

Theory and code for geometrical phyllotaxis

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```
> if(FALSE) {  
+   install.packages("xtable")  
+   install.packages("showtext")  
+   install.packages("showtextdb")  
+ }  
> library(GeometricalPhyllotaxis)  
> library(grid)  
> library(xtable)  
> library(showtext); showtext.auto() # for greek symbols in plots  
> library(Cairo)  
>
```

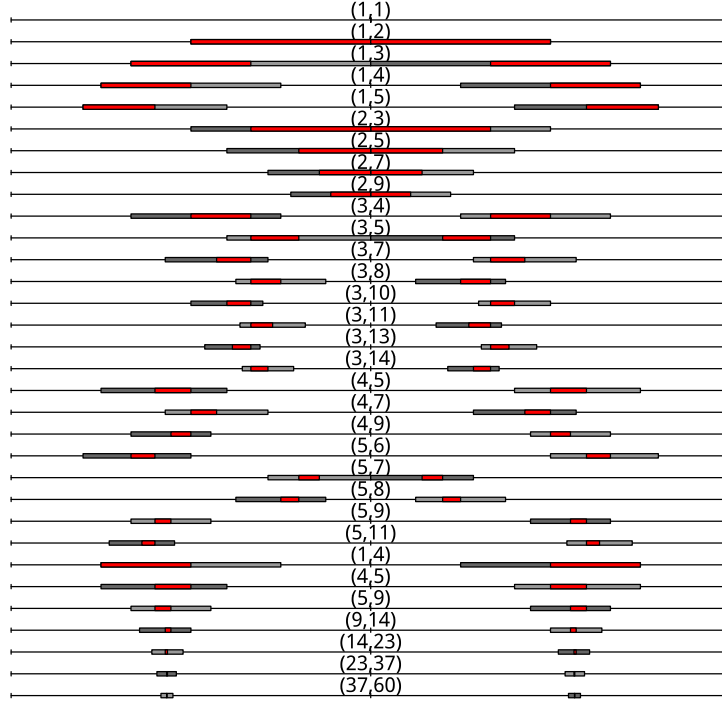


Figure 1: Generating intervals for a range of parastichy pairs. Pink: subinterval on which pair is opposed; Light grey: subinterval on which pair is unopposed and $\Delta = +1$; Dark grey: unopposed and $\Delta = -1$. $d = \frac{1}{2}$ is not in any generating interval except for $(m, n) = (1, 1)$; otherwise Δ in the opposed subinterval is the same as in the unopposed subintervals