

# Searching for transits with WTS: DSTL and habitability

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ROPACS Meeting

# Outline

DSTL - A short introduction

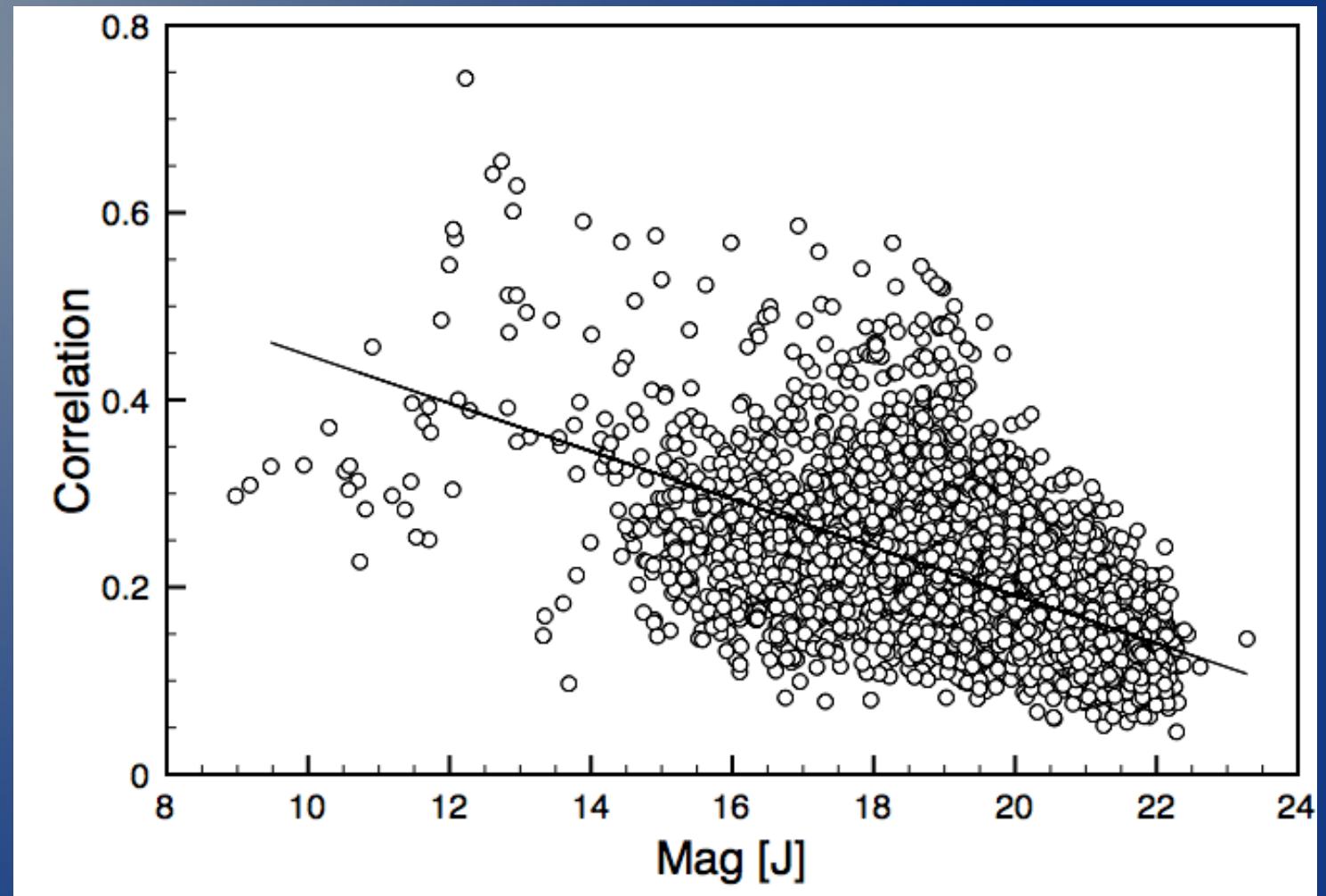
