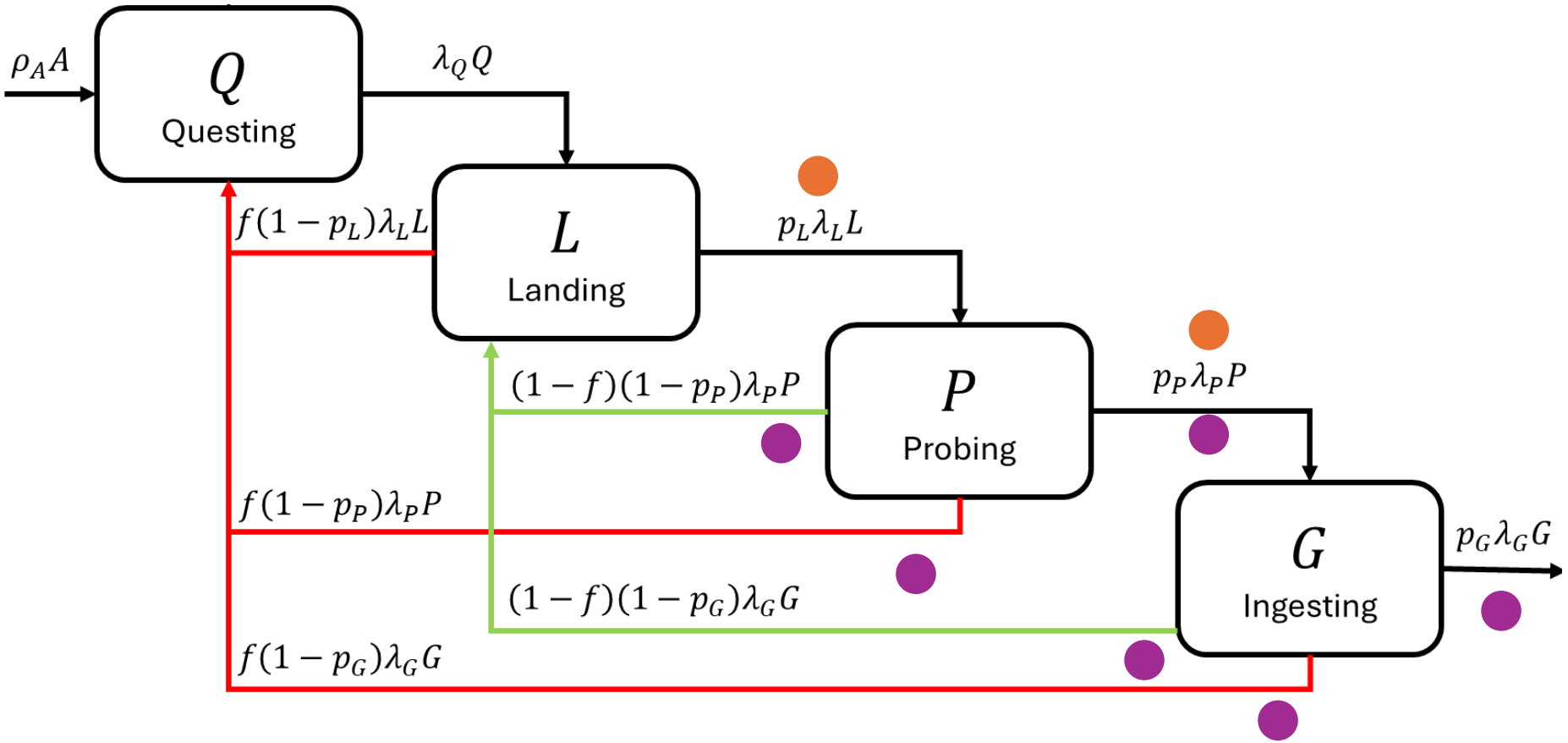
Parameter name	Value
Mosquito lifespan	20 days
Oviposition period	5 days
Resting period	2 days
Eggs per female per day	300 eggs per female per day
Larval development period	12 days
Larvae survival probability	62.5%
Larvae carrying capacity	**30 billion**
Extrinsic incubation period	6 days
Host-to-vector transmission probability	**1%**
Vector-to-host transmission probability	**1%**
Host infectious period	7 days
Host lifespan	65 years
Host carrying capacity	10 million

Parameter name	Value
Average host-seeking duration	8 hours
Seek-new-host probability	**50%**
Landing success probability	**50%**
Exit rate from landing stage	1/(10 minutes)
Probing success probability	**50%**
Exit rate from probing stage	1/(5 minutes)
Ingestion success probability	**50%**
Exit rate from ingestion stage	1/(1 minutes)

Are contacts counted by entrance or exit?

