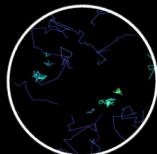
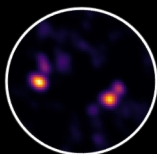
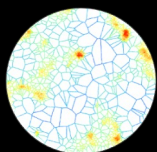
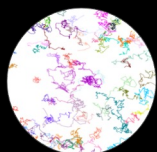


Workshop

Super Resolution Microscopy and Single Molecule Imaging

August 20th - 22th 2024

📍 ZMBP, Auf der Morgenstelle 32, 72076 Tübingen



Programme:

- Lectures
- Hands-on sessions
- Data analysis and interpretation

Approaches:

- Single-particle tracking photoactivated localization microscopy
- Photochromic reversion
- Enhanced super resolution radial fluctuation



```
def make_msd_df(df):
    count2=0 # added
    grouped= df.sort_values(["FRAME"]).groupby("TRACK_ID")
    msd_all=[]
    for i in grouped["TRACK_ID"].unique():

        s= grouped.get_group(i[0])
        if s.shape[0]>5: #added
            count2+=1 #added
            frames= list(s["FRAME"])
            tid=list(s["TRACK_ID"])
            #print(frames)

            col= s[["POSITION_X", "POSITION_Y", "POSITION_Z"]]
            t= col.to_numpy()
            msd, rmsd = compute_msd(t)
            m= np.column_stack((msd, rmsd, tid))
            #print(m)
            if count2== 1:
                msd_all.append(m)
```