Some more tests & results

WTS : searching for habitable planets

Conclusions

# DSTL - Short introduction

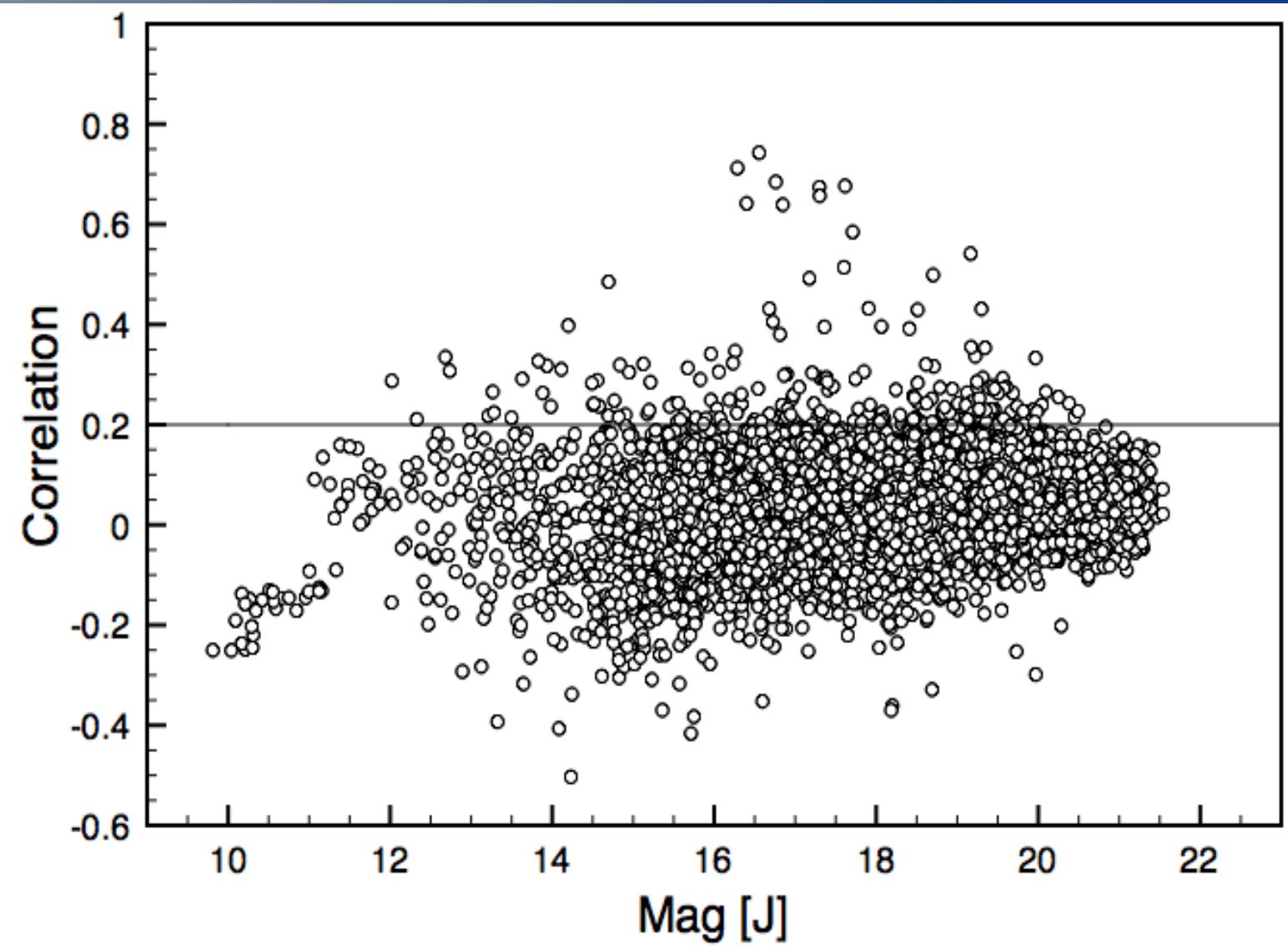
Correlation  
test



