



Optimizing the
Street-Safety
of a Unicycle

Kristin Ohlmann

Optimizing the Street Safety of a Unicycle Through Maths-Inspired Decorations

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Super Reflectable Camo & Black X +

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Super Reflectable Camo & Black Paracord 550 Type III

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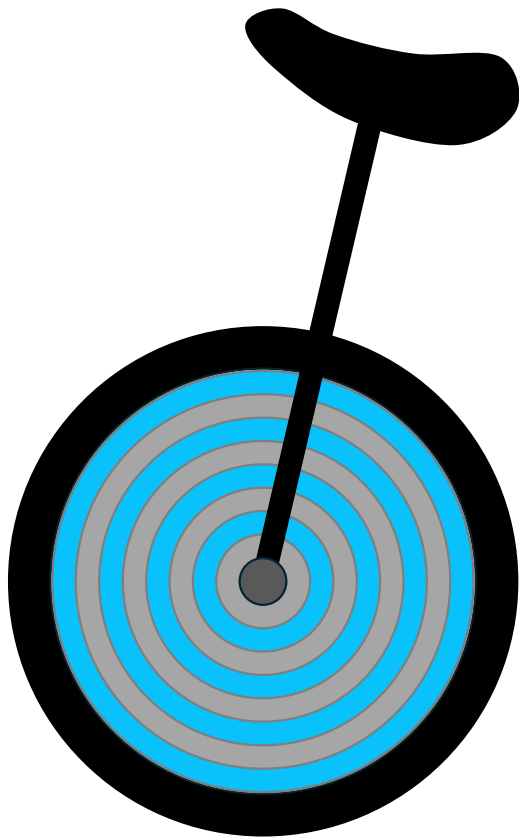
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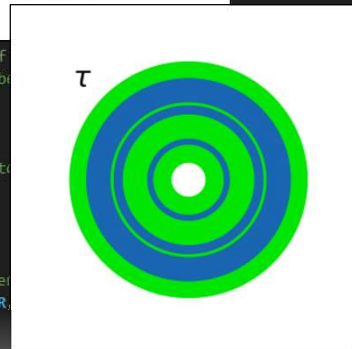
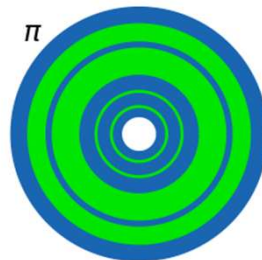
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```

Circles_CirclePlots.py U X  Circles_1D_optimization.py U  Circles_2D_optimization.py U  CirclesFunc.py M
Circles_CirclePlots.py > ...
1  import numpy as np
2  import matplotlib.pyplot as plt
3  from Auxiliary import CirclesFunc as func
4
5  # measurements of the wheel and stripes (in meters)
6  r0=0.035 # radius of the hub
7  R= 0.24 # maximum stripe pattern extension
8  w= 0.006 # width of each stripe
9
10 # key numbers:
11 # (for historical reasons, digits behind the decimal point det
12 v_nkey=[np.pi/10, 2*np.pi/10]
13 v_sTitles=["$\pi$", "$\\tau$"] # associated labels
14 v_Ncol=[2, 2] # number of alternating colors (-1 = one color
15 s_mode="area" # function can compare "area" or "ringnum" (i.e., number of
16 fl_output=1 # 1 if computed areas/ringnumbers and rope lengths shall be
17
18
19 ## compute stripe patterns according to all parameter sets + compare
20 v_comp=[None]*len(v_nkey) # for all maximum reflective stripecounts/areas to
21 figs=[]
22 axes=[]
23 for k_rep in range(len(v_nkey)):
24     # stripe pattern:
25     # (radii, stripe indices, area/ringnum of best color, sorting index, len
26     v_comp[k_rep], v_r, v_len, v_idxcol, idx = func.stripes(v_nkey[k_rep], R
27
28     # visualize the resulting stripe pattern
29     fig,ax = plt.subplots(figsize=(3,3))
30
31     # color palette: first color is assigned to most prominent segment
32     M_col=np.array([[0, .9, 0],[.1, .4, .7],[0, .8, .9],[0, 0.5, 0], [0, .85, 0.3],\
33                   [0.9, 1, 0], [0.6, 0.35, 0.7],[0.7, 0.33, 0.56], [0.9, 0.5, 0], [.5, .5, .5]])