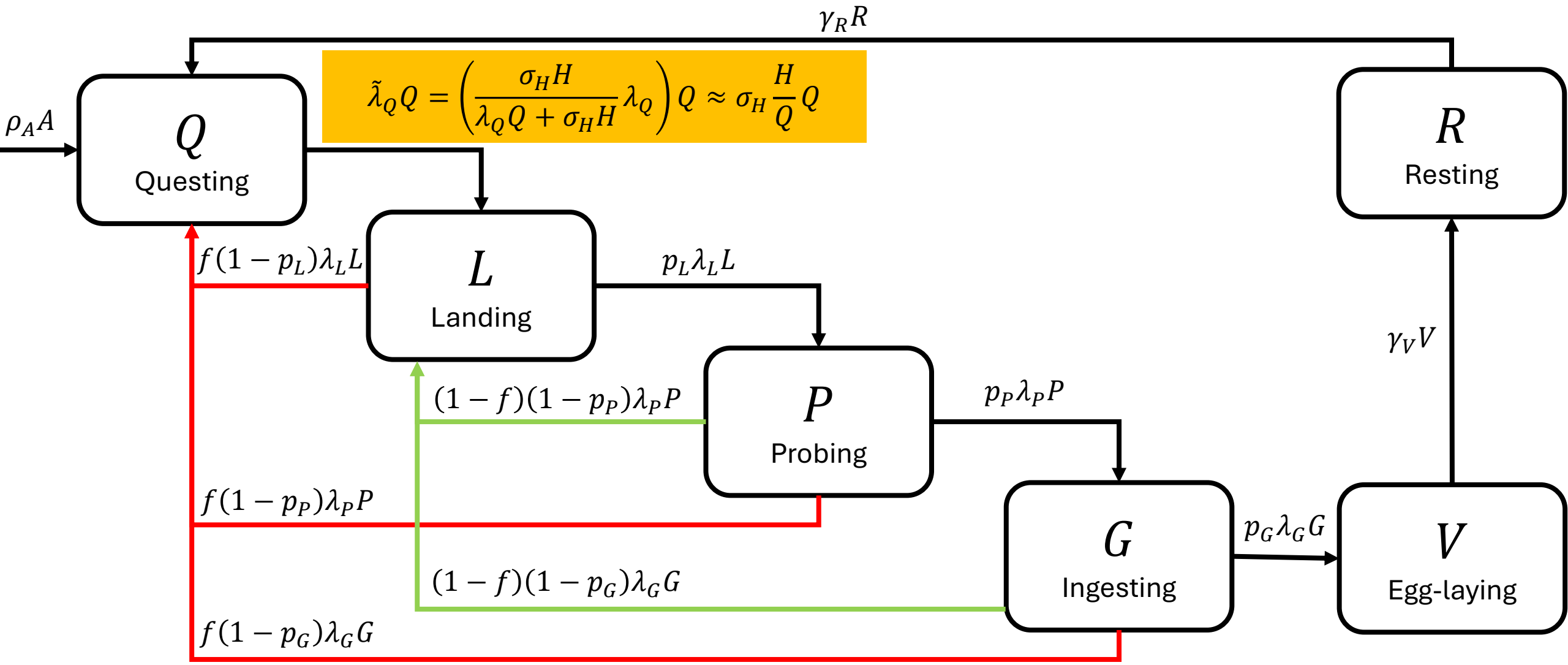
Do transmissive contacts occur upon **entering** a state or **exiting** it ?



