

Double Buckethandle continuum

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[> with(plots):
[> with(plottools):
[>
[> s1:=(x,n) -> 1/2-1/190:
[> r1:= (x,n) -> abs(x-s1(x,n)):
[>
[> X:= (a,b) -> (3*a+b)/95:
[> n:=1:
[>
[>
[>
[> s2:= (x,n) -> 46/190:
[> r2:= (x,n) -> abs(x-s2(x,n)):
[>
[>
[> s3:= (x,n) -> 1-48/190:
[> r3:= (x,n) -> abs(x-s3(x,n)):
[>
[> s4:= (x,n) -> (3*17 +2)/95:
[> r4:= (x,n) -> abs(x-s4(x,n)):
[>
[> s5:= (x,n) -> (3*21 +2)/95:
[> r5:= (x,n) -> abs(x-s5(x,n)):
[>
[> s6:= (x,n) -> (3*11 +2)/95:
[> r6:= (x,n) -> abs(x-s6(x,n)):
[>
[> s7:= (x,n) -> (3*10 +2)/95:
[> r7:= (x,n) -> abs(x-s7(x,n)):
[>
[> p:=seq(seq(plot(
[s1(X(a,b),n)+ r1(X(a,b),n)*cos(t),
r1(X(a,b),n)*sin(t),
t=0..Pi],color=red),
a=0..7),b=0..1):
[> p2:=seq(seq(plot(
[s2(X(a,b),n)+ r2(X(a,b),n)*cos(t),
r2(X(a,b),n)*sin(t),
t=Pi..2*Pi],color=blue),
a=0..7),b=0..1):
[> p3:=seq(seq(plot(
[s3(X(a,b),n)+ r3(X(a,b),n)*cos(t),

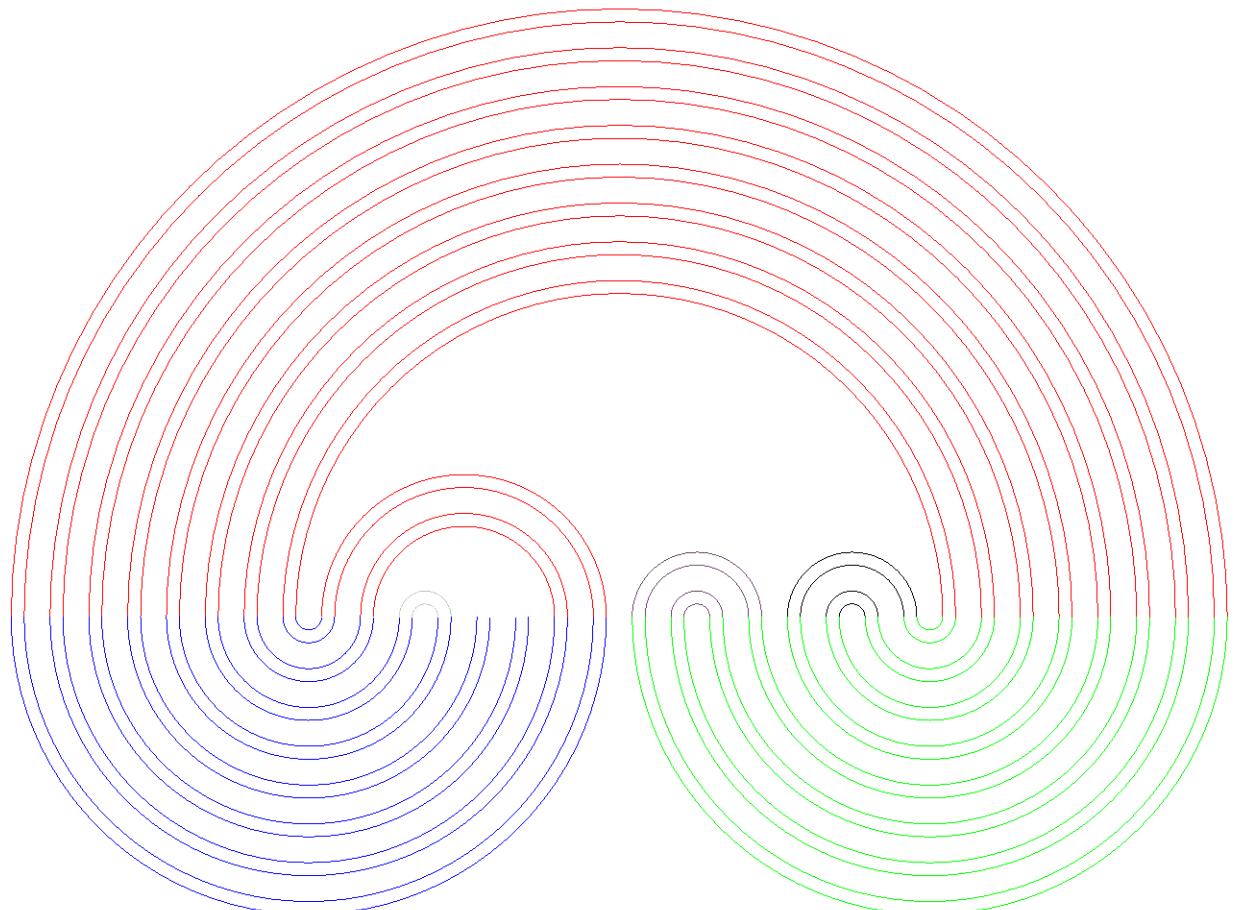
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1

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r3(X(a,b),n)*sin(t),
t=Pi..2*Pi],color=green),
a=24..31),b=0..1):
> p4:=seq(seq(plot(
[s4(X(a,b),n)+ r4(X(a,b),n)*cos(t),
r4(X(a,b),n)*sin(t),
t=0..Pi],color=violet),
a=16..17),b=0..1):
> p5:=seq(seq(plot(
[s5(X(a,b),n)+ r5(X(a,b),n)*cos(t),
r5(X(a,b),n)*sin(t),
t=0..Pi],color=black),
a=20..21),b=0..1):
> p6:=seq(seq(plot(
[s6(X(a,b),n)+ r6(X(a,b),n)*cos(t),
r6(X(a,b),n)*sin(t),
t=0..Pi],color=red),
a=8..9),b=0..1):
> p7:=seq(seq(plot(
[s7(X(a,b),n)+ r7(X(a,b),n)*cos(t),
r7(X(a,b),n)*sin(t),
t=0..Pi],color=grey),
a=10..10),b=0..1):
>
> plots[display]([p,p2,p3,p4,p5,p6,p7],scaling=constrained,axes=n
ne);

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