# DSTL - Short introduction

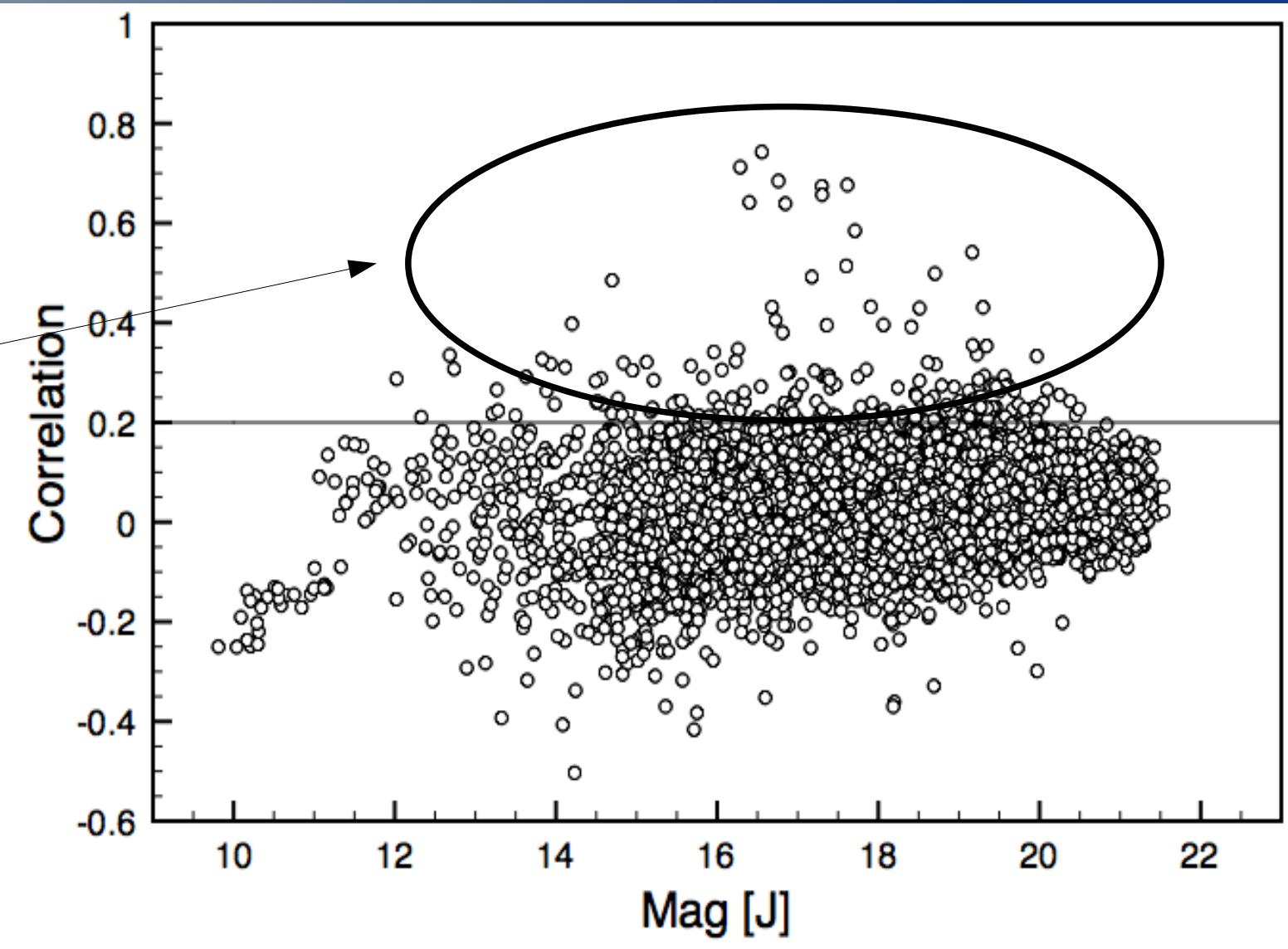
Correlation  
Plot

Cut :  $2\sigma$

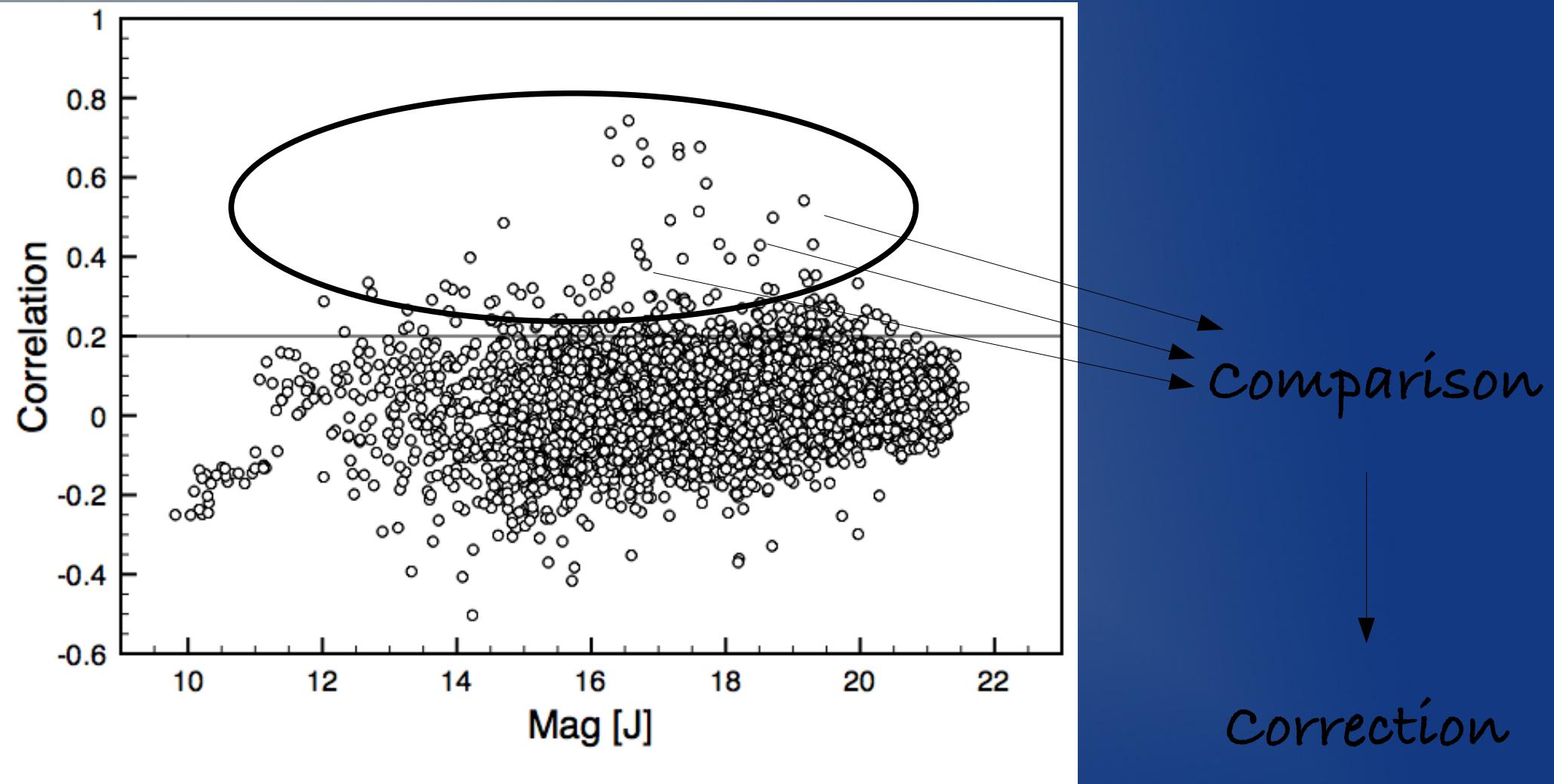


# DSTL - Short introduction

Family