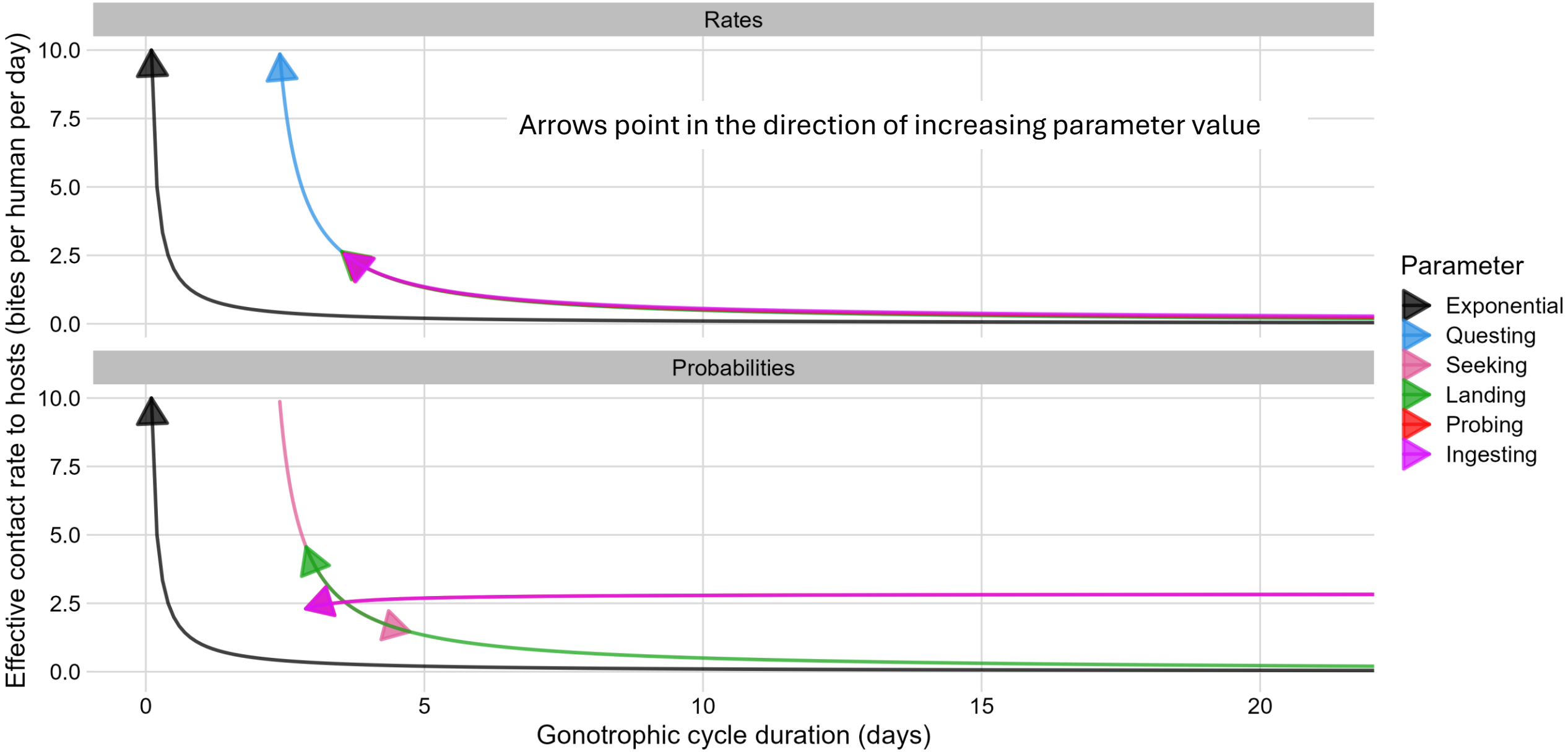
When does density-dependence matter?

