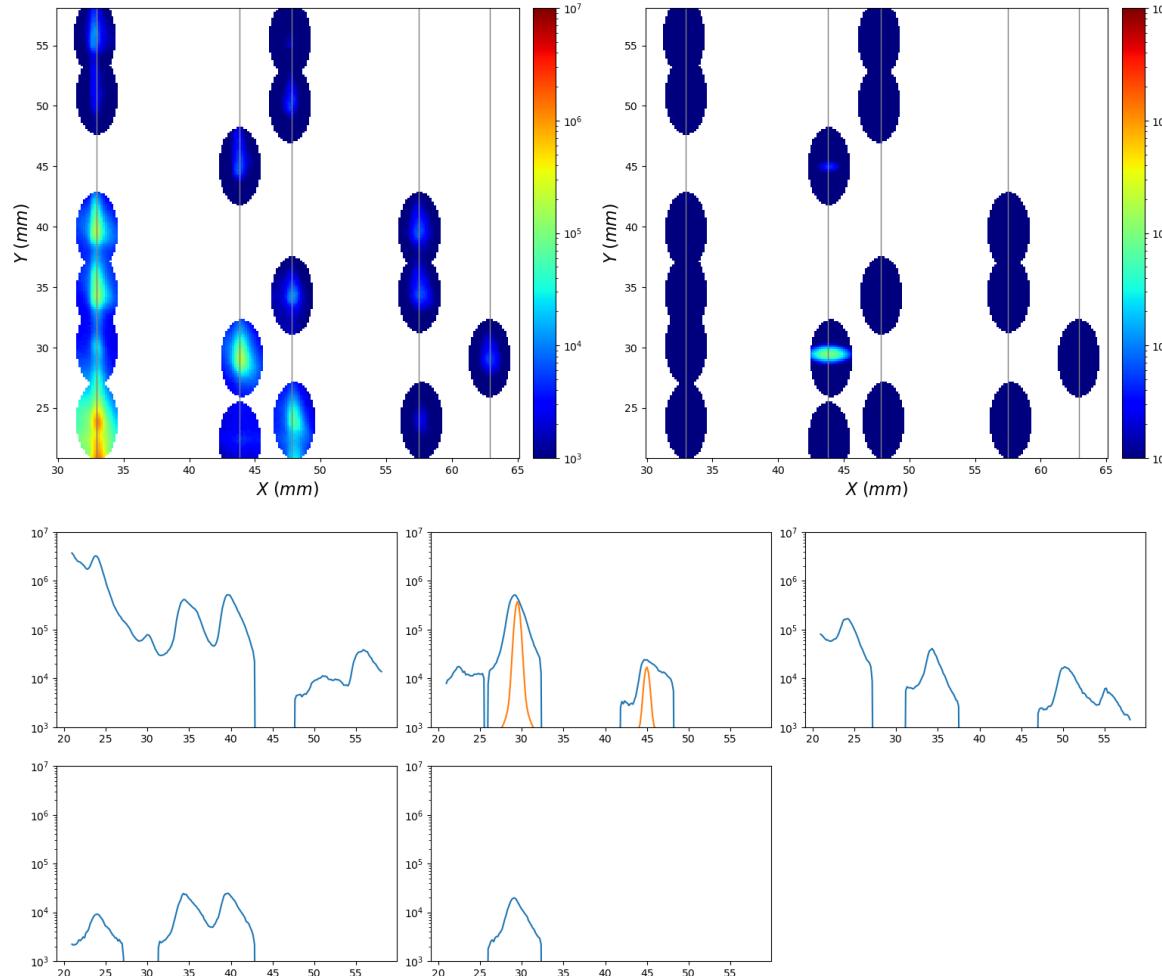
## Single meso, rotation\_z

```
{
  "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": 26.5
}
```



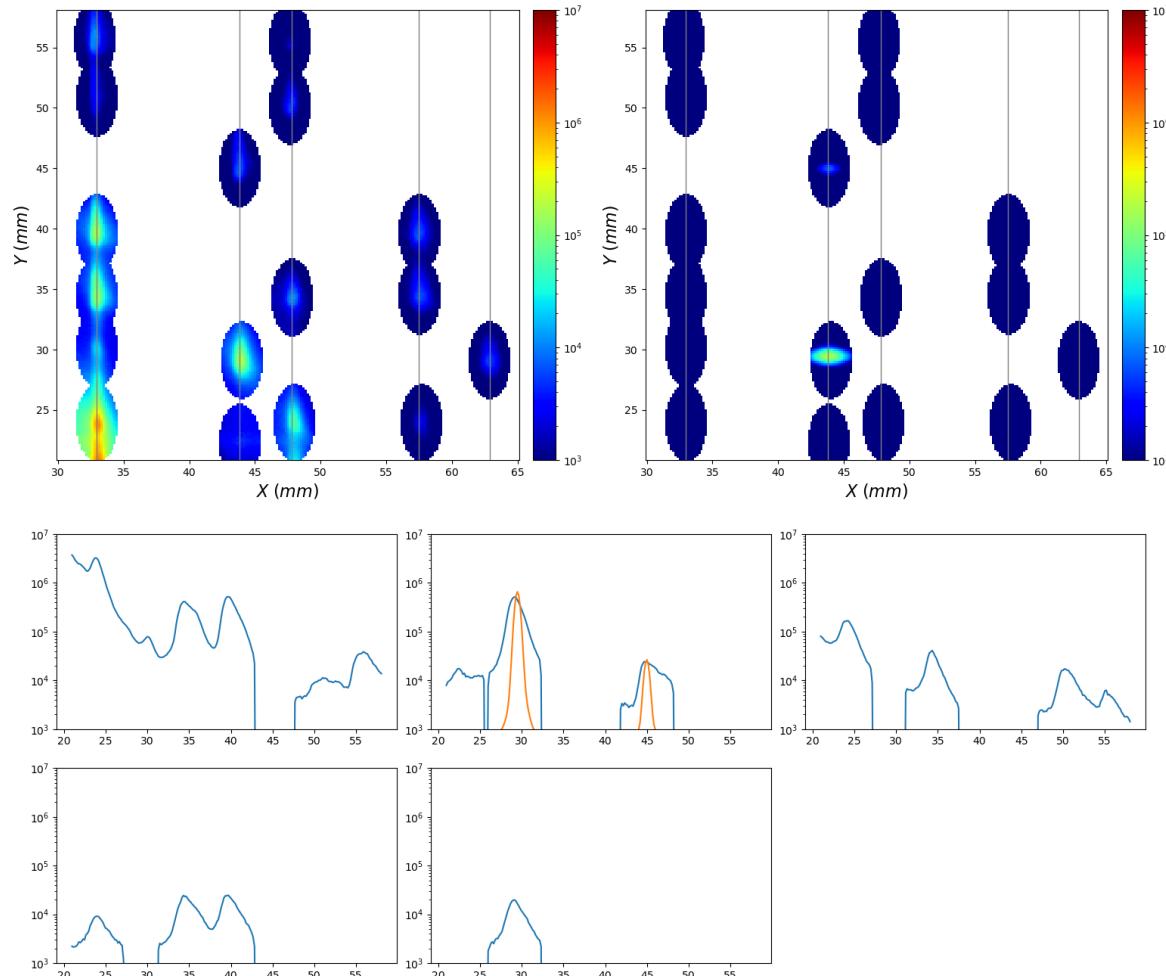
## Single meso, rotation\_z

```
{
  "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": 26.7
}
```



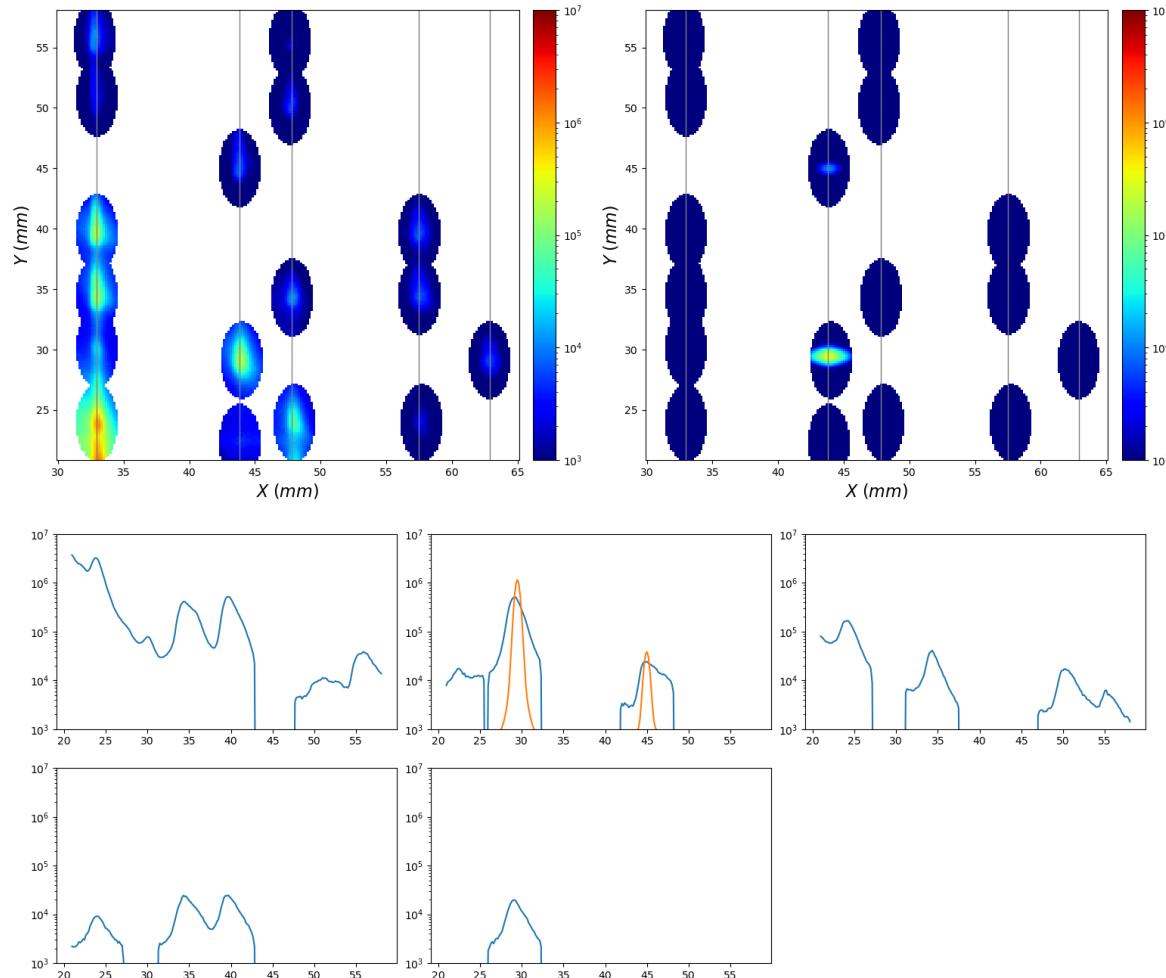
## Single meso, rotation\_z

```
{
  "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": 26.9
}
```



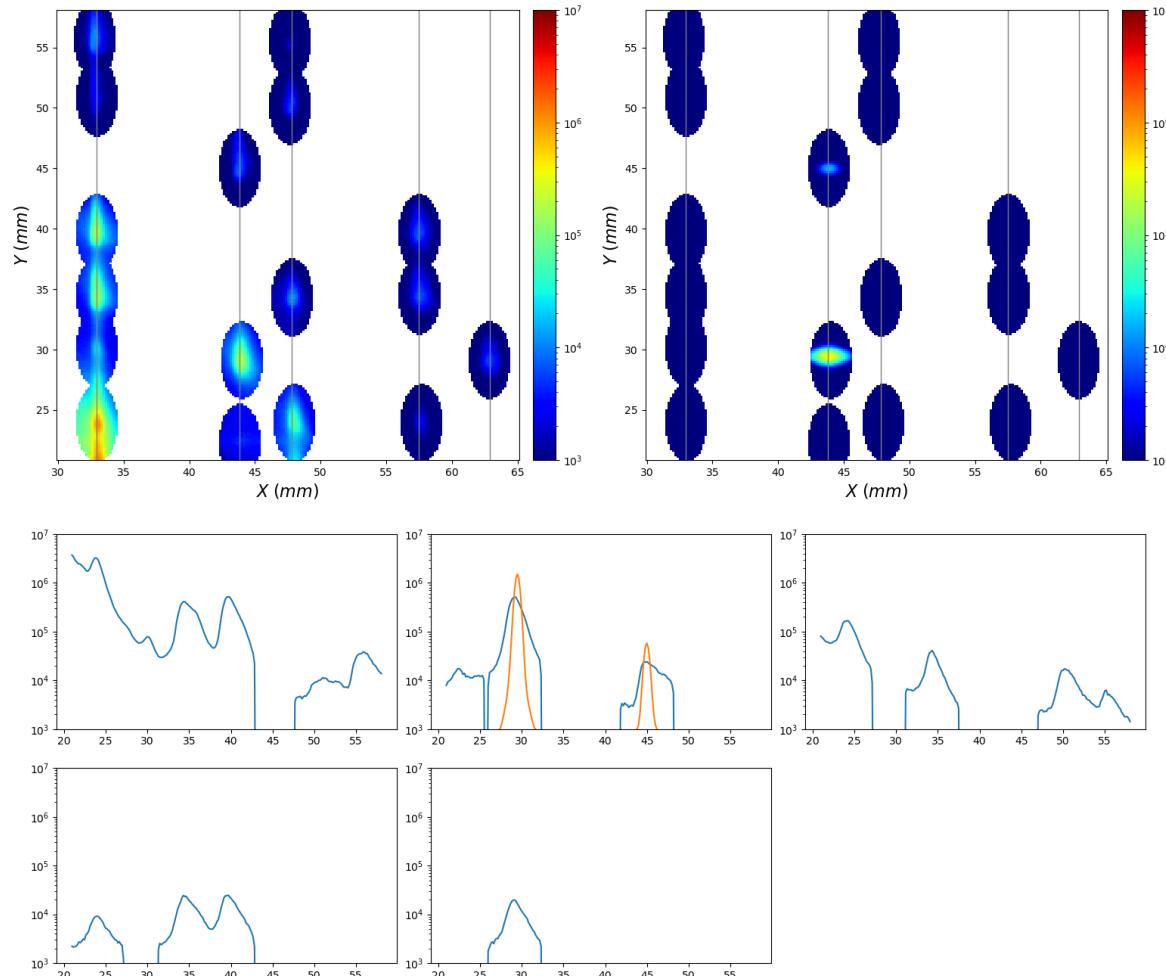
## Single meso, rotation\_z

```
{
  "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": 27.1
}
```