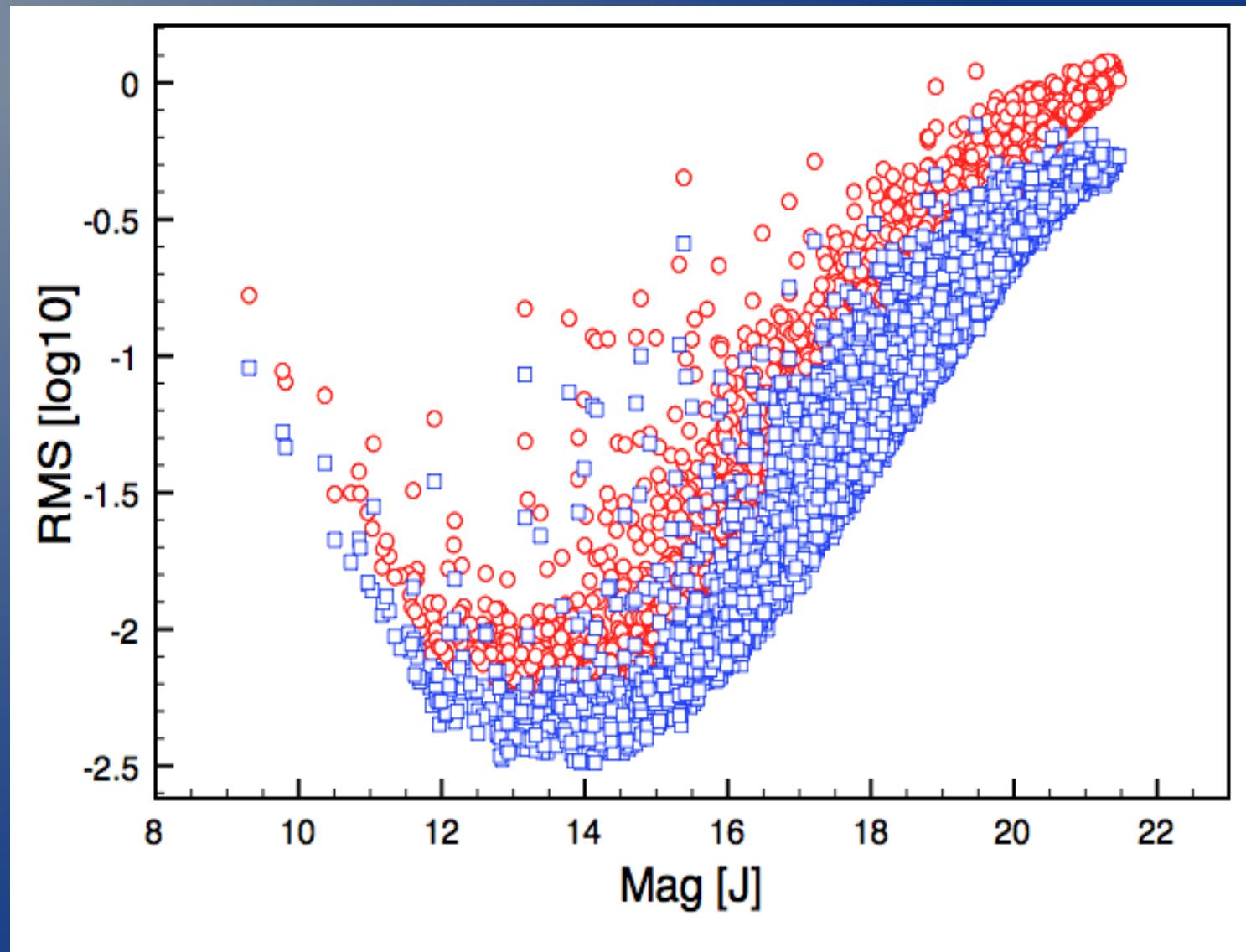


# DSTL - Short introduction

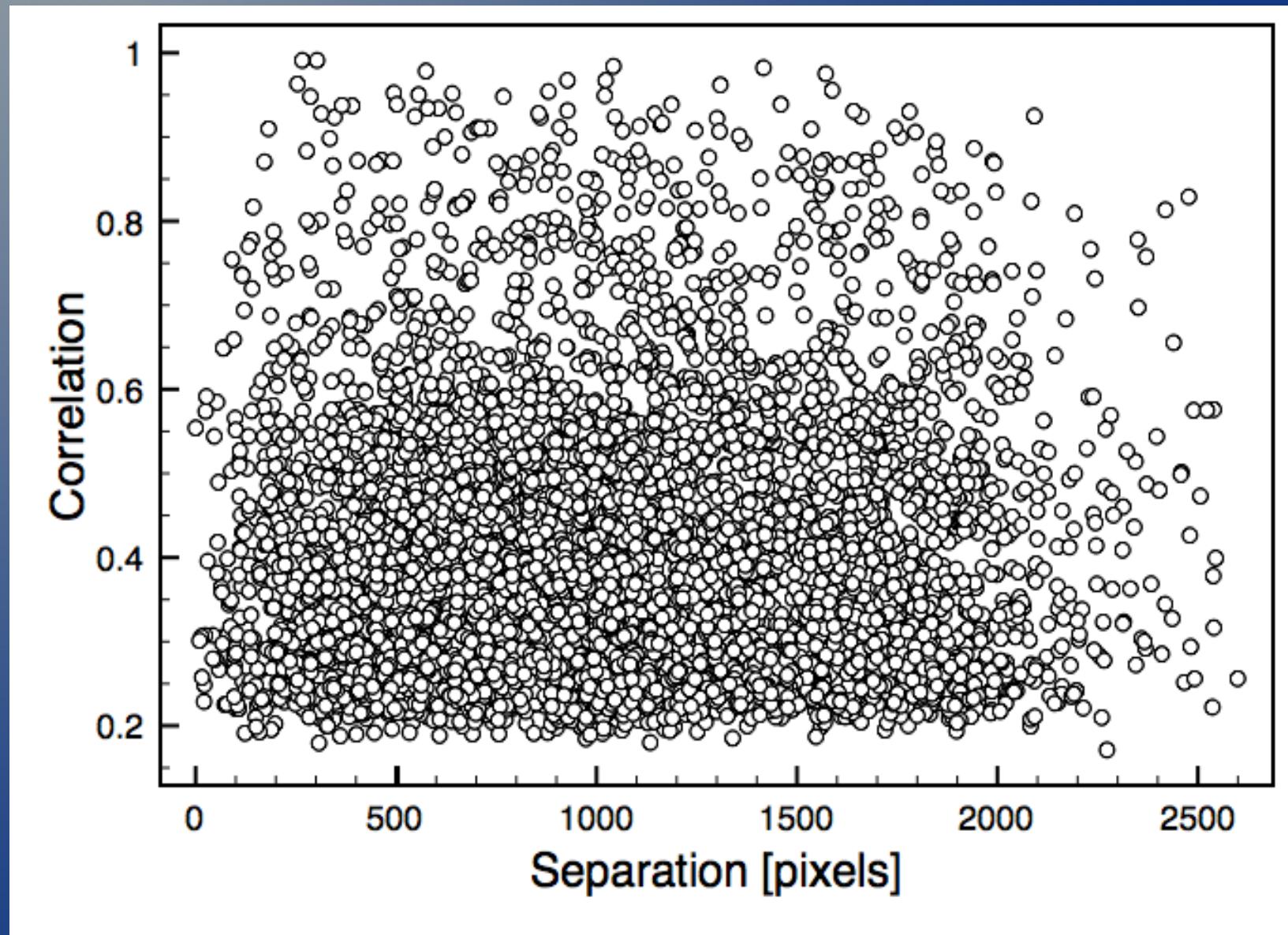


# Some more tests & results

RMS vs mag

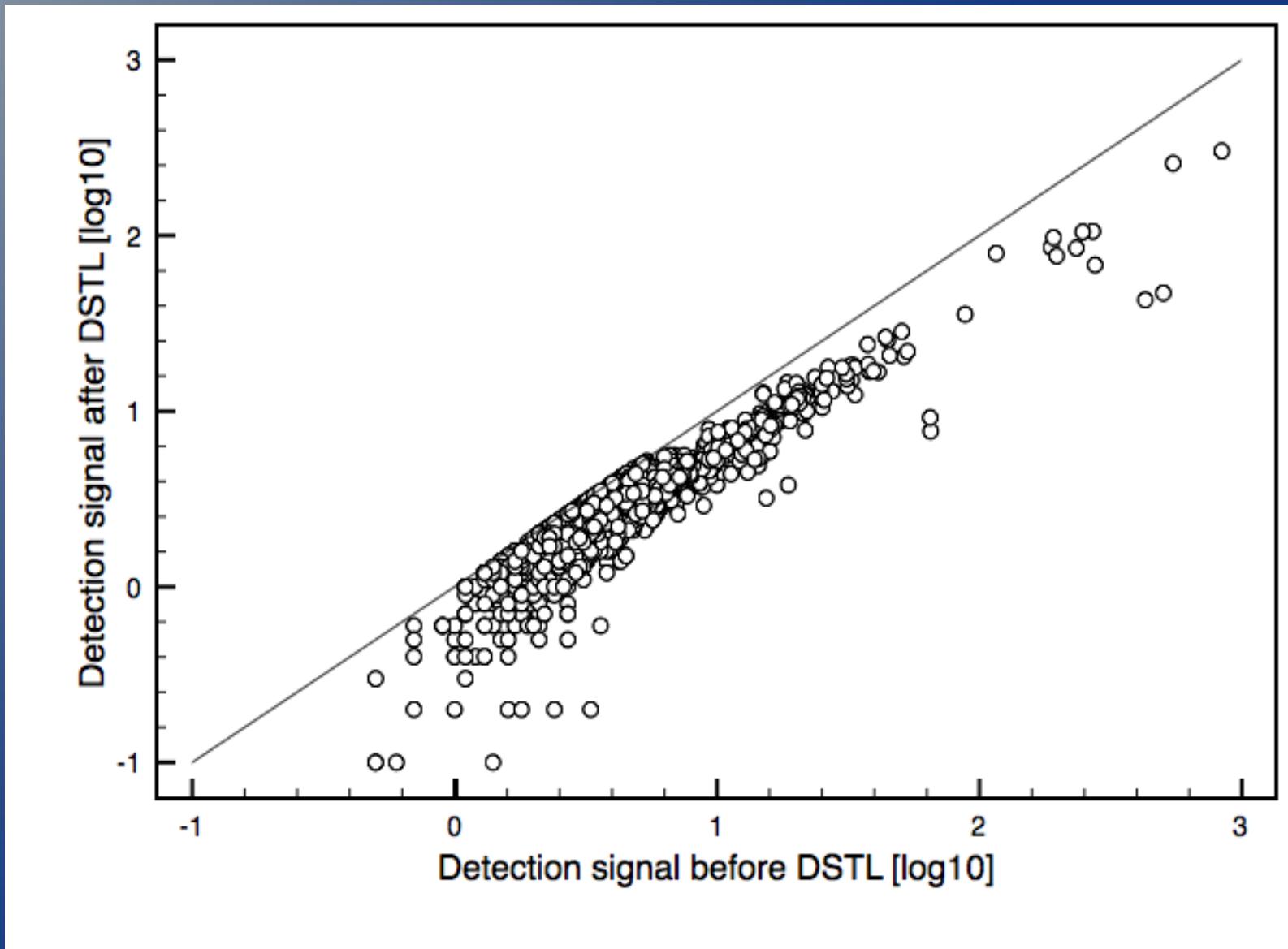