Not at the point of transmission, but during *host-seeking*.

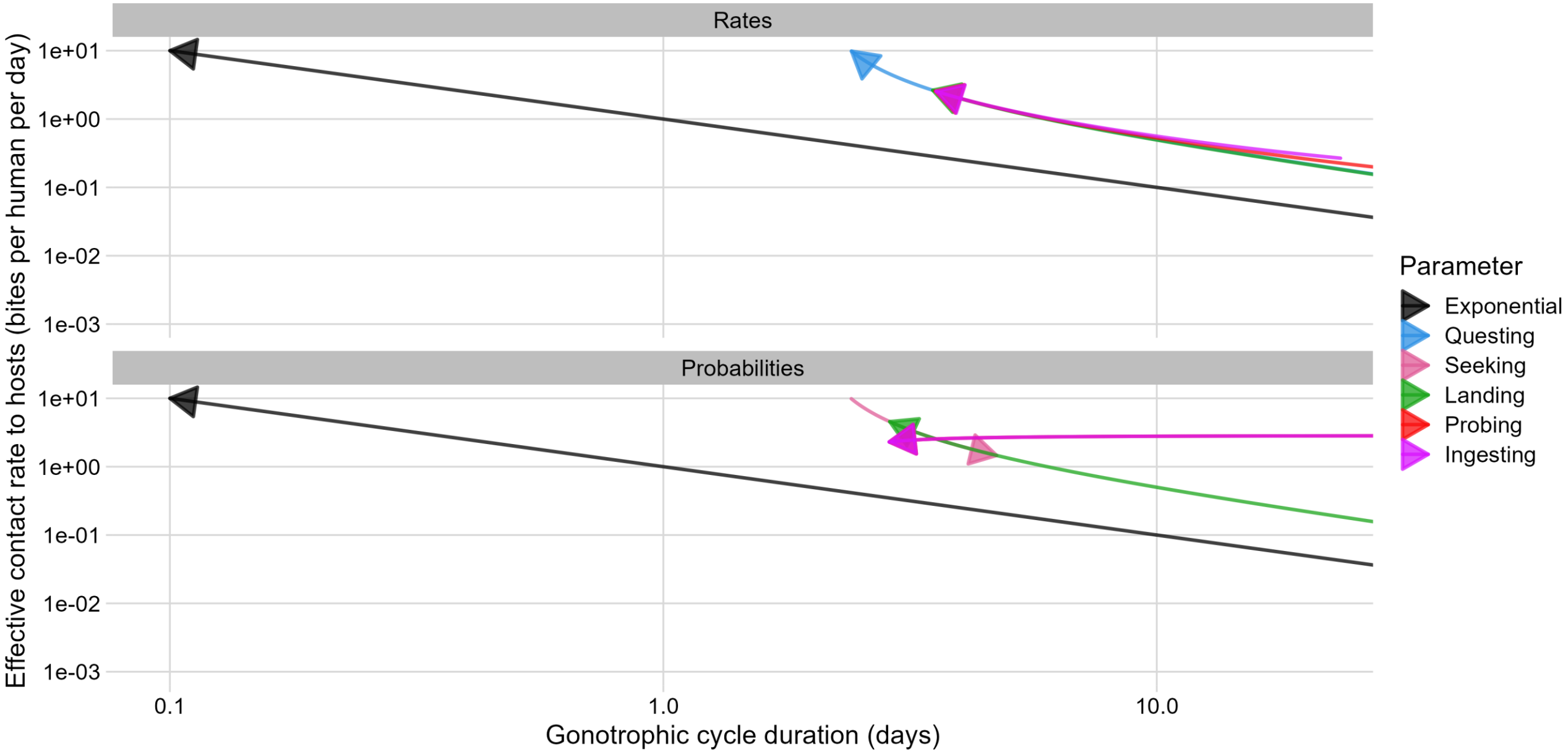
Not yet implemented!