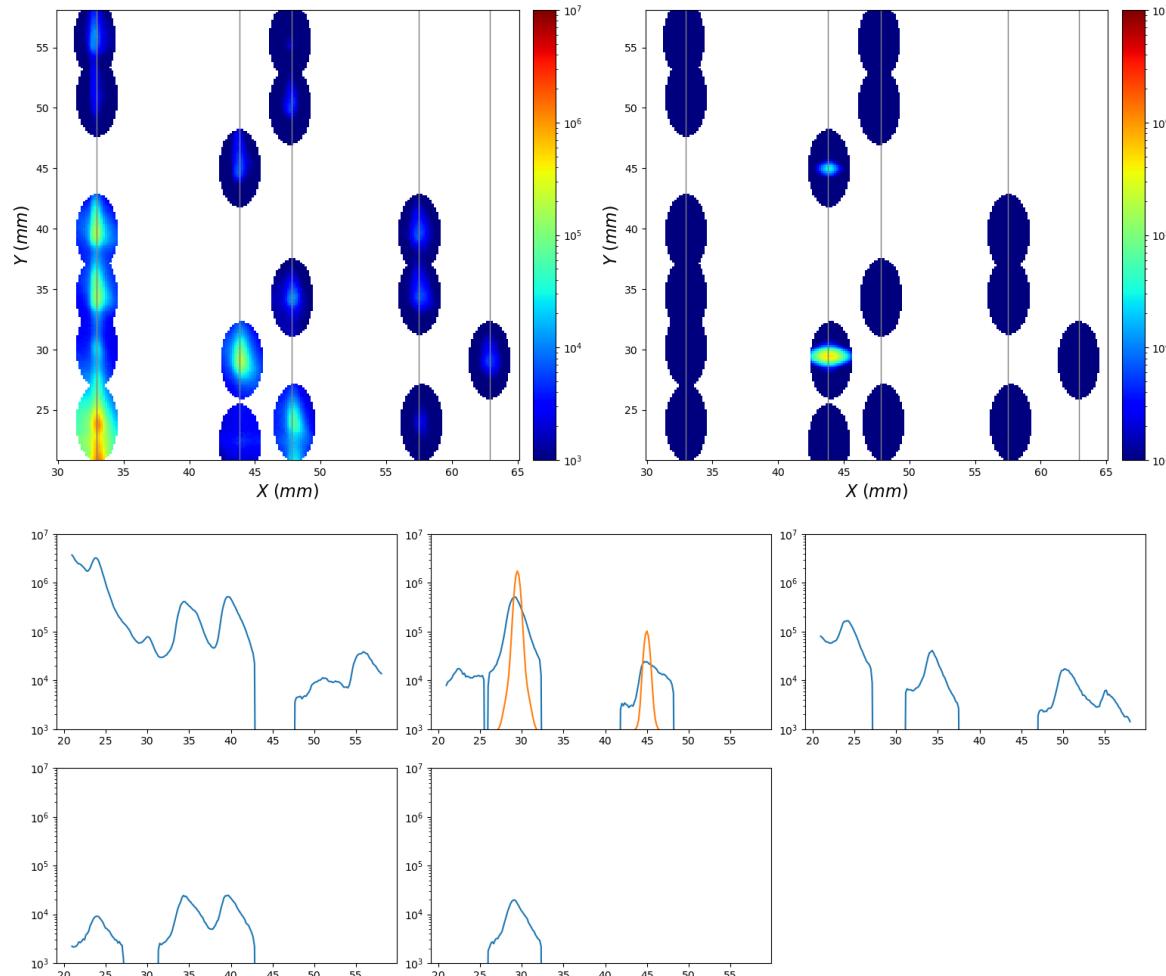
## Single meso, rotation\_z

```
{
  "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": 27.3
}
```



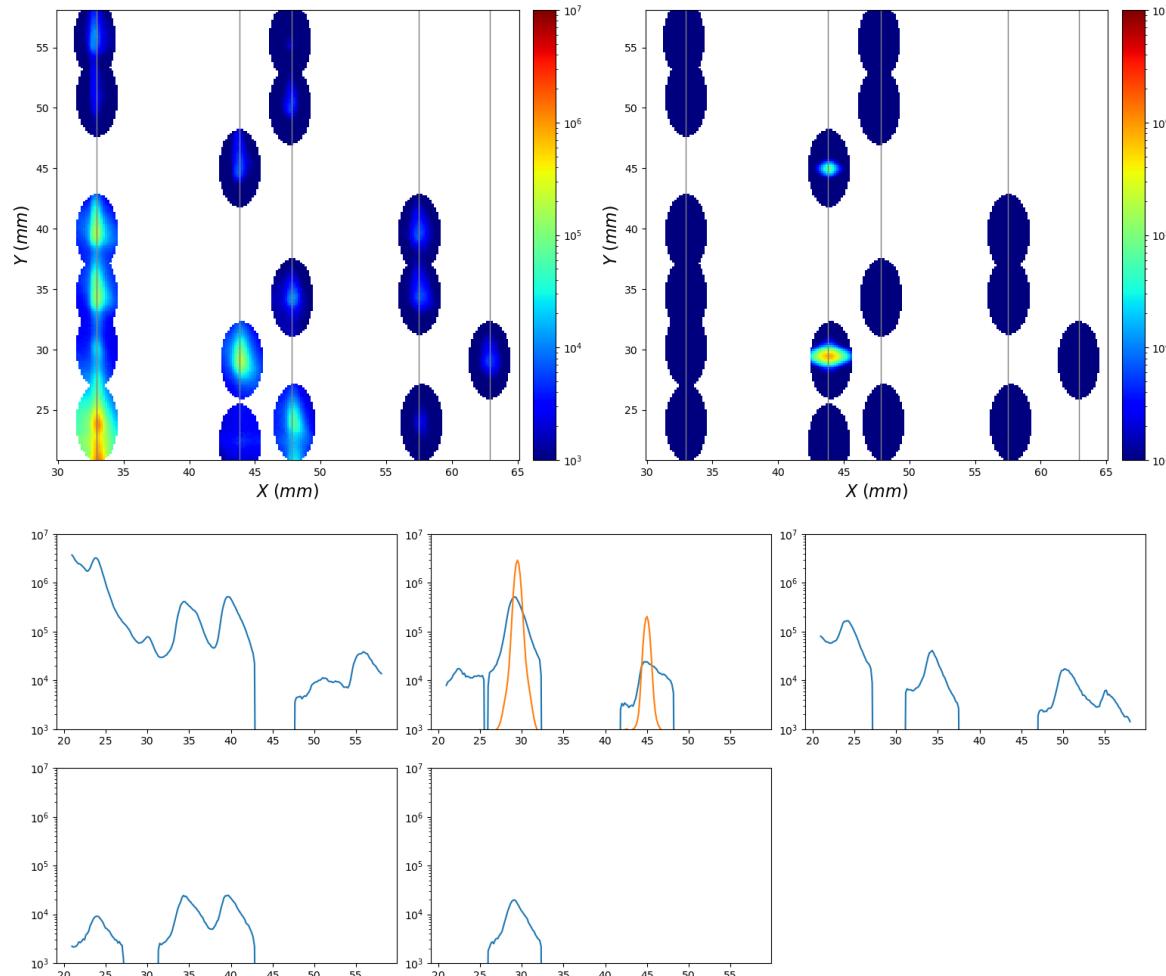
## Single meso, rotation\_z

```
{
  "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": 27.5
}
```



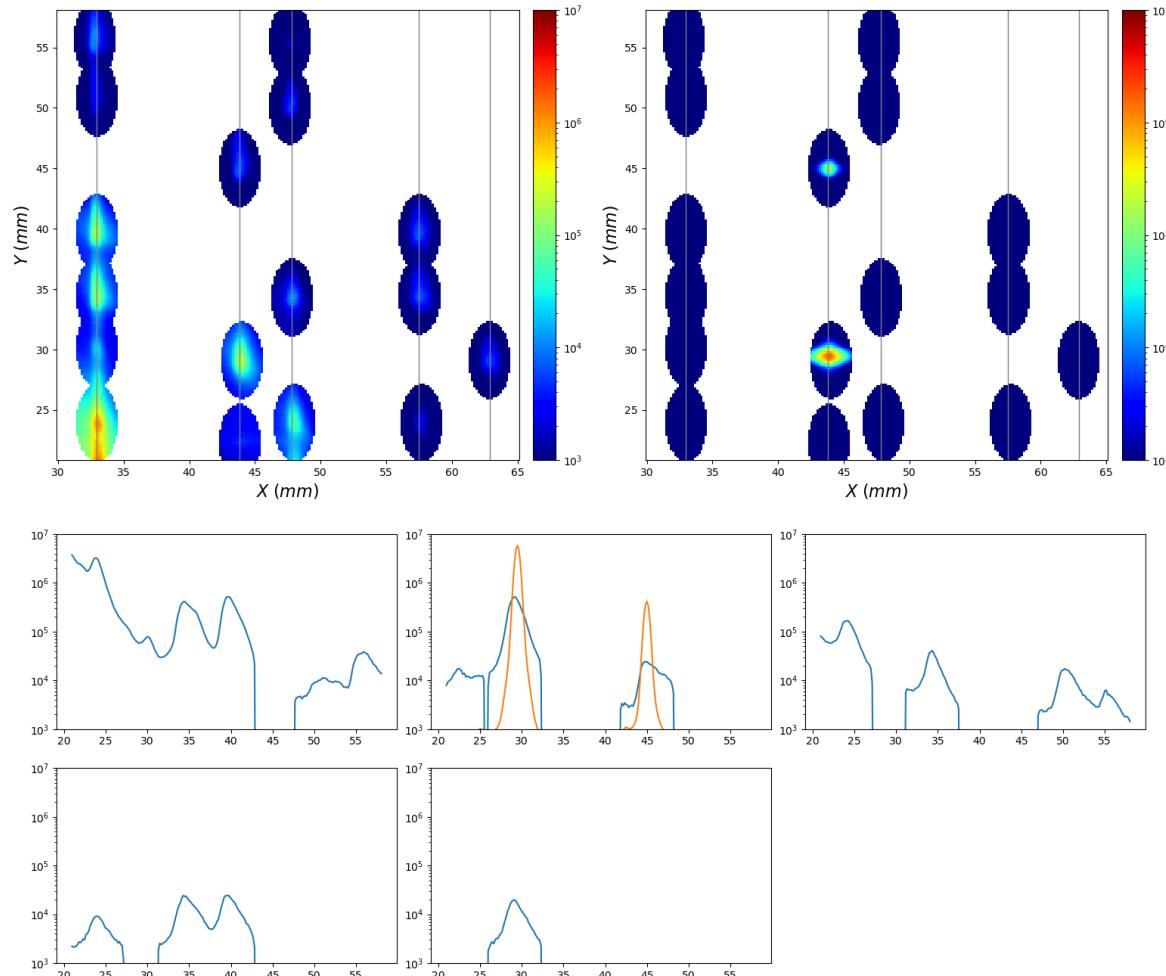
## Single meso, rotation\_z

```
{
  "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": 27.7
}
```



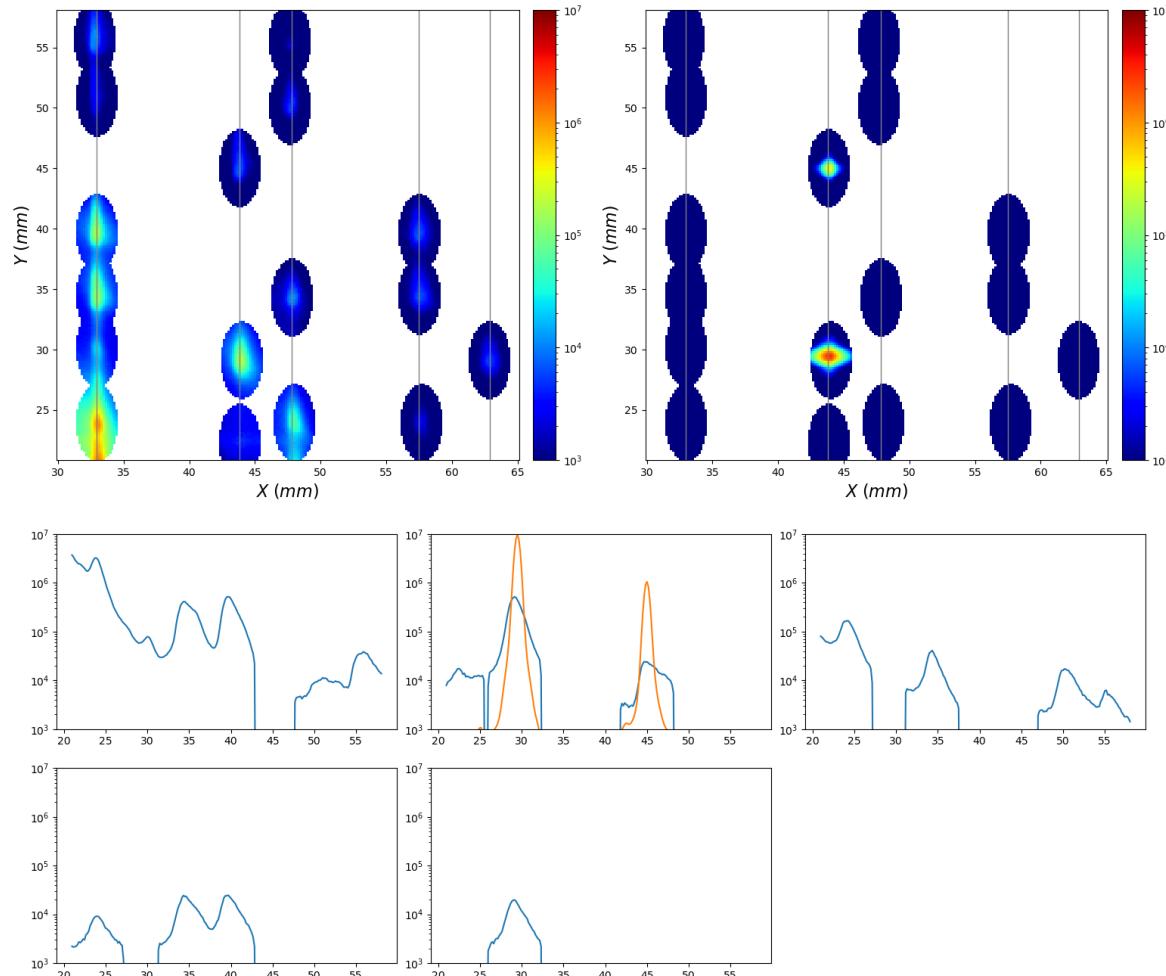
## Single meso, rotation\_z

```
{
  "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": 27.9
}
```



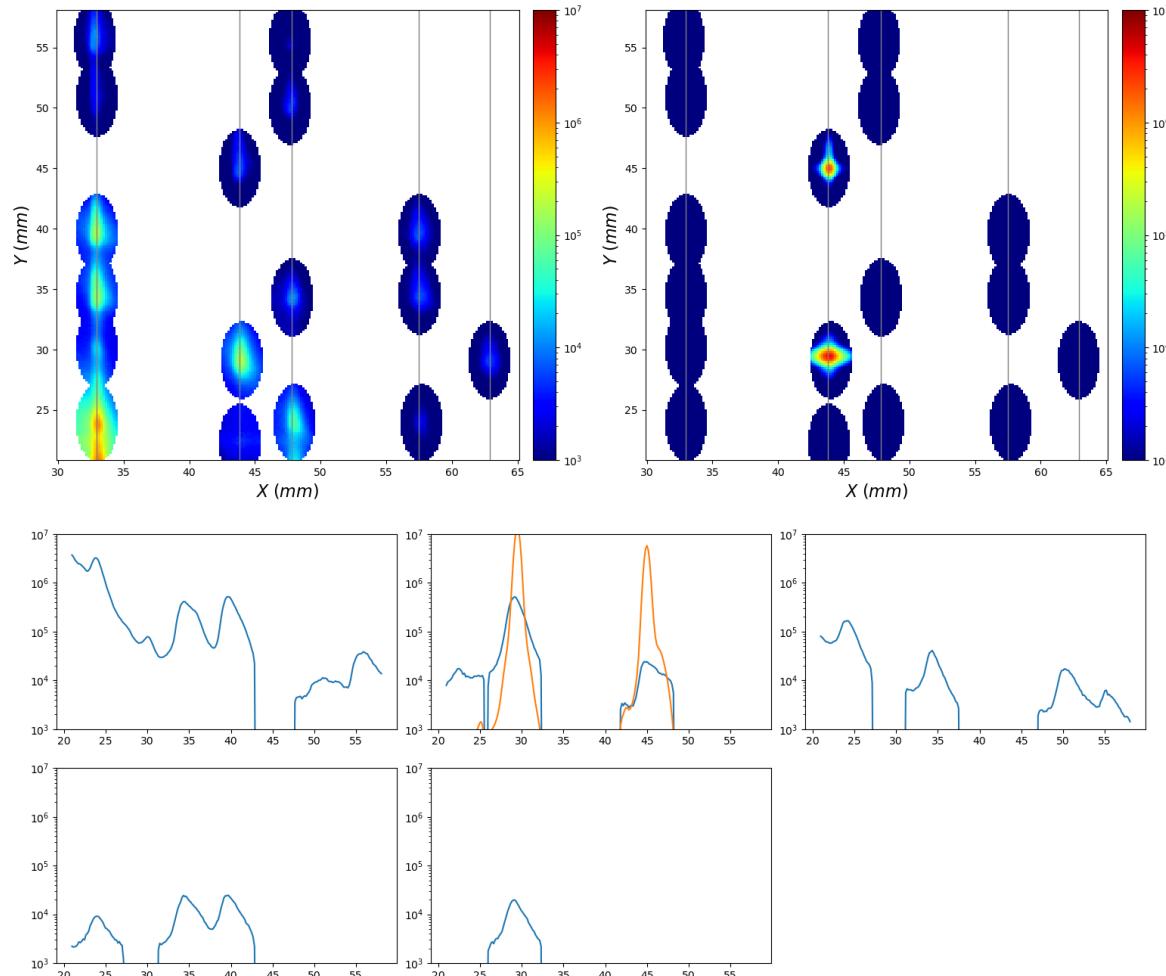
## Single meso, rotation\_z

```
{
  "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": 28.1
}
```



