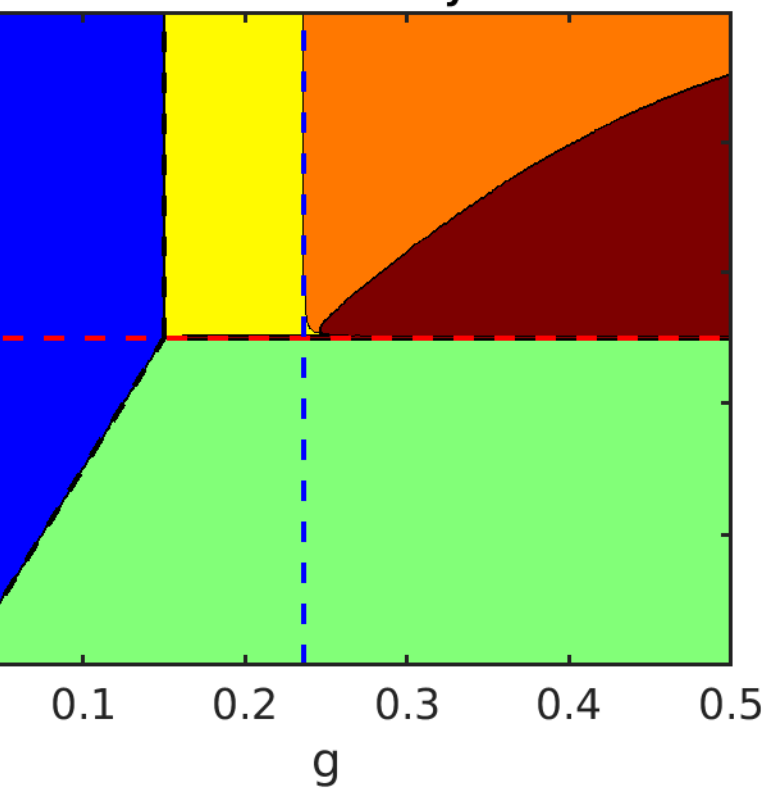


**(a)  $R_c < R_y$**



**(b) bifurcation map**