# Some more tests & results

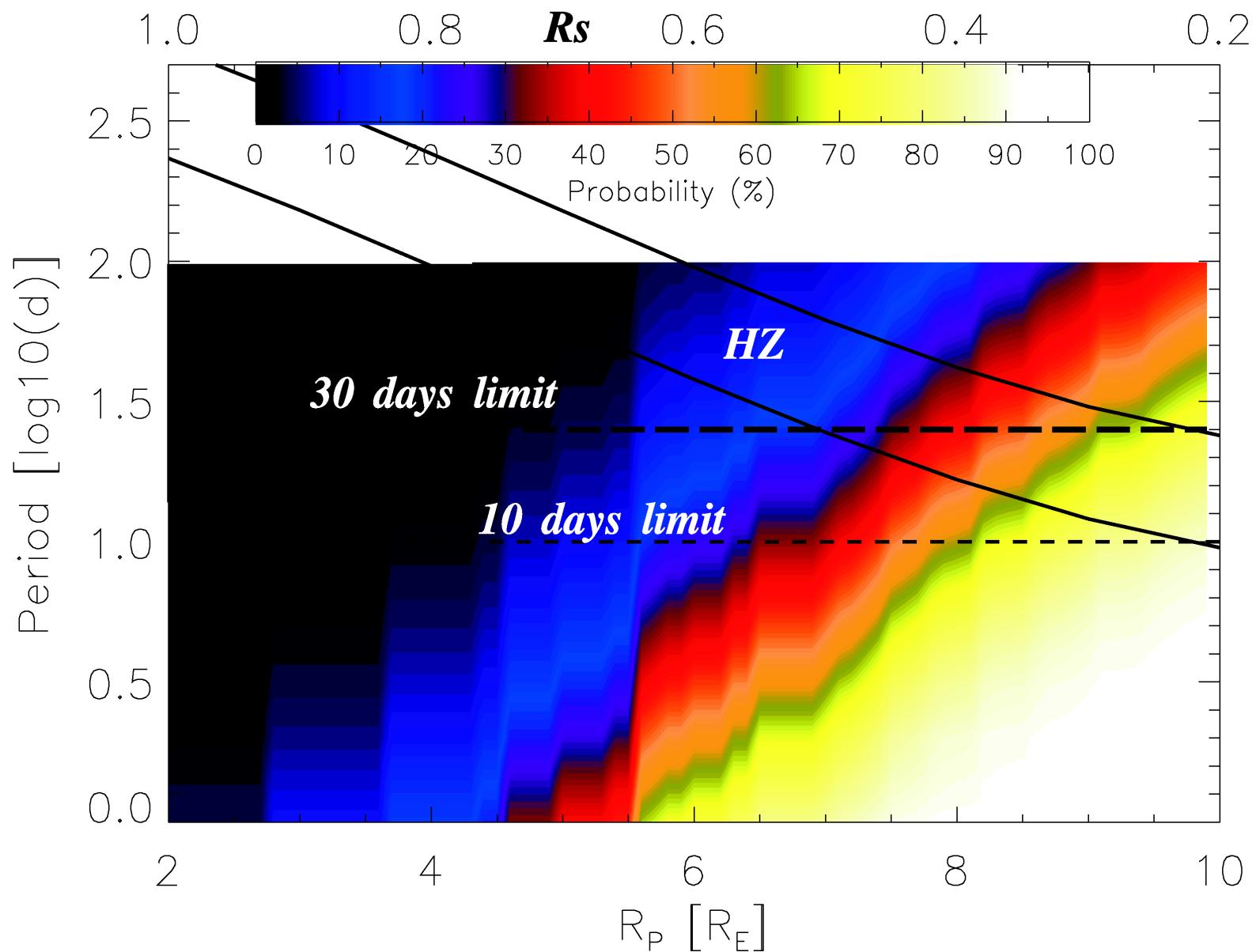


# Some more tests & results

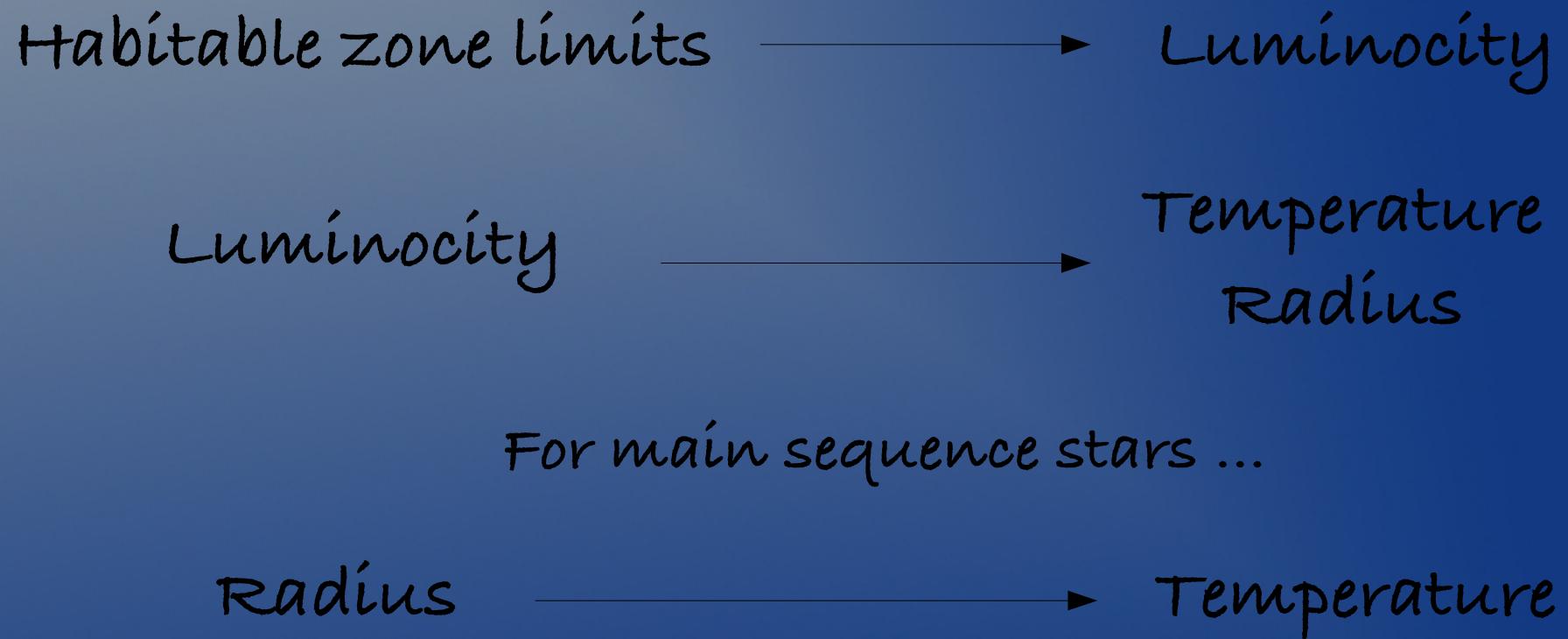
Detection  
test



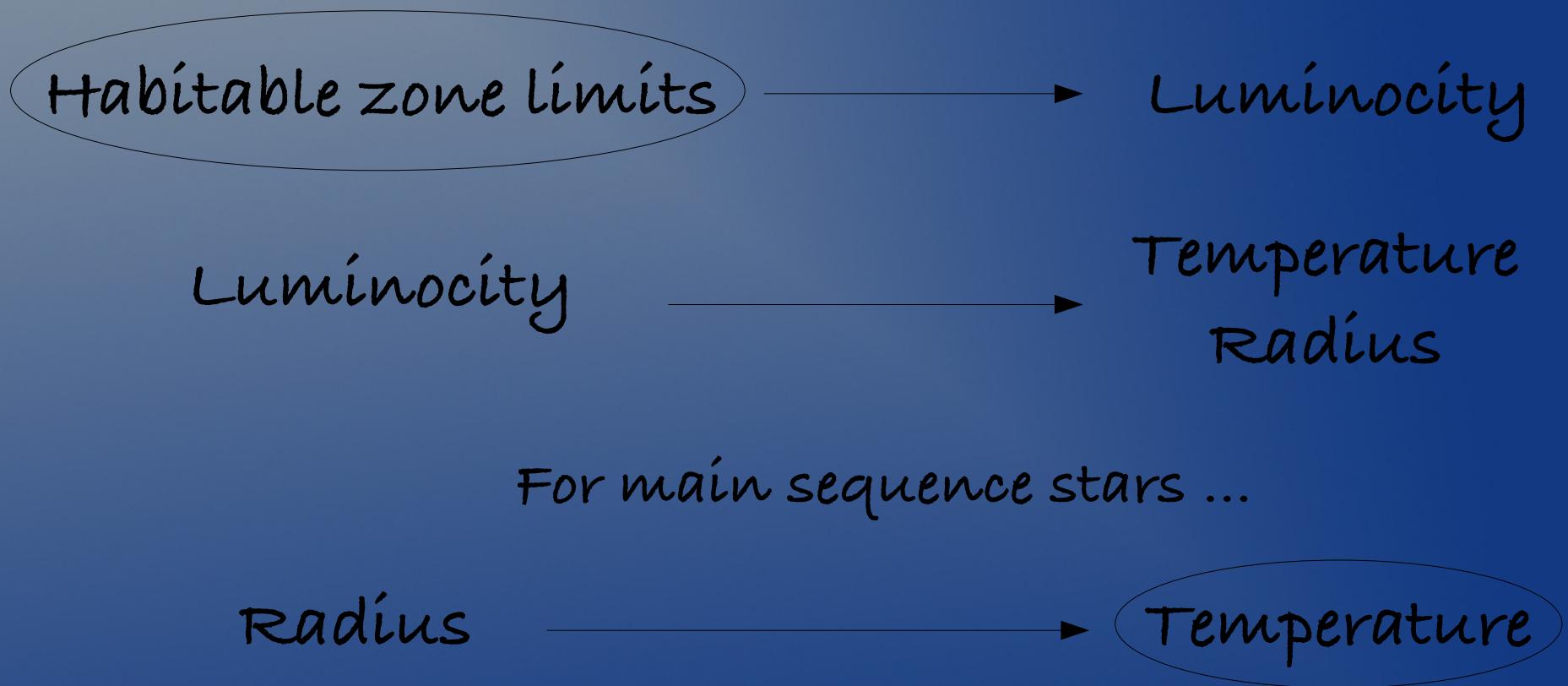