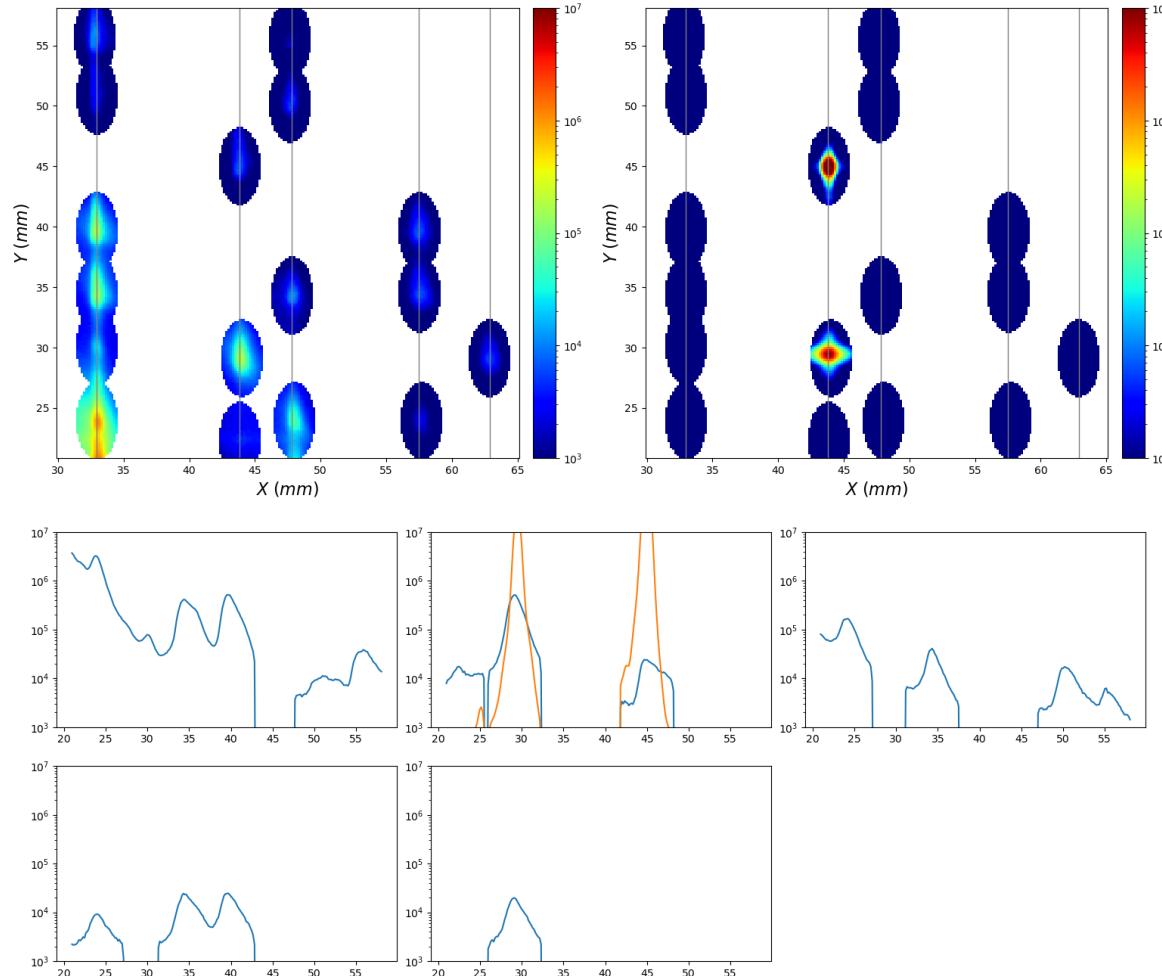
## Single meso, rotation\_z

```
{
  "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": 28.3
}
```



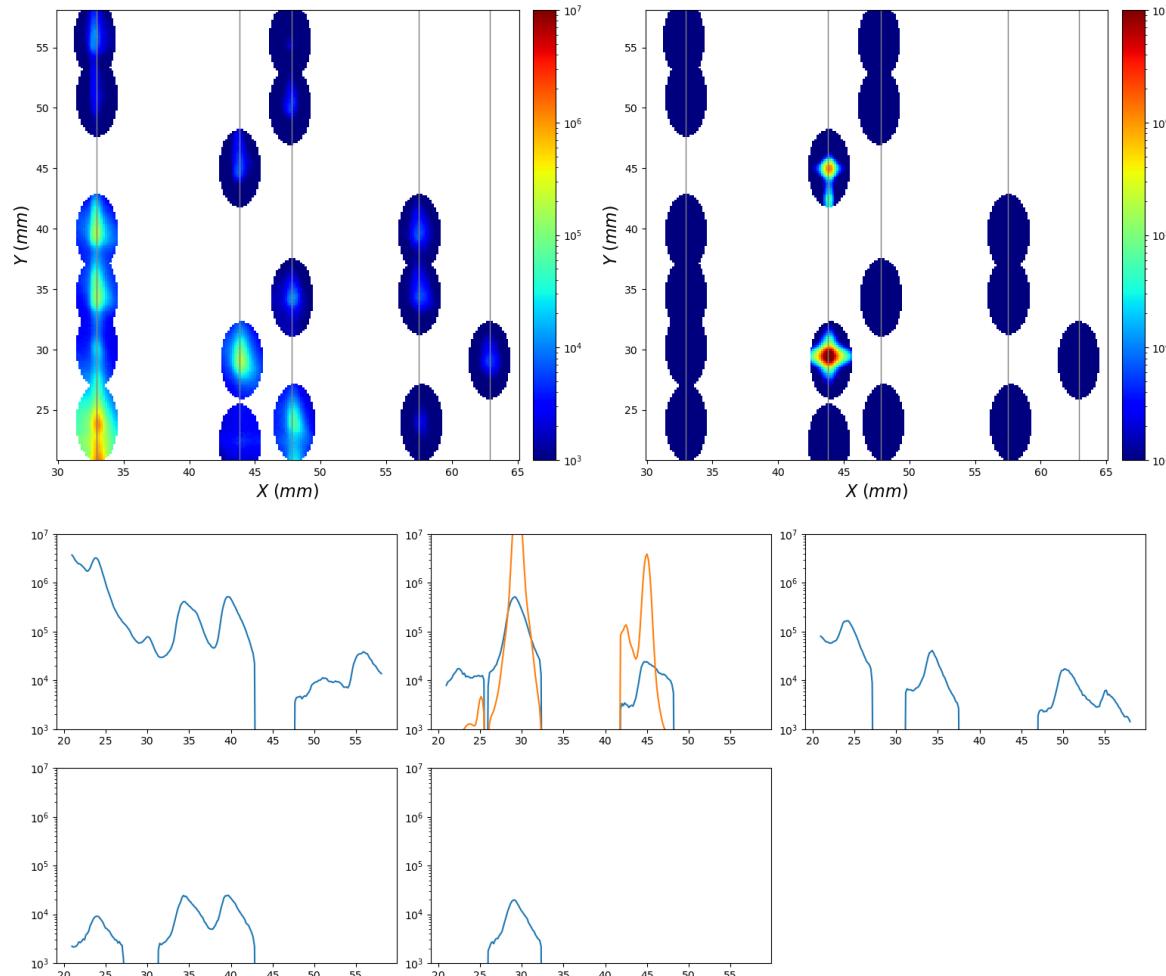
## Single meso, rotation\_z

```
{
  "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": 28.5
}
```



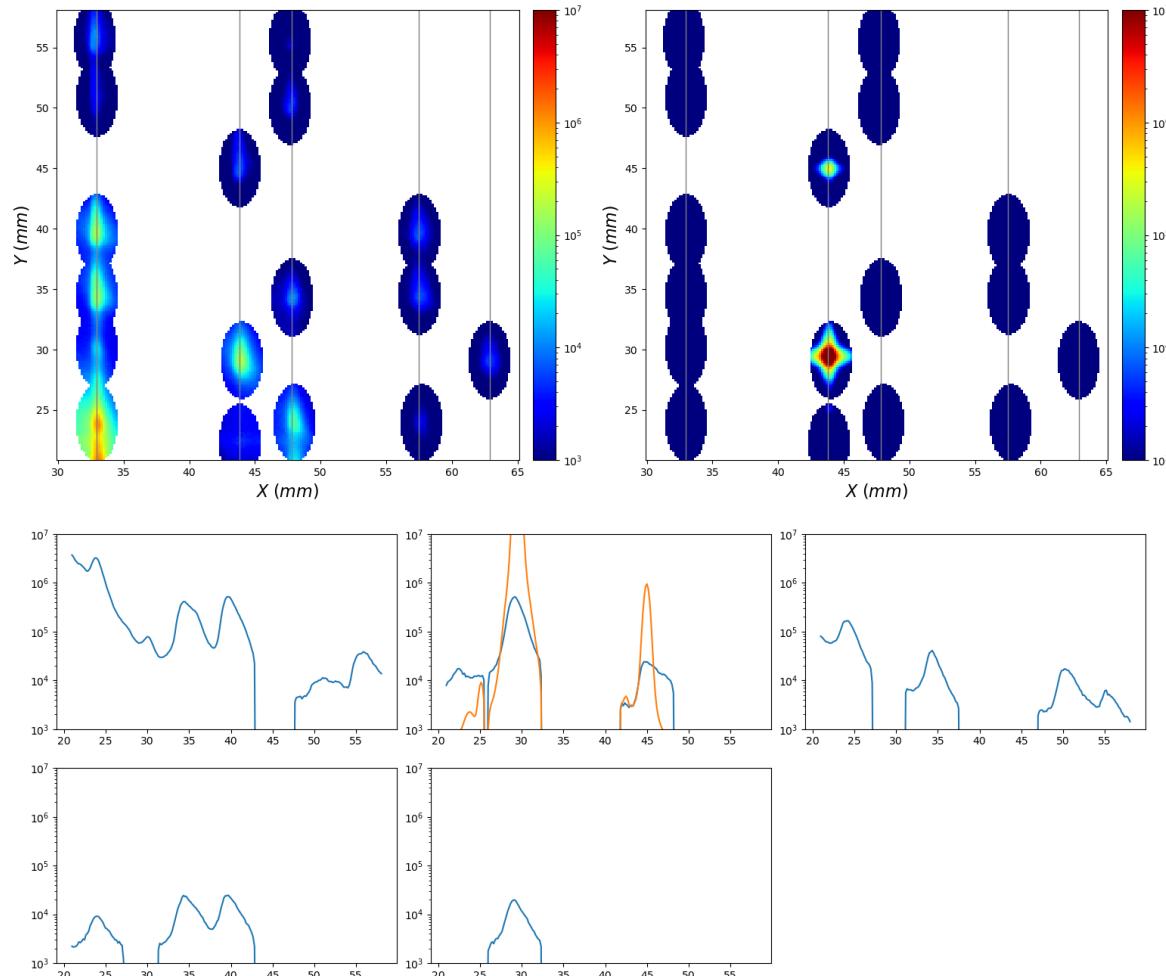
## Single meso, rotation\_z

```
{
  "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": 28.7
}
```



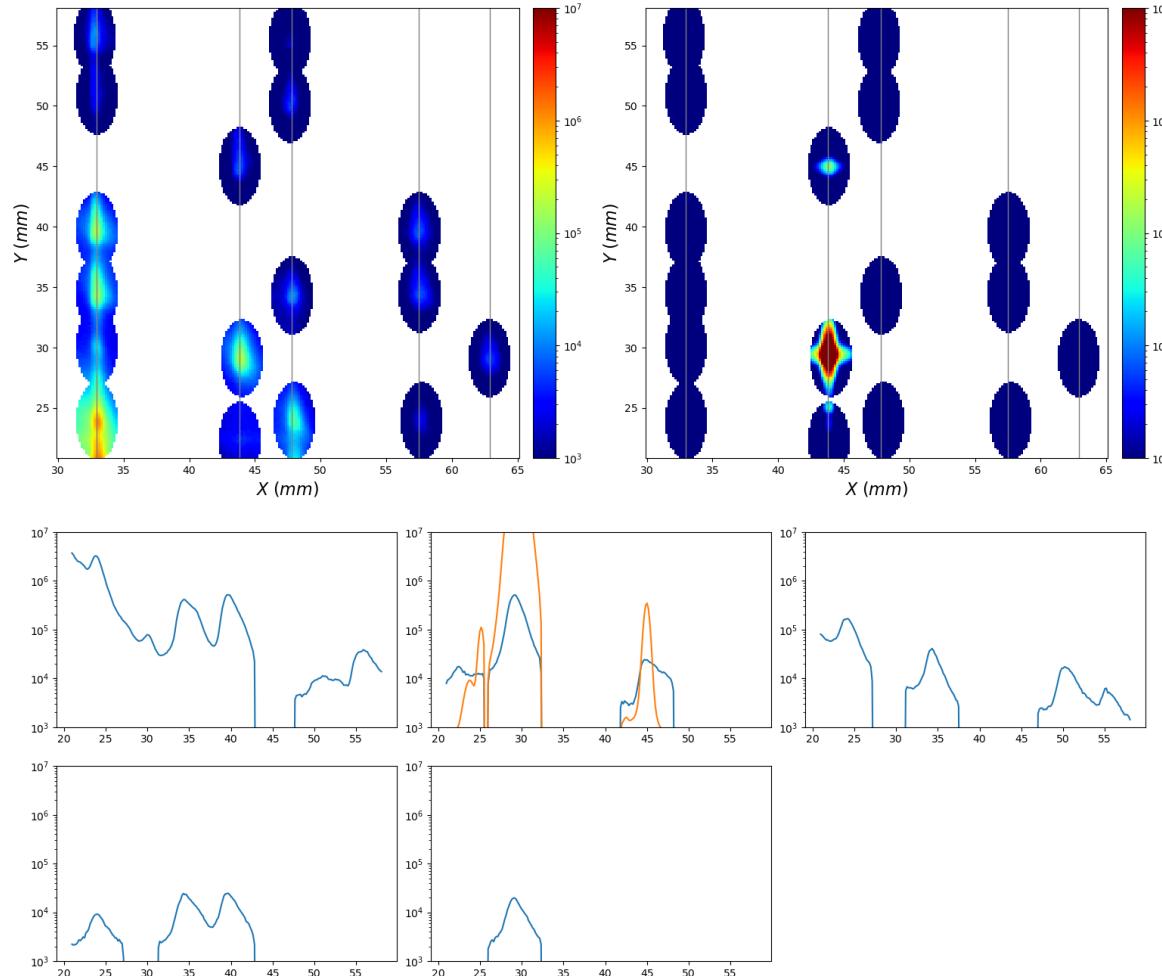
## Single meso, rotation\_z

```
{
  "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": 28.9
}
```