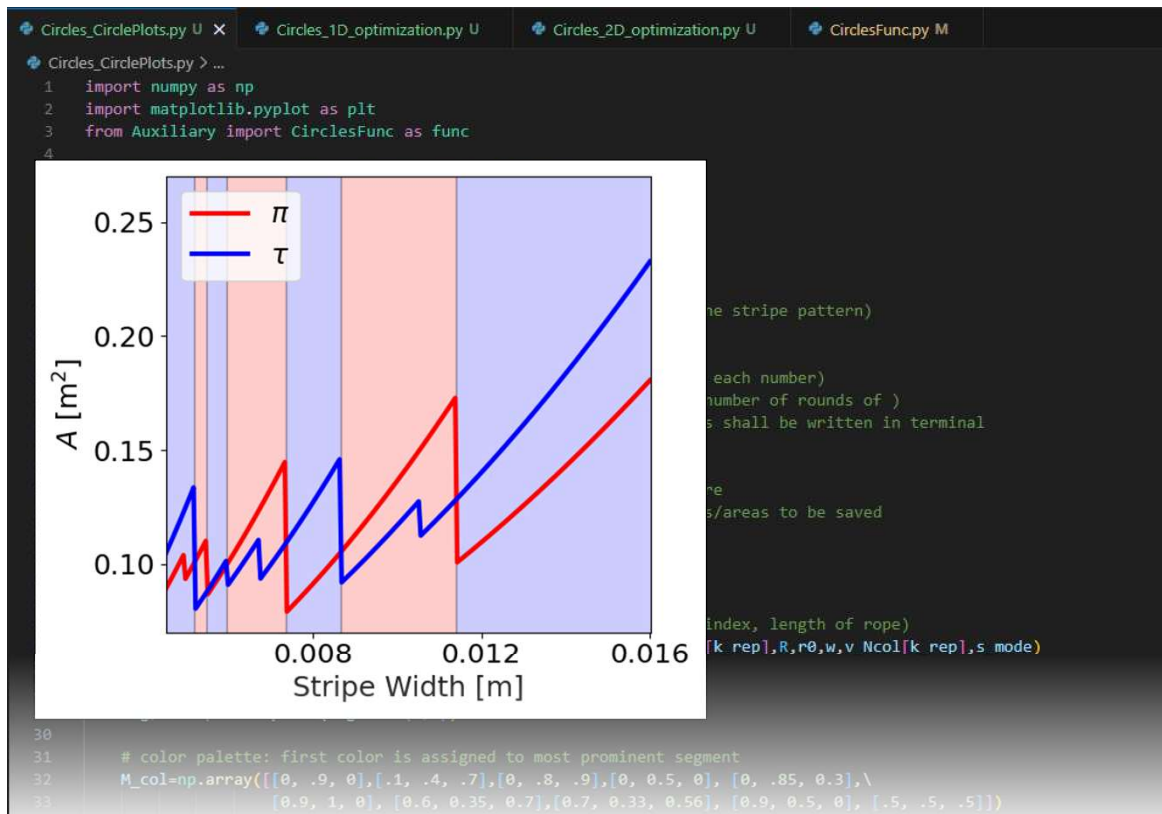
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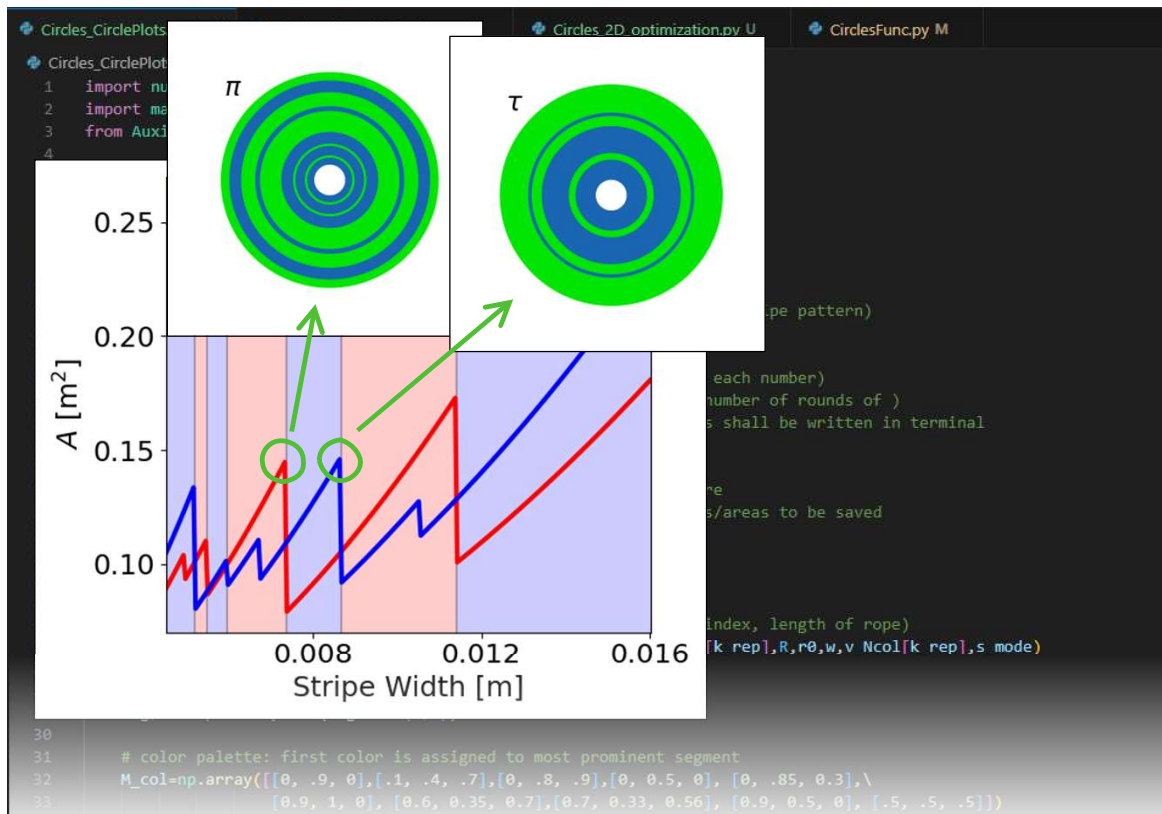
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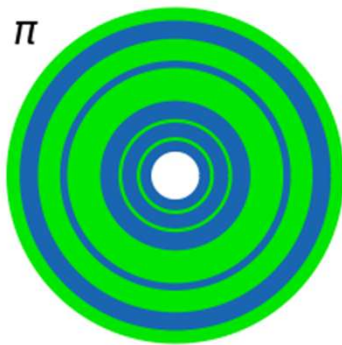