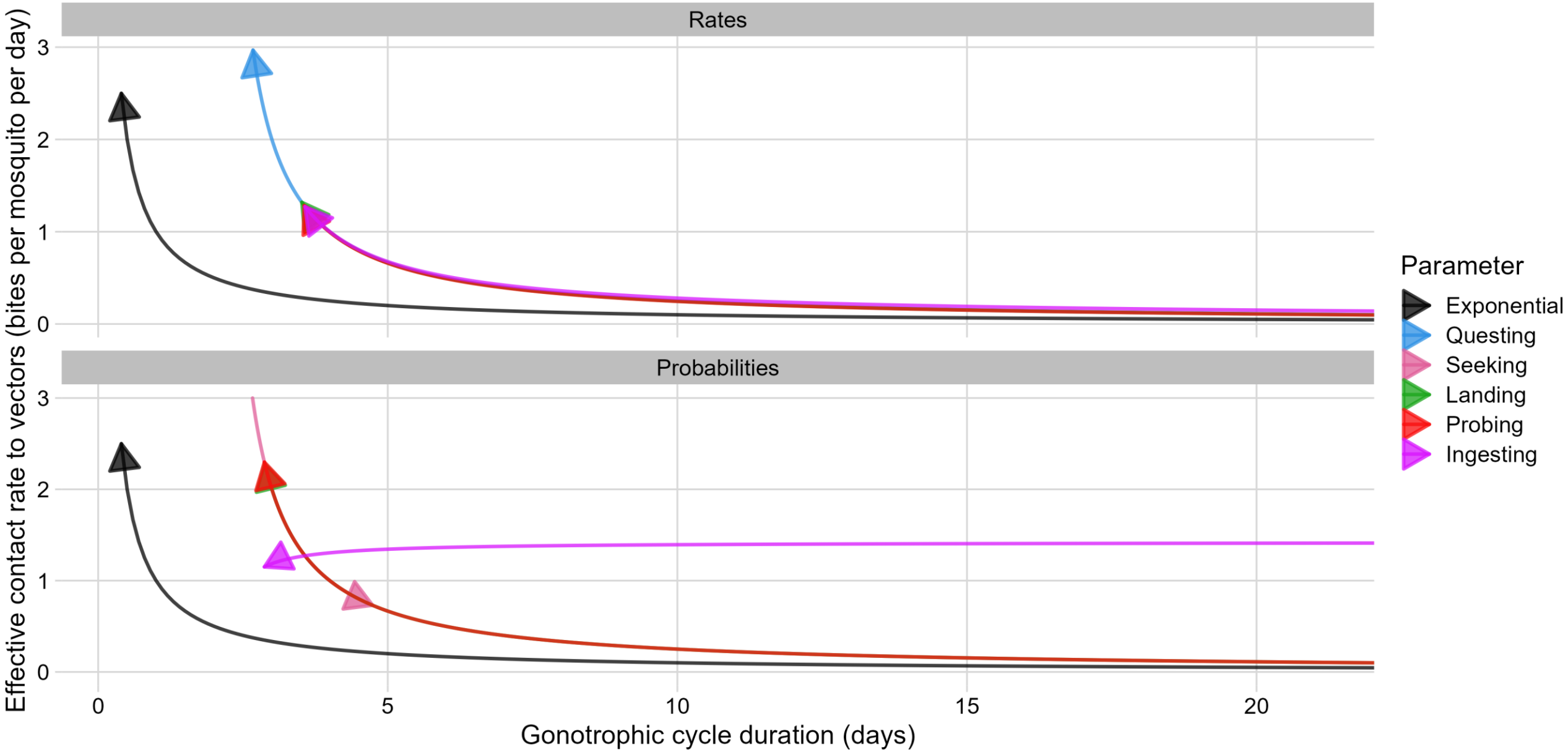
Host contact rate as a function of **Gonotrophic cycle duration**



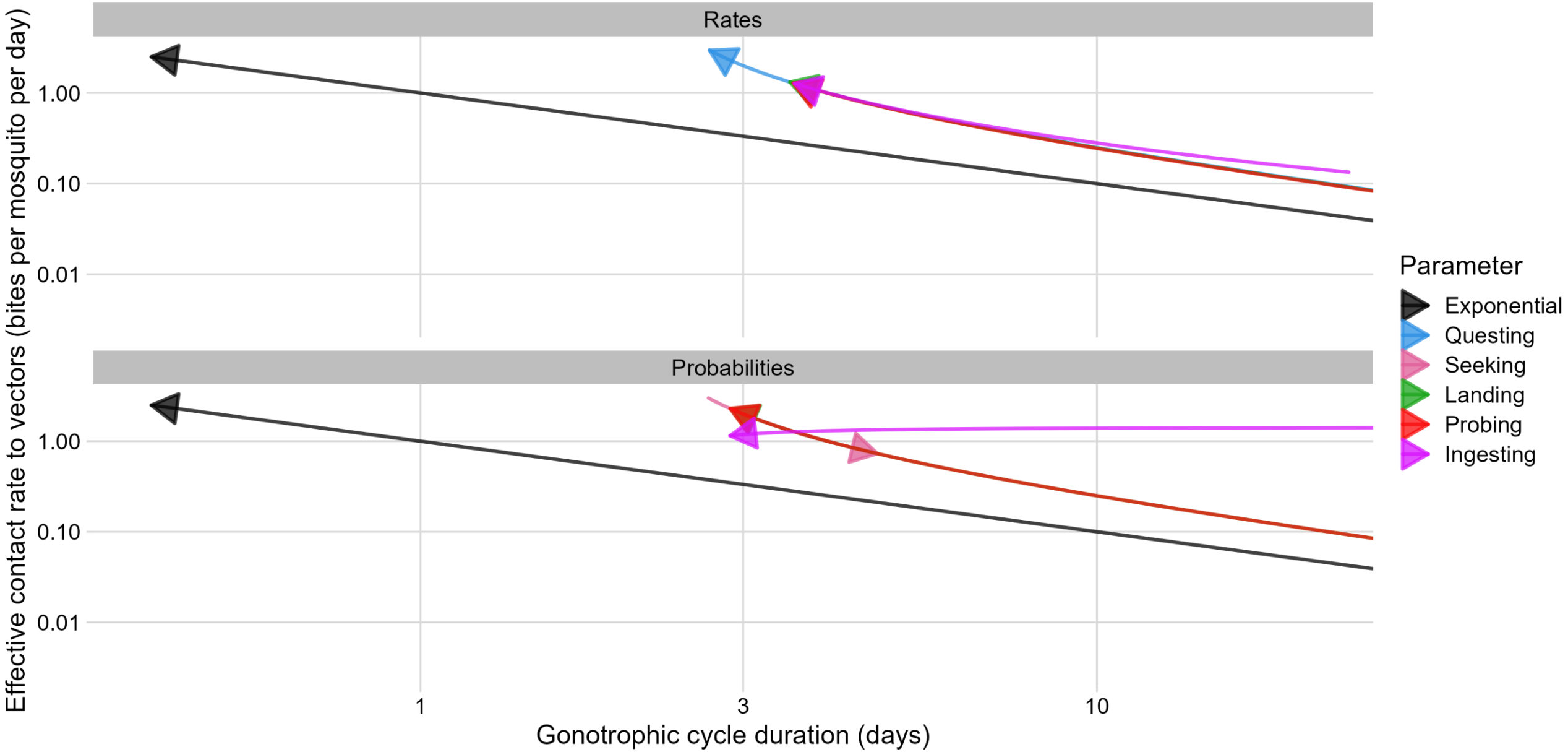