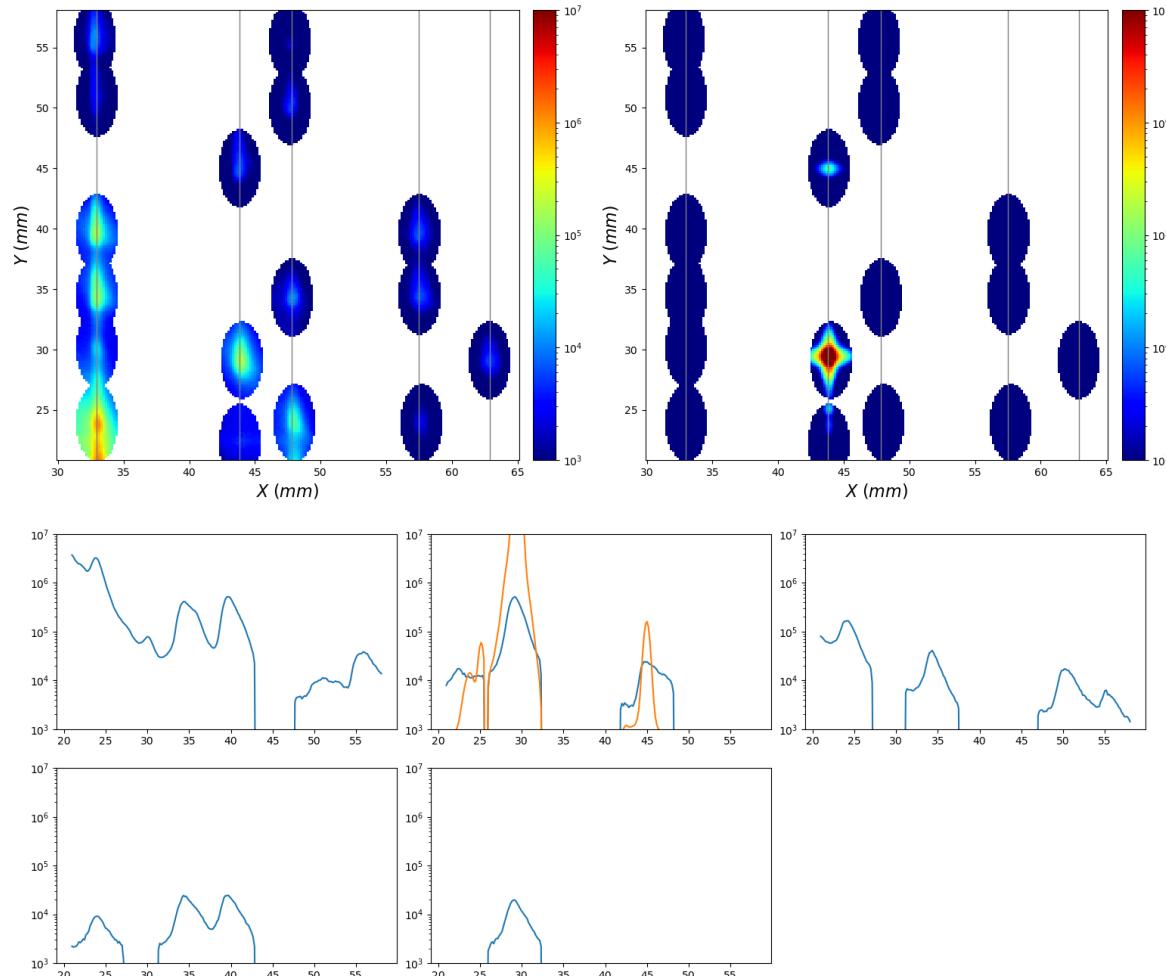
## Single meso, rotation\_z

```
{
  "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": 29.1
}
```



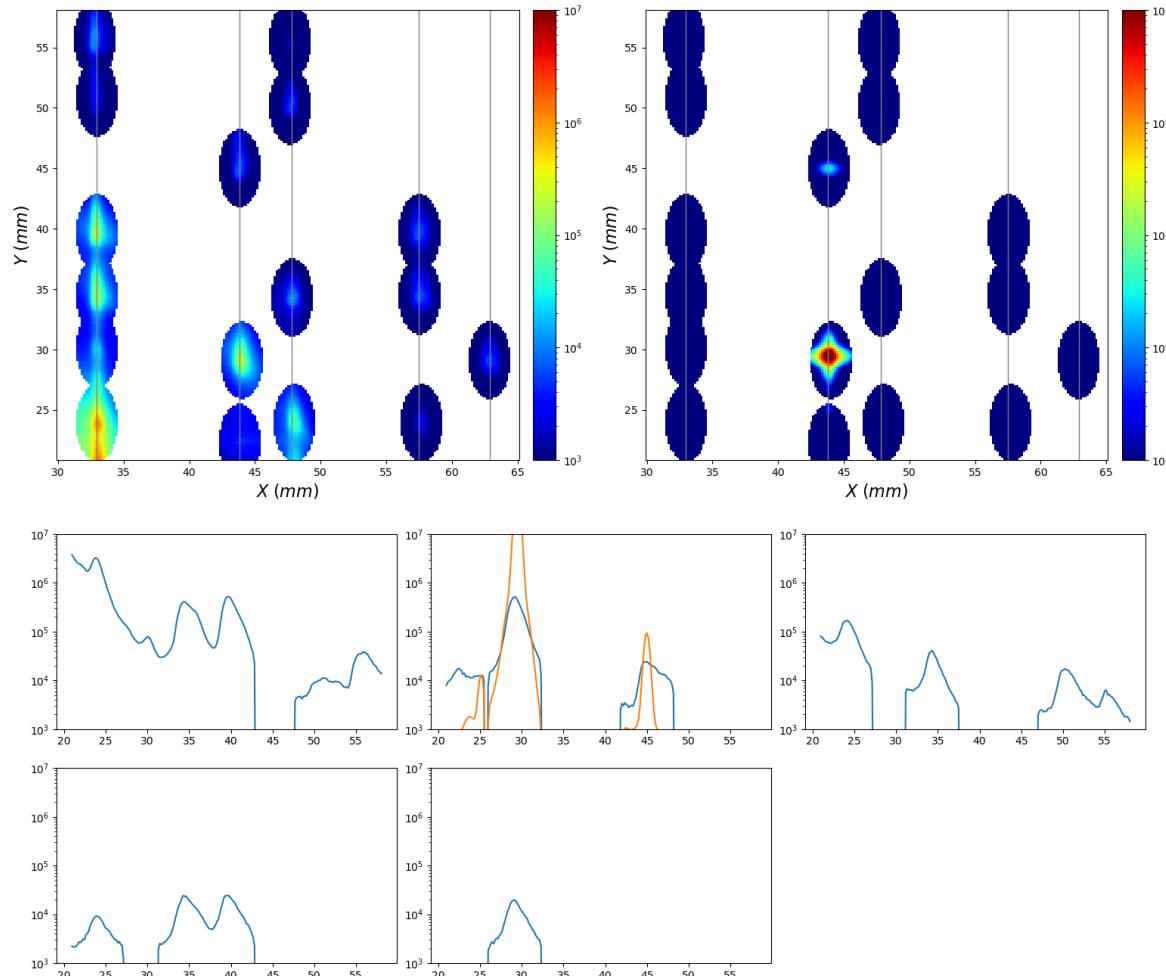
## Single meso, rotation\_z

```
{
  "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": 29.3
}
```



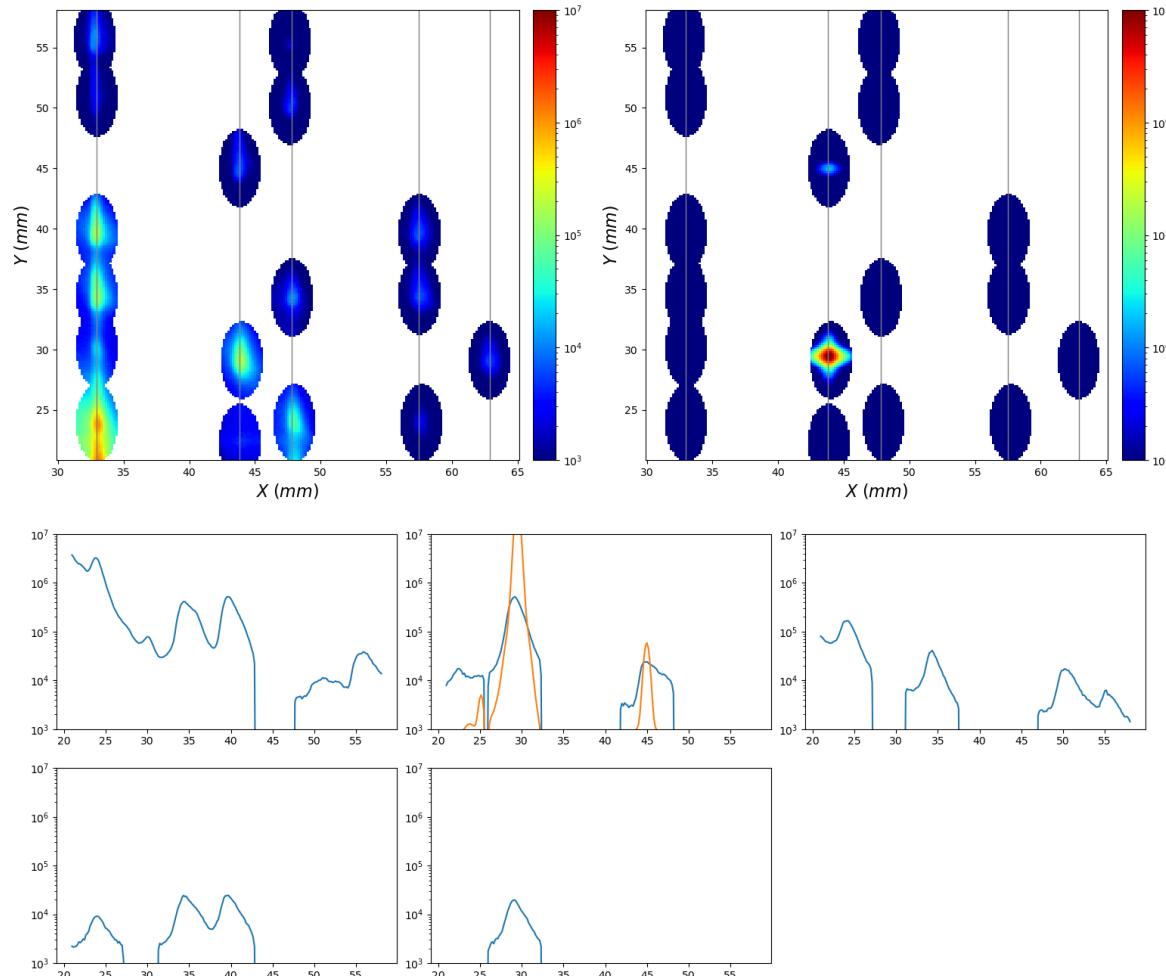
## Single meso, rotation\_z

```
{
  "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": 29.5
}
```



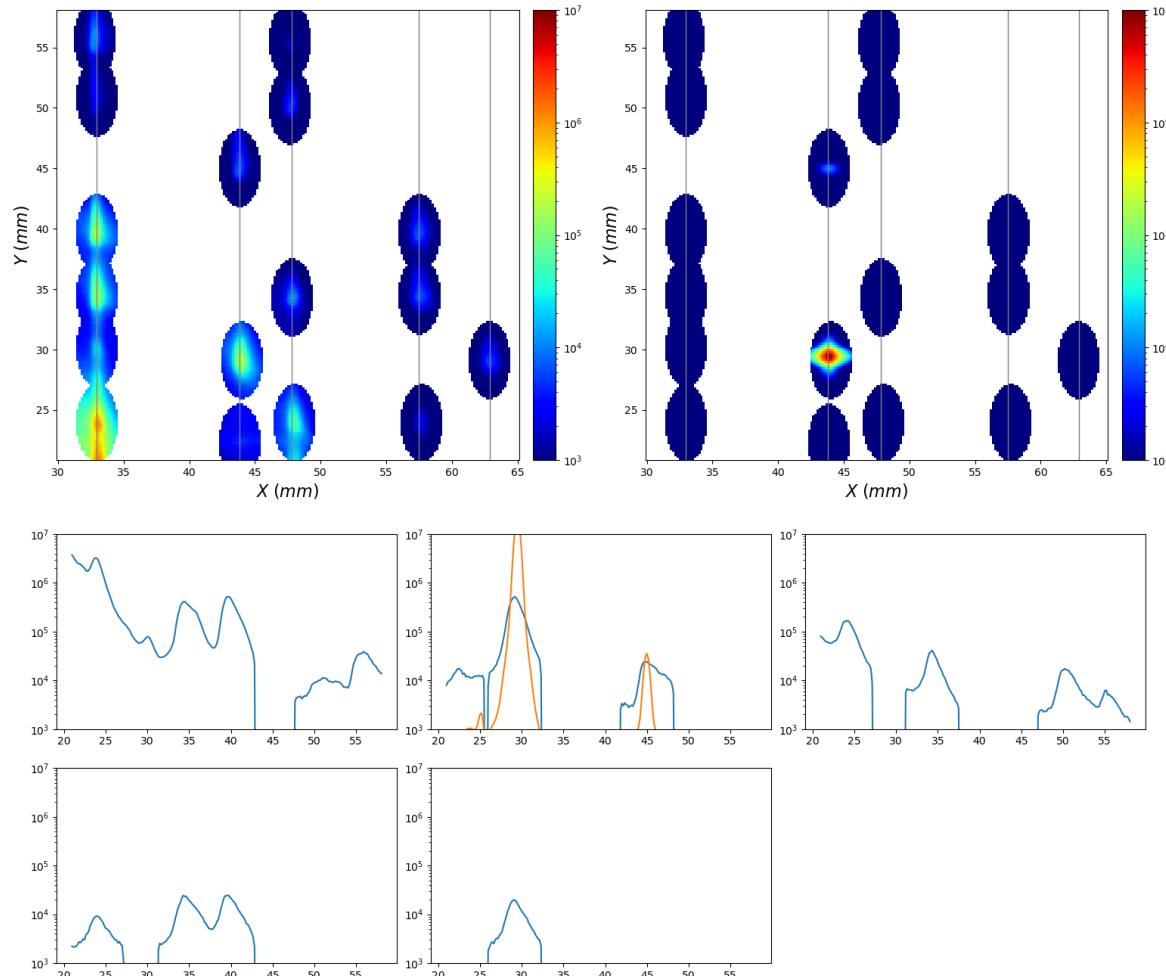
## Single meso, rotation\_z

```
{
  "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": 29.7
}
```