# WTS : searching for habitable planets



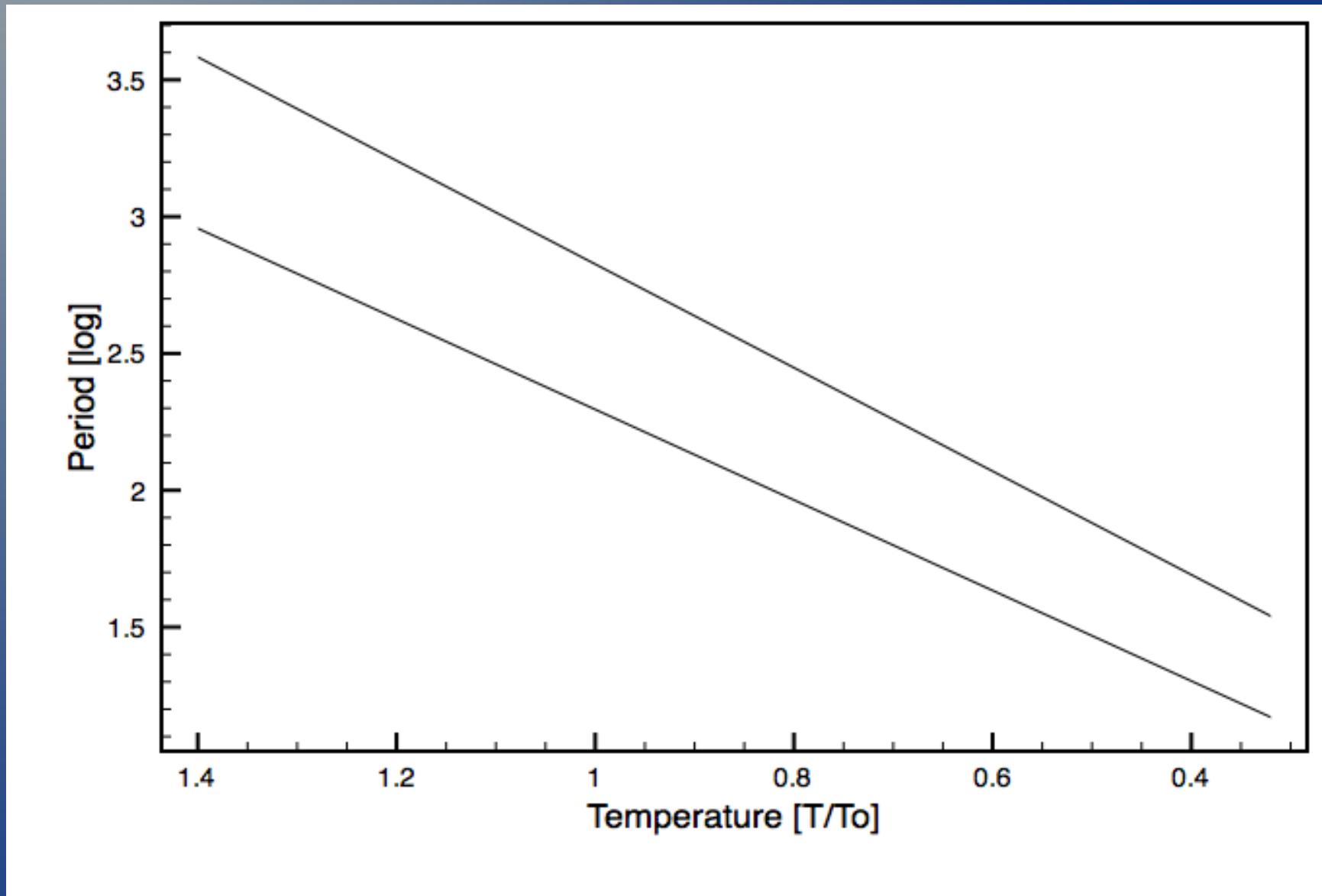
# WTS : searching for habitable planets



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# WTS : searching for habitable planets



WTS : searching for habitable planets

Temperature (SCD)



Fix the period window



Detection algorithms - period window

# Conclusions

DSTL is almost ready for publication ...

Co-authors ??

(Mislis, Hodgkin, Birkby, Pinfield)

...  $\mathcal{G}$  works better than other algorithms (TFA or SysRem)

We start to search for habitable planets ...

... no results yet

Thank you