

1f_haadf

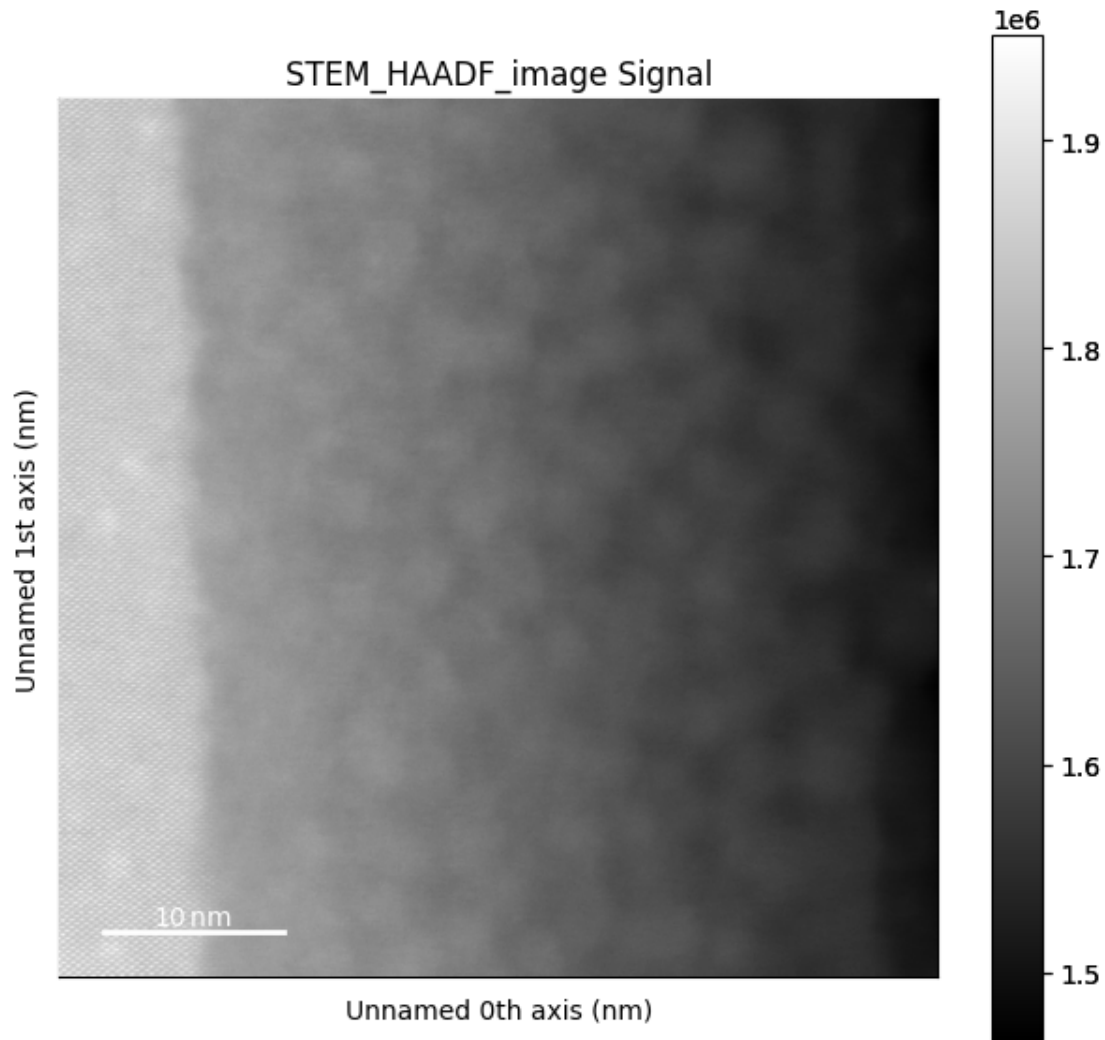
November 28, 2022

```
[2]: import numpy as np
import matplotlib.pyplot as plt
import hyperspy.api as hs
```

```
[3]: s = hs.load("datasett/STEM_HAADF_image.hspy")
s
```

```
[3]: <Signal2D, title: , dimensions: (|1024, 1024)>
```

```
[4]: s.plot()
```



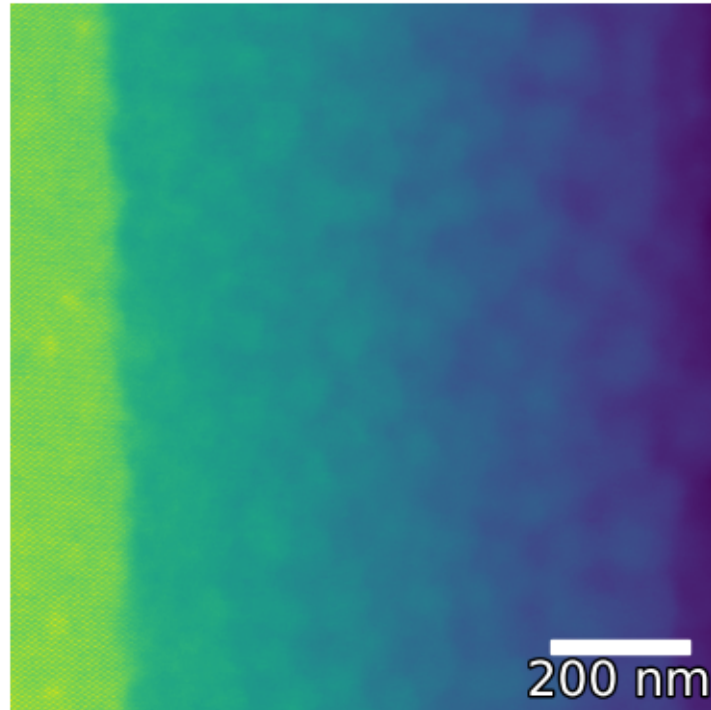
```
[18]: from mpl_toolkits.axes_grid1.anchored_artists import AnchoredSizeBar
import matplotlib.font_manager as fm
import matplotlib.path_effects as path_effects
fontprops = fm.FontProperties(size=18)

scalebar_kwargs = {'size': 200, 'label': '200 nm', 'loc': 4, 'frameon': False,
                    'color': 'white', 'size_vertical': 20, 'label_top': False, 'fontproperties':
                    path_effects}

def add_scalebar(ax: plt.Axes):
    scalebar = AnchoredSizeBar(transform=ax.transData, **scalebar_kwargs)
    # Denne legger til et svart omriss rundt scalebar teksten, for å gjøre den
    lettere å lese
```

```
scalebar.txt_label._text.set_path_effects([patheffects.  
↪withStroke(linewidth=2, foreground='black', capstyle="round")])  
ax.add_artist(scalebar)
```

```
[19]: fig, ax = plt.subplots()  
cax = ax.imshow(s)  
add_scalebar(ax)  
ax.axis("off")  
fig.savefig("1i/haadf", dpi=300, pad_inches=0, bbox_inches="tight")
```



```
[ ]:
```