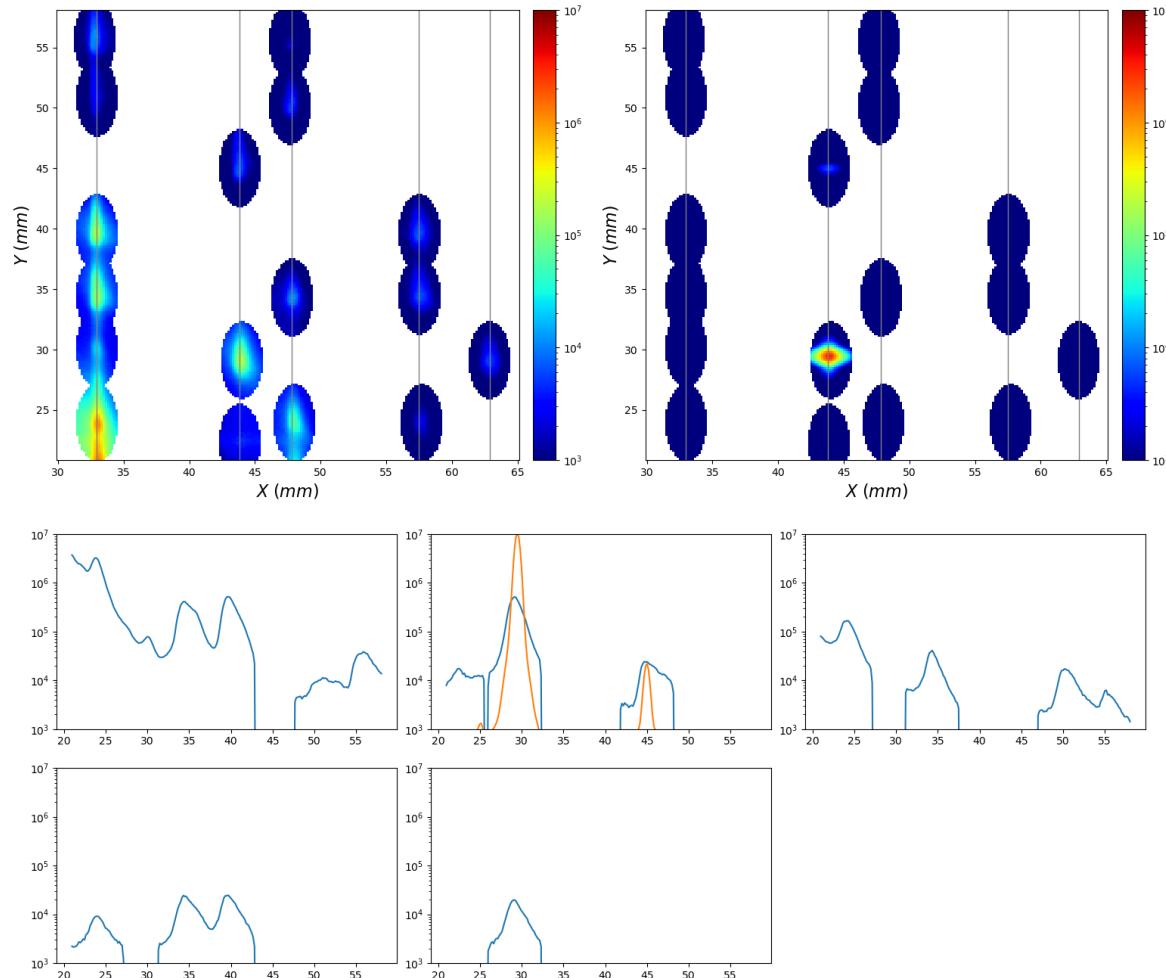
## Single meso, rotation\_z

```
{
  "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": 29.9
}
```



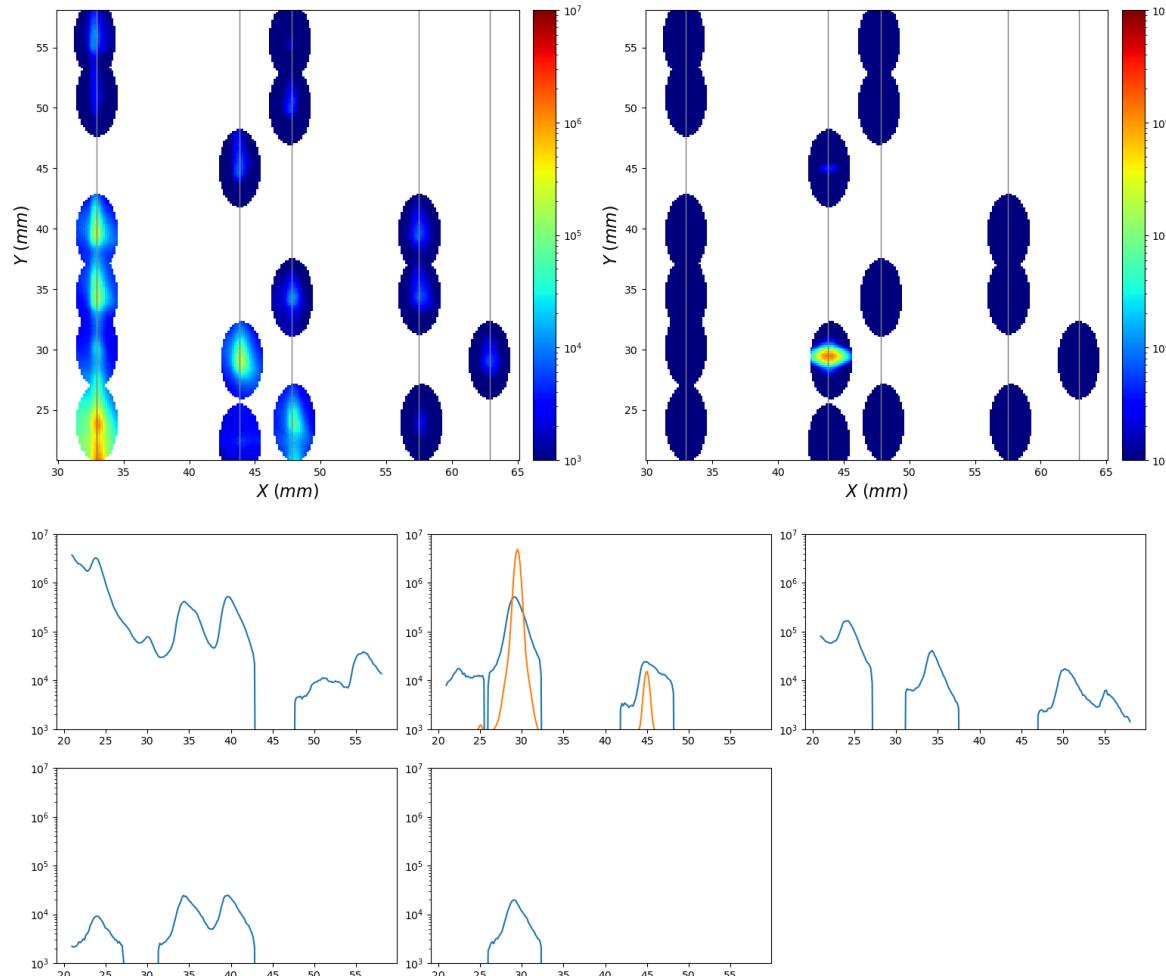
## Single meso, rotation\_z

```
{
  "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": 30.1
}
```



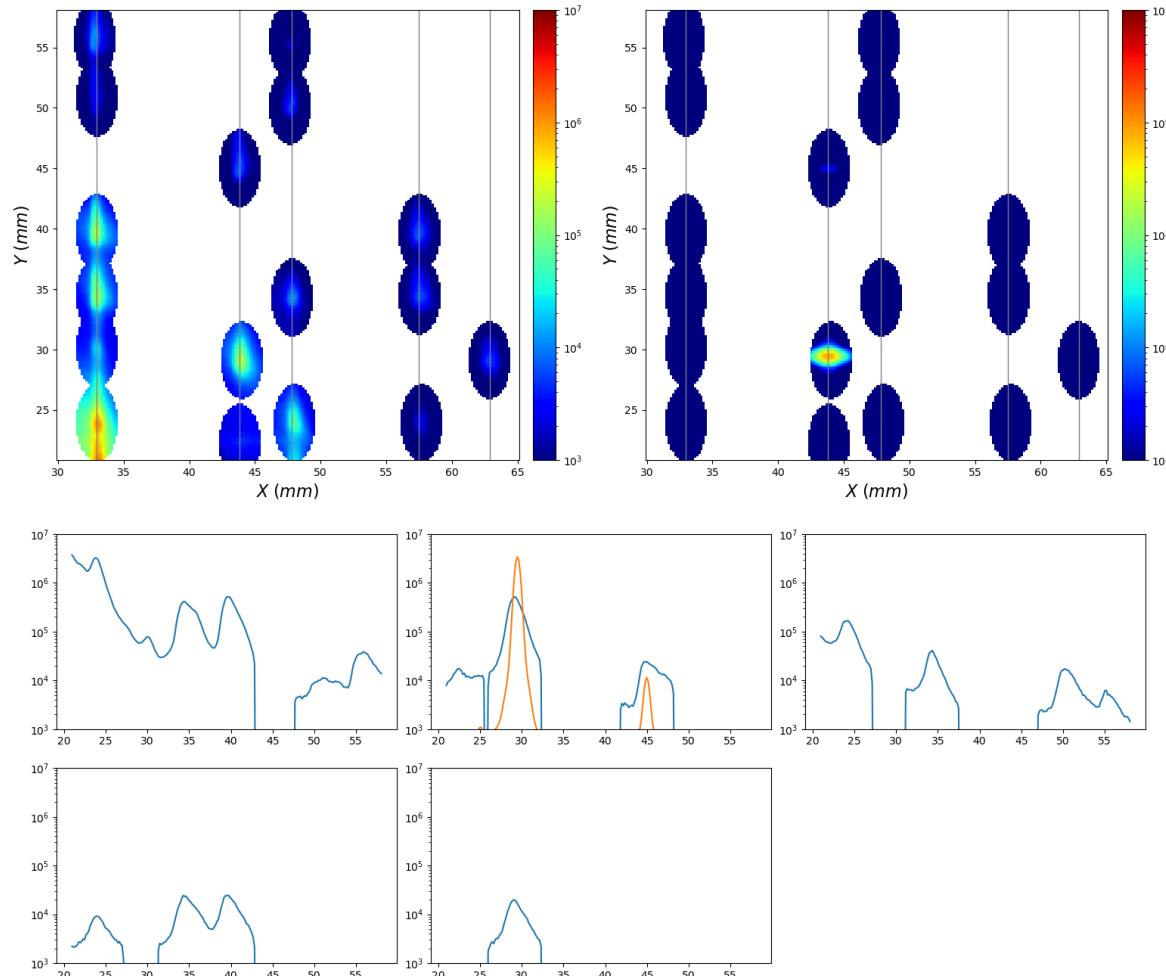
## Single meso, rotation\_z

```
{
  "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": 30.3
}
```



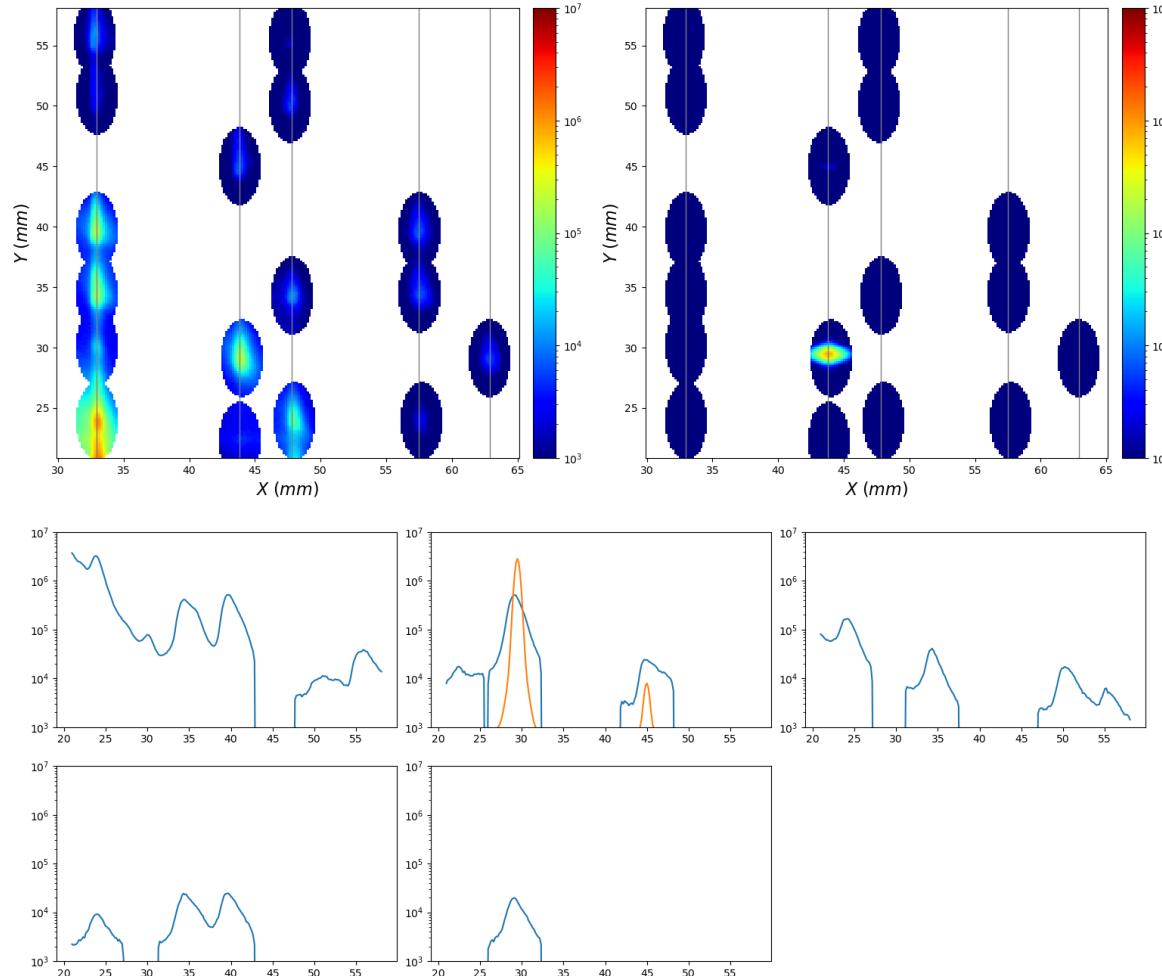
## Single meso, rotation\_z

```
{
  "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": 30.5
}
```