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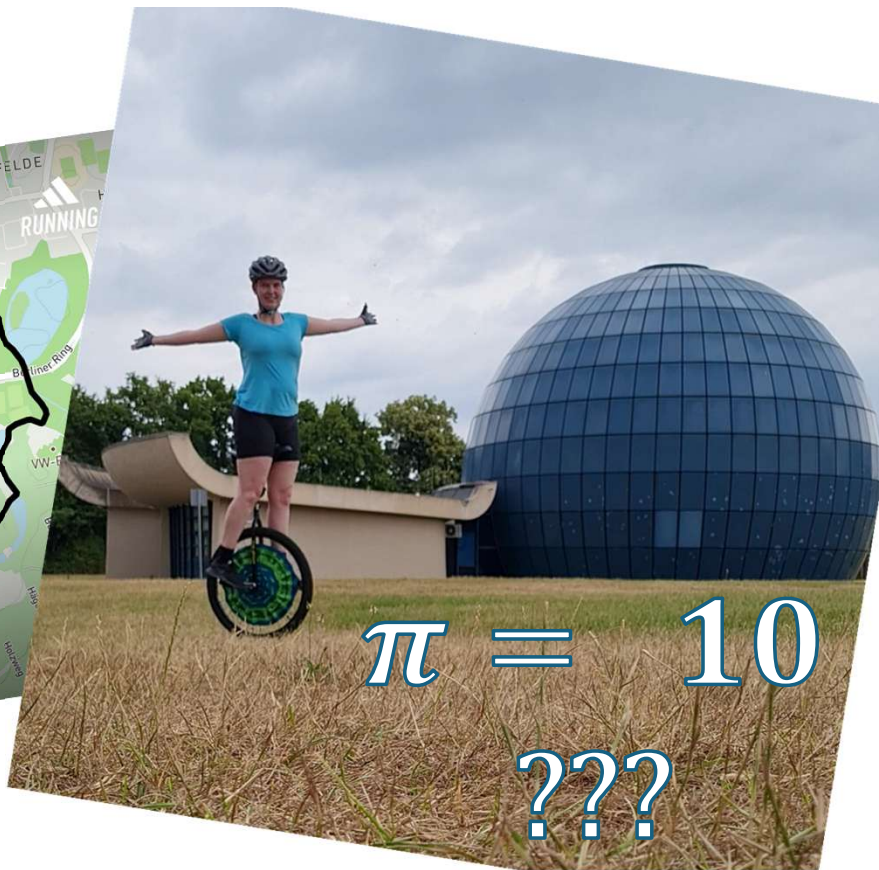
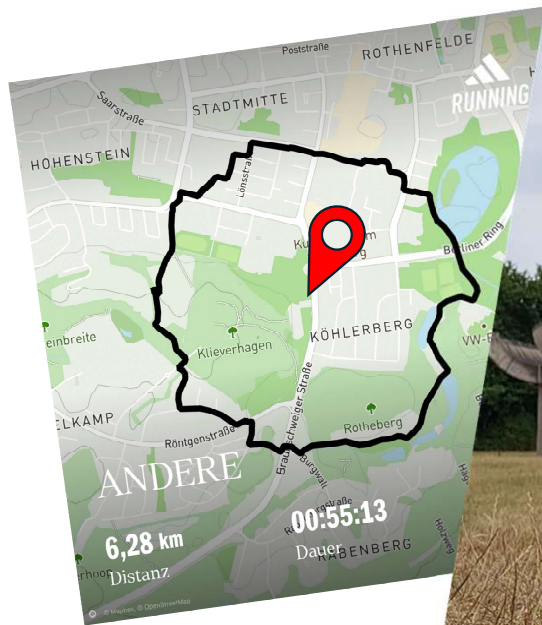
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