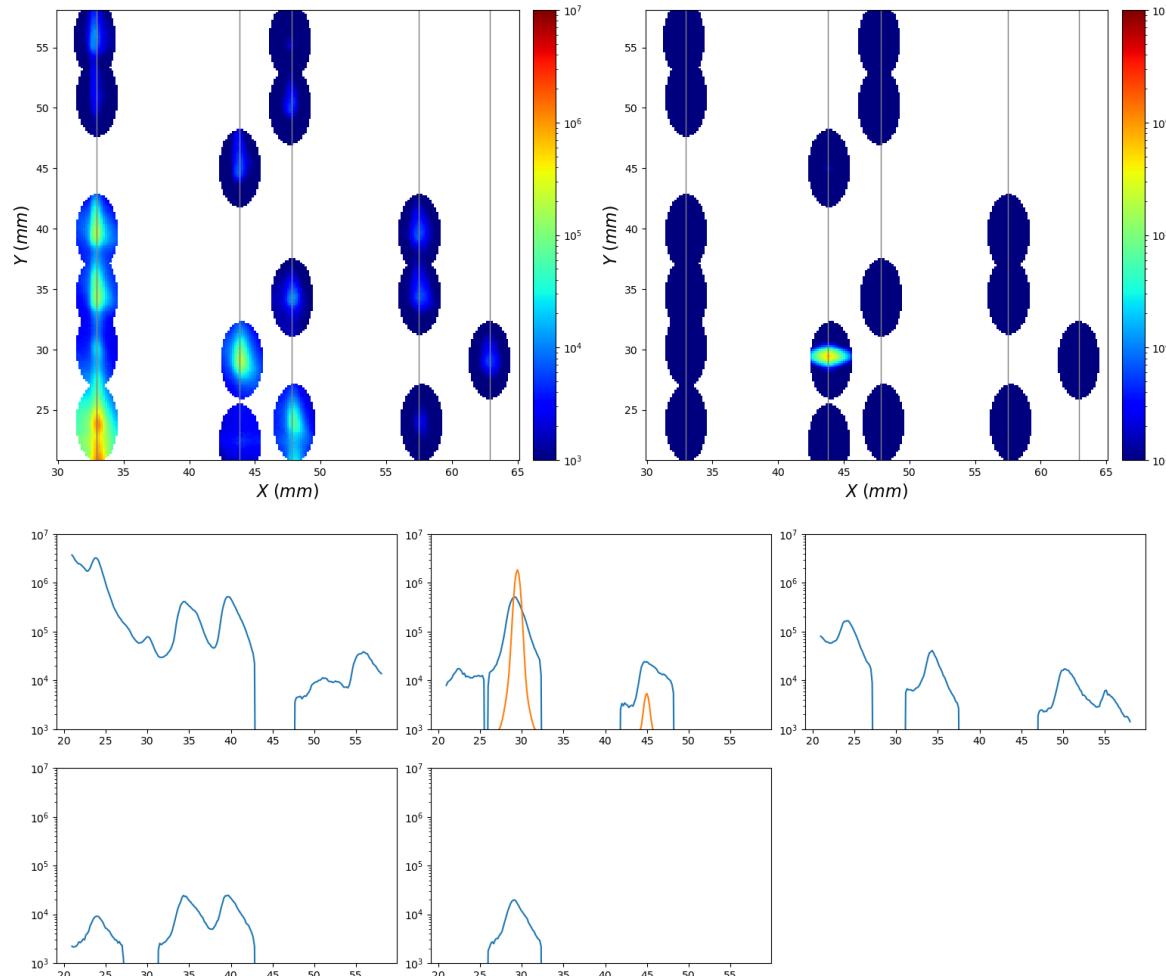
## Single meso, rotation\_z

```
{
  "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": 30.7
}
```



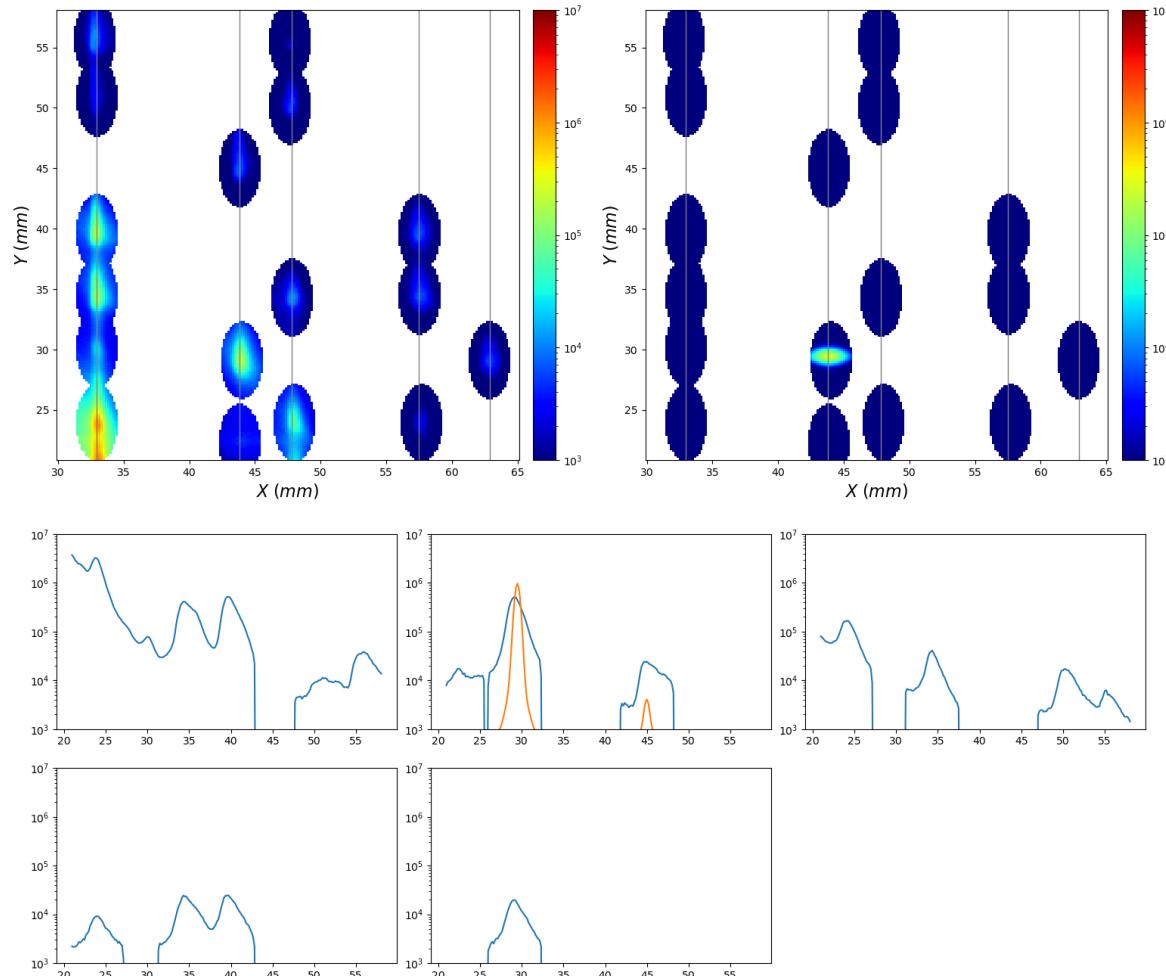
## Single meso, rotation\_z

```
{
  "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": 30.9
}
```



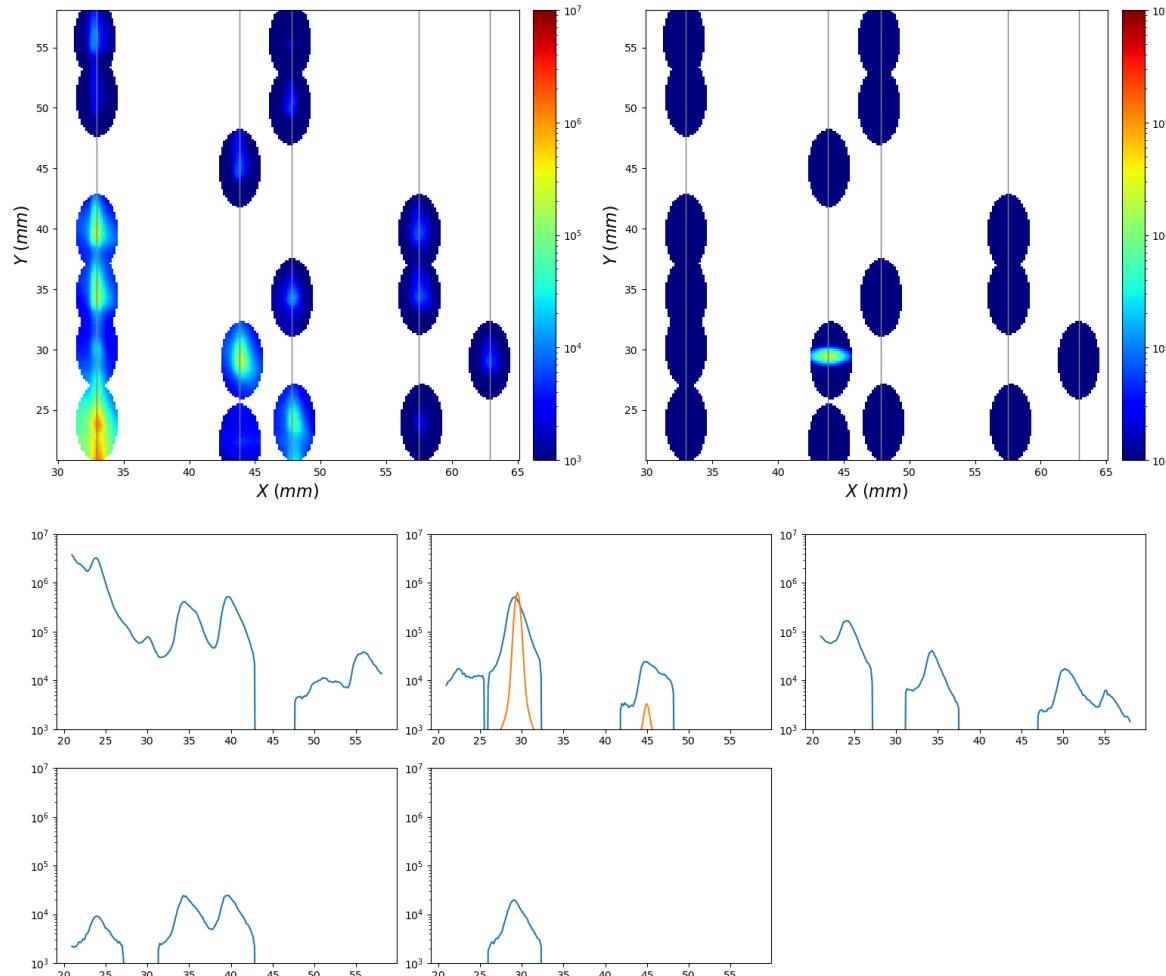
## Single meso, rotation\_z

```
{
  "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": 31.1
}
```



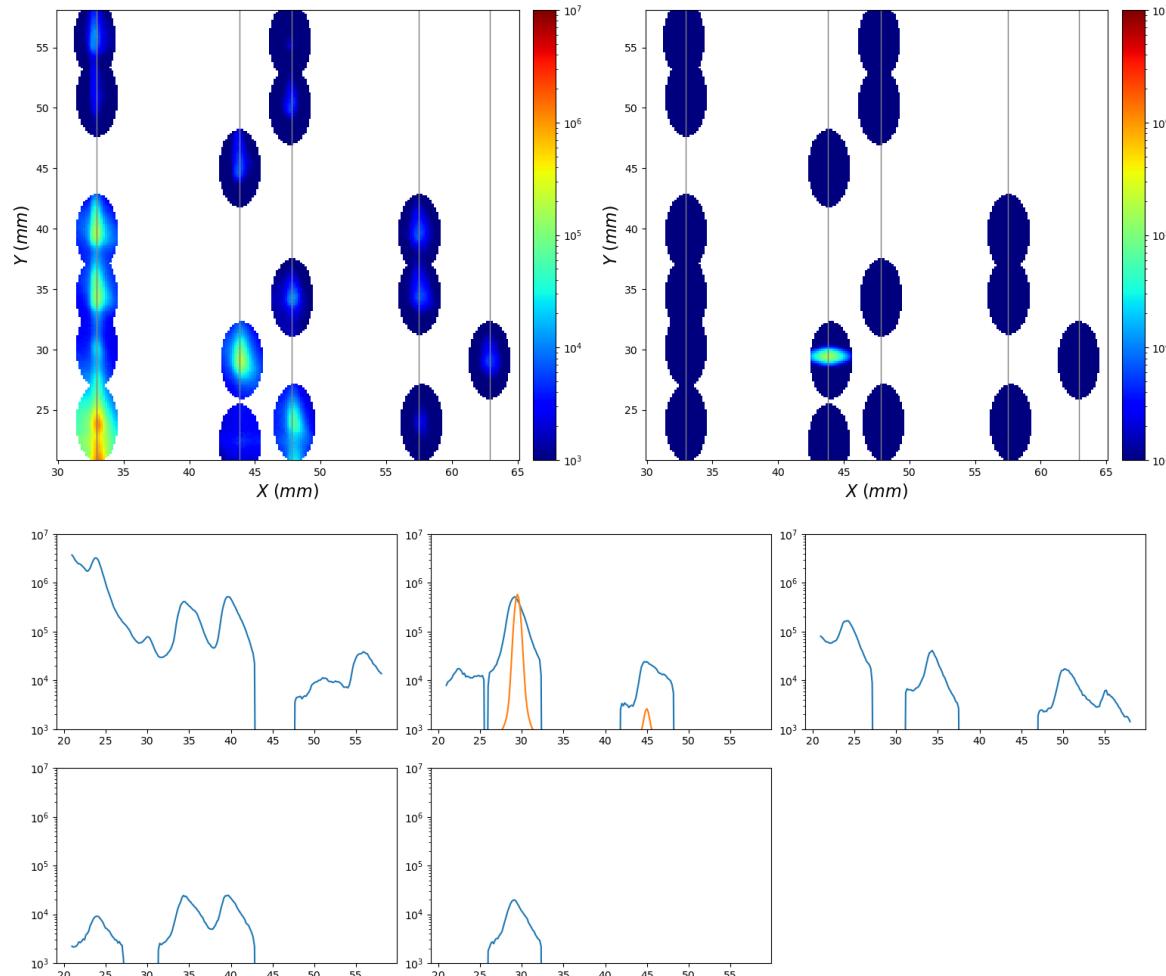
## Single meso, rotation\_z

```
{
  "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": 31.3
}
```



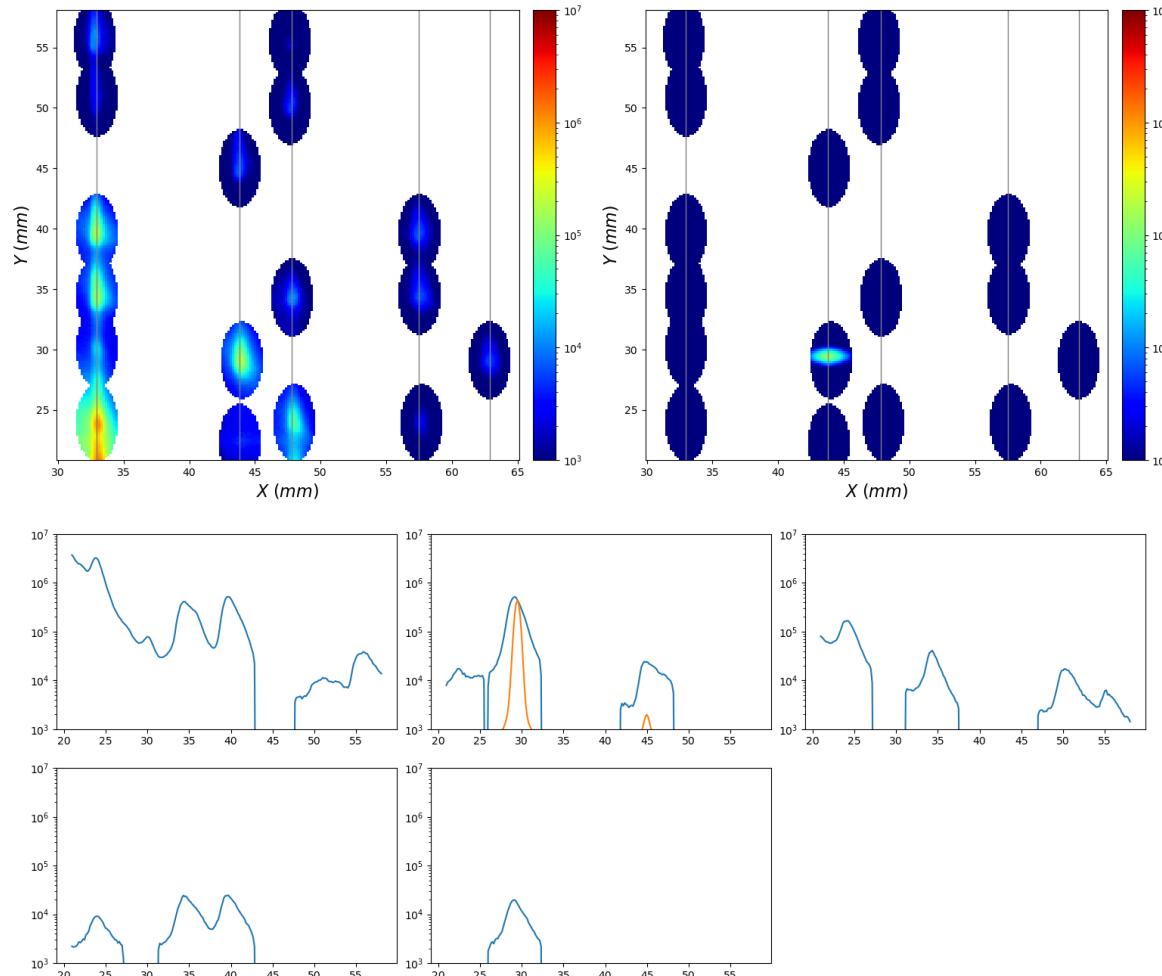
## Single meso, rotation\_z

```
{
  "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": 31.5
}
```



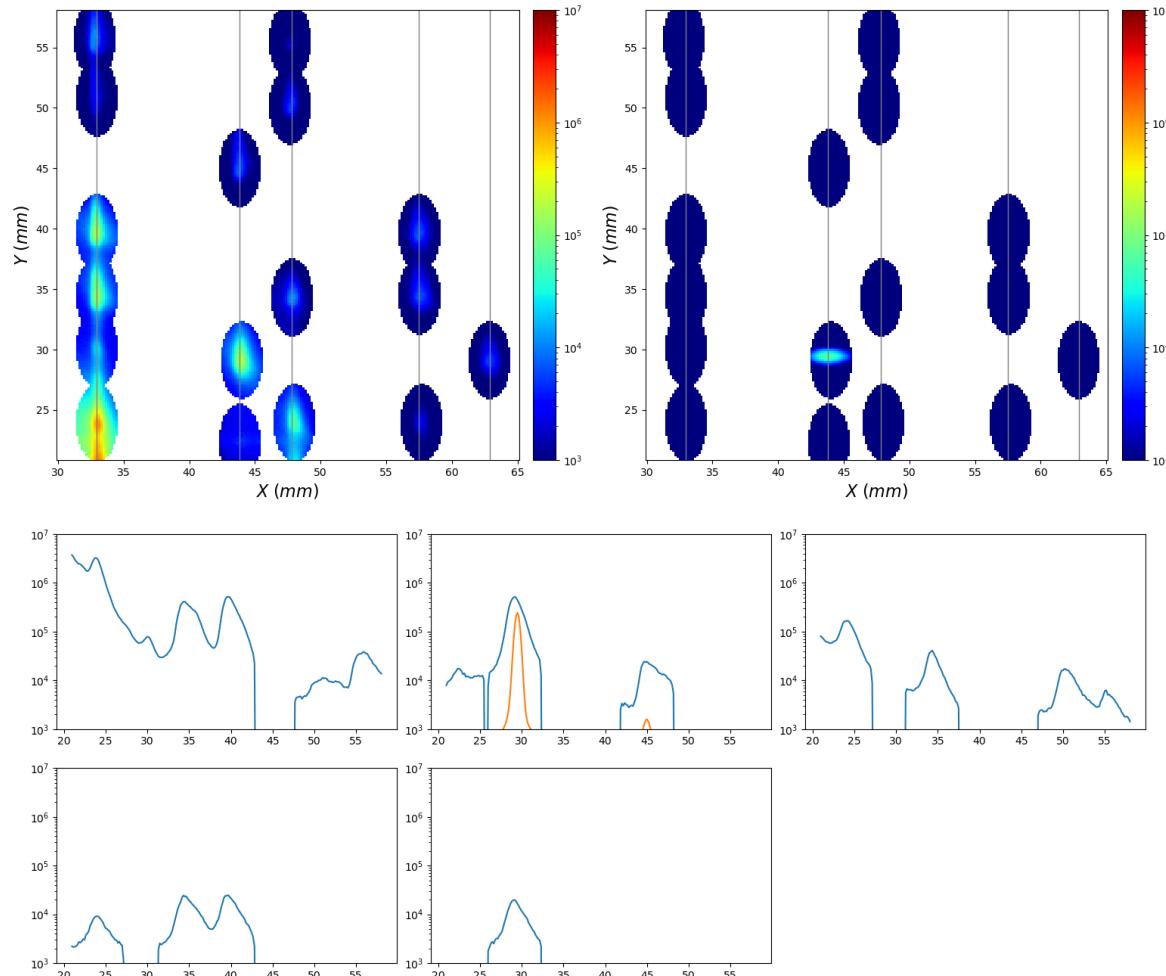
## Single meso, rotation\_z

```
{
  "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": 31.700000000000003
}
```



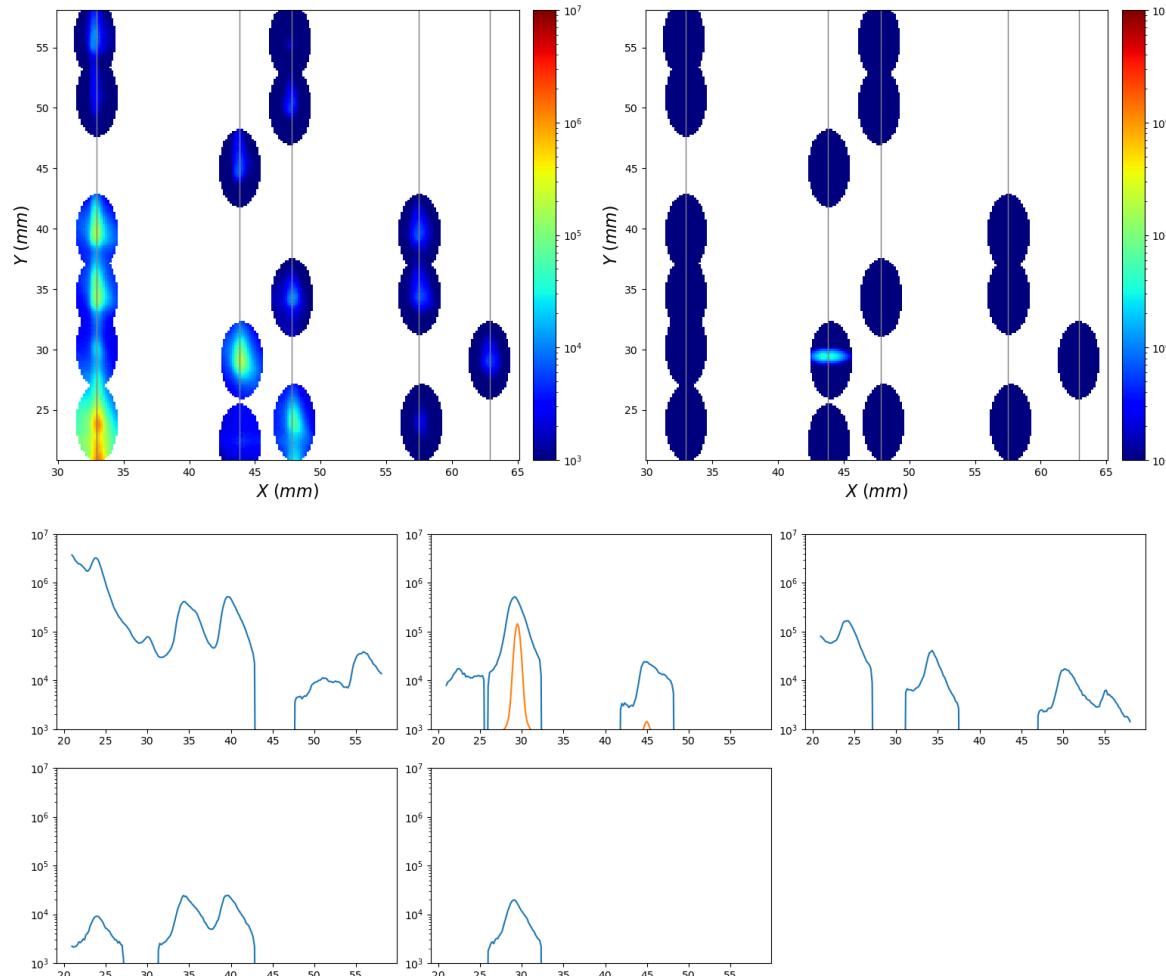
## Single meso, rotation\_z

```
{
  "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": 31.9
}
```



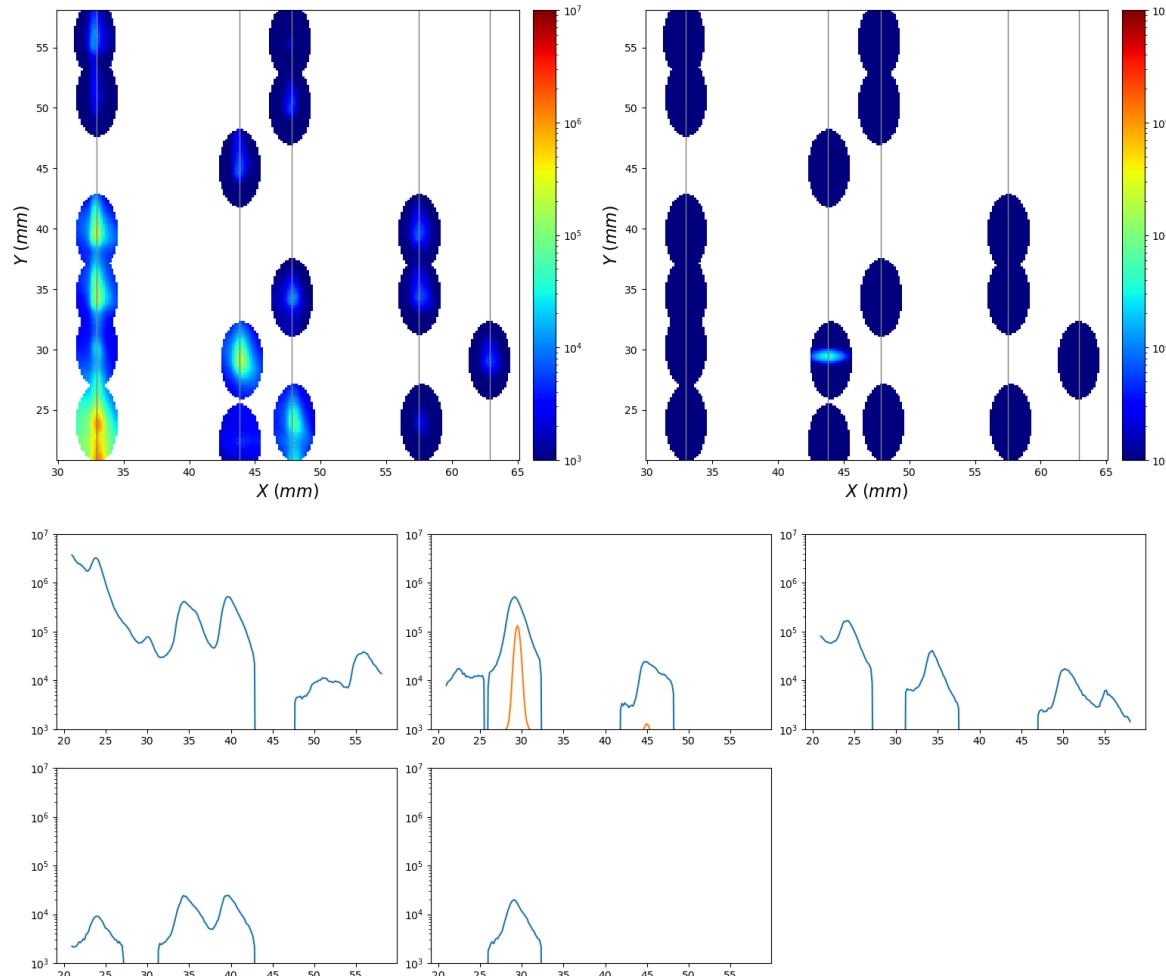
## Single meso, rotation\_z

```
{
  "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": 32.1
}
```



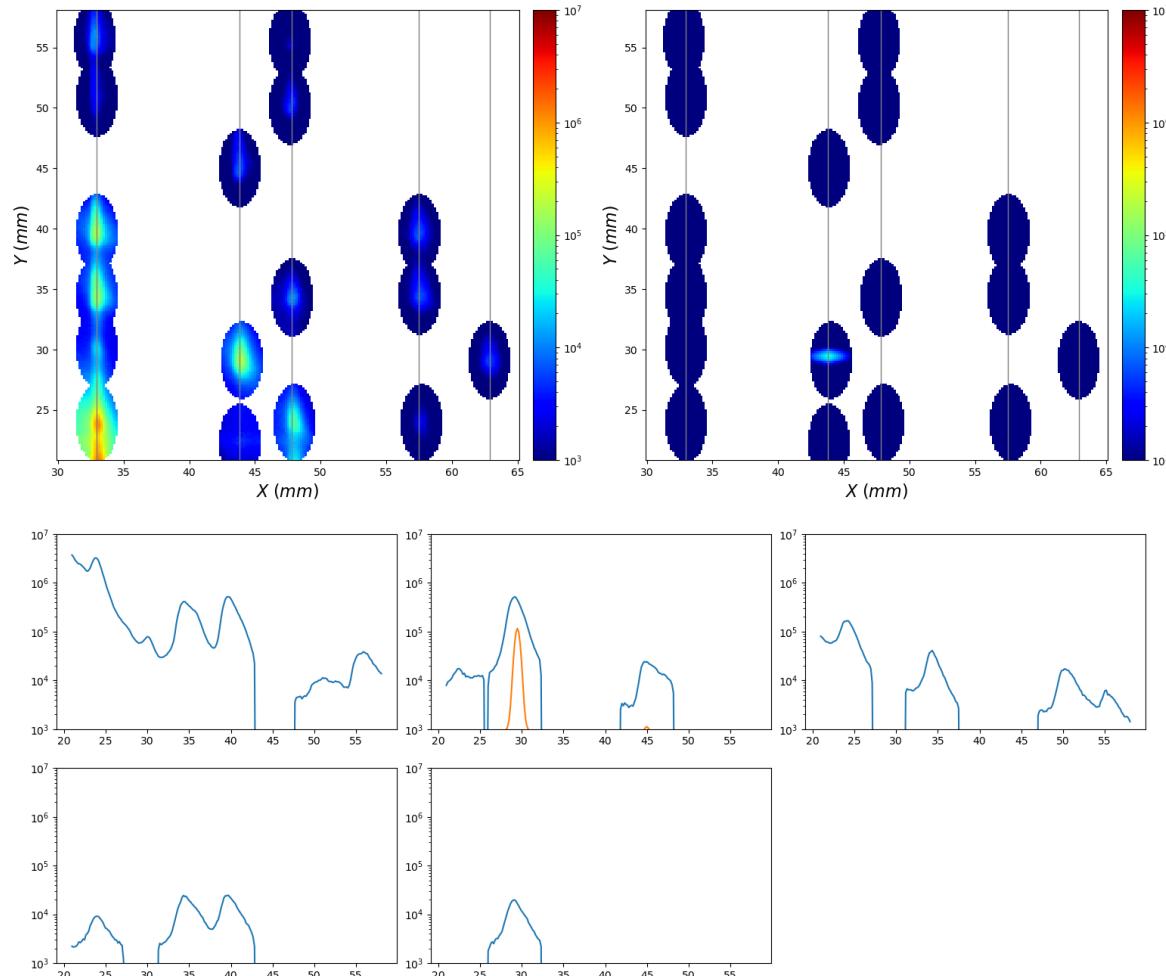
## Single meso, rotation\_z

```
{
  "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": 32.3
}
```



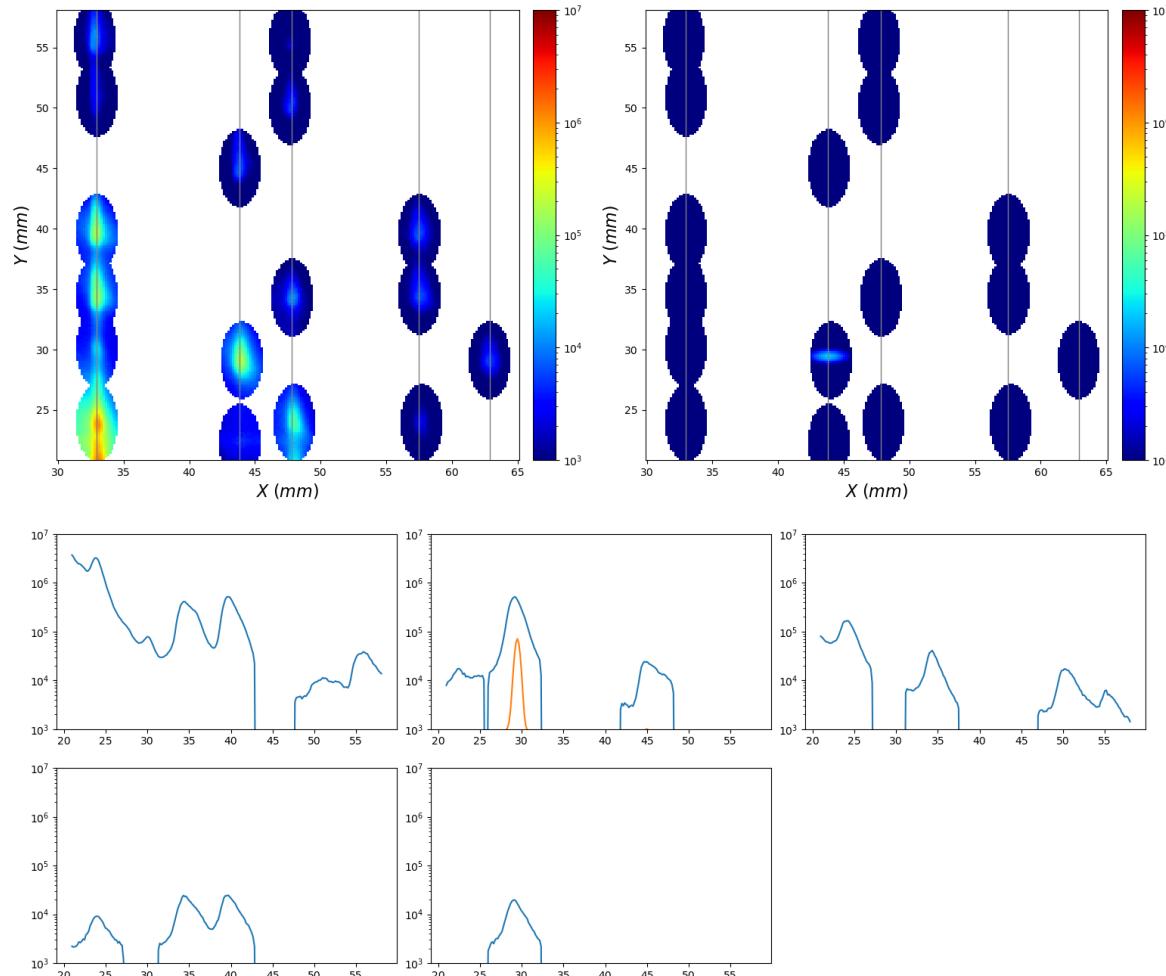
## Single meso, rotation\_z

```
{
  "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": 32.5
}
```



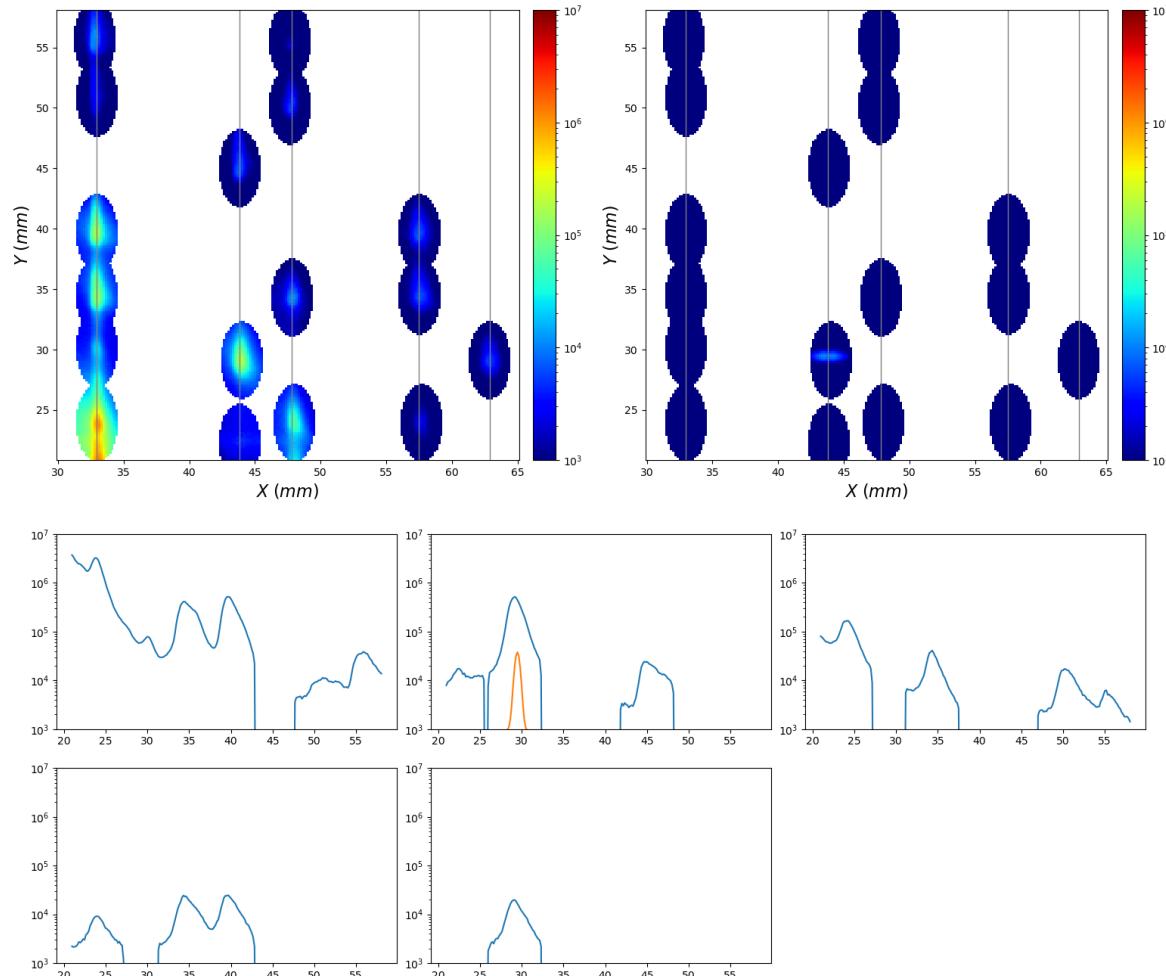
## Single meso, rotation\_z

```
{
  "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": 32.7
}
```



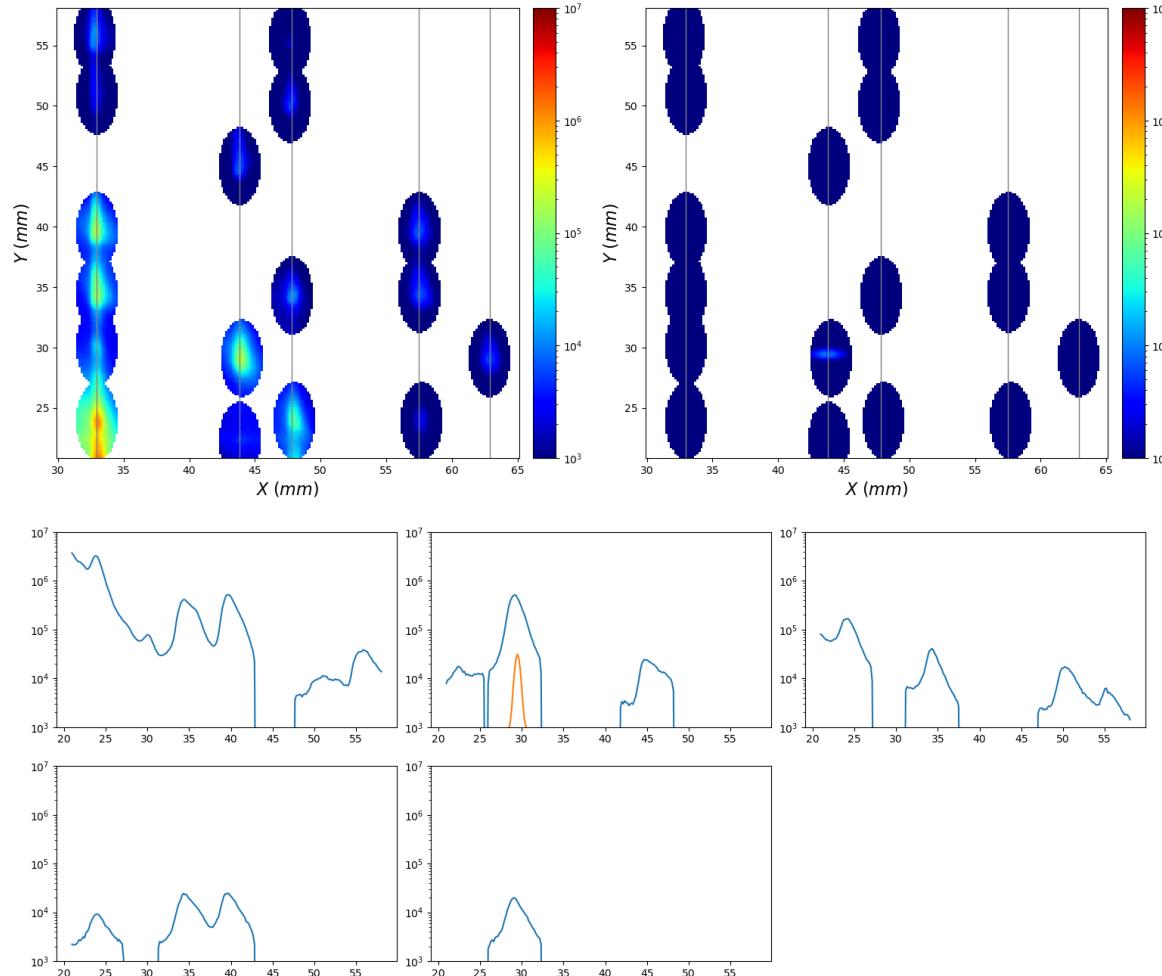
## Single meso, rotation\_z

```
{
  "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": 32.9
}
```



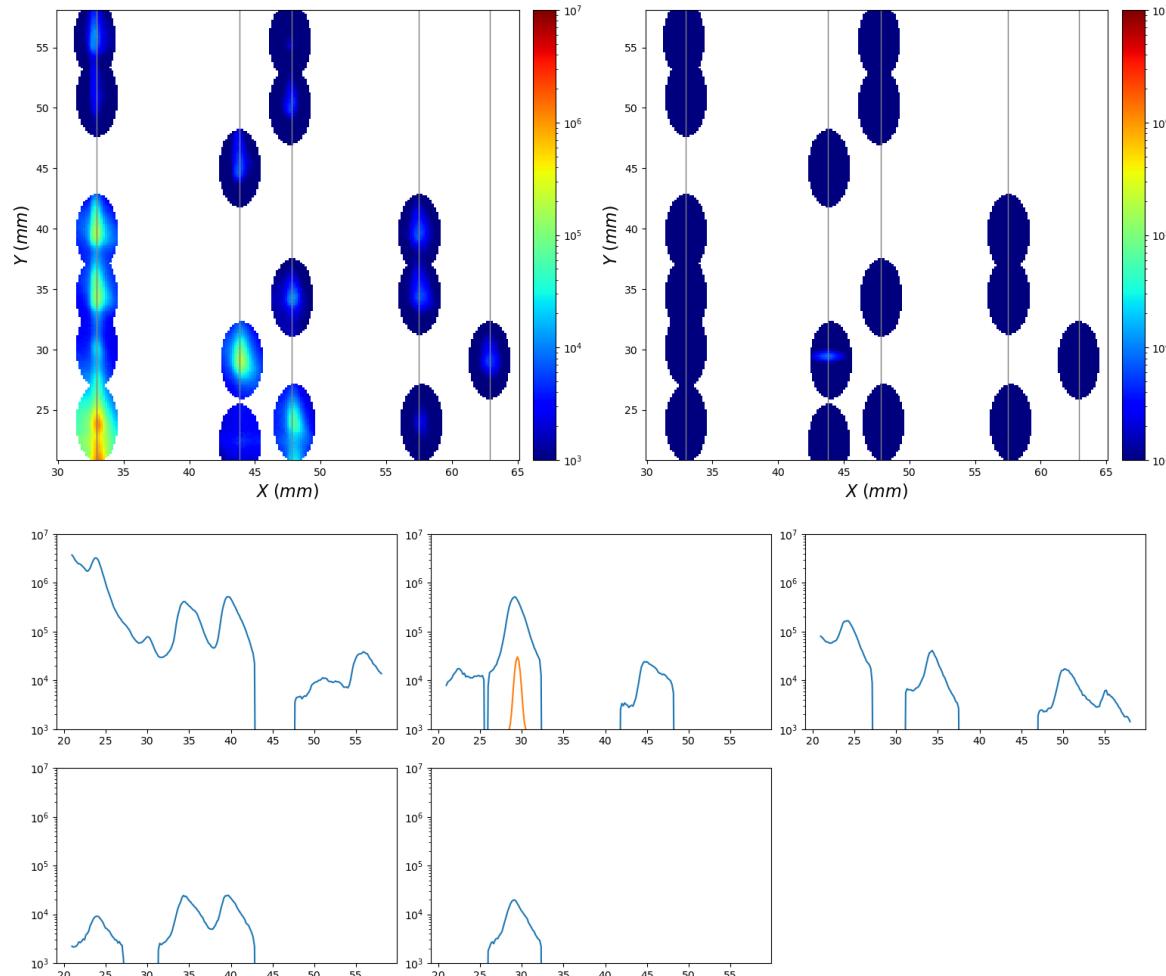
## Single meso, rotation\_z

```
{
  "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": 33.1
}
```



## 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": 33.3
}
```



## 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": 33.5
}
```