<u>Host</u> contact rate as a function of **Gonotrophic cycle duration** (*on a log-log scale*)



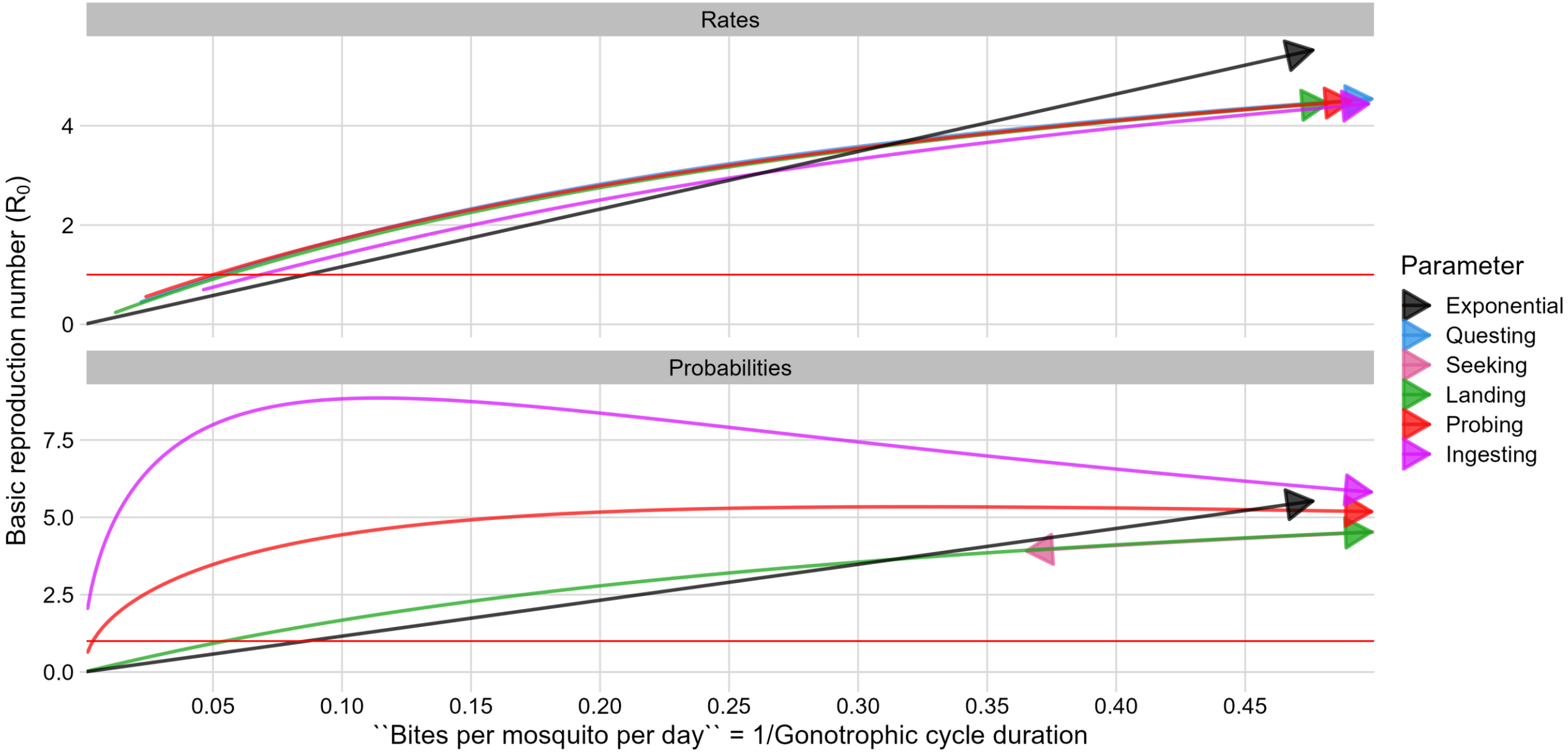
Vector contact rate as a function of **Gonotrophic cycle duration**



<u>Vector</u> contact rate as a function of **Gonotrophic cycle duration** (*on a log-log scale*)



R_0 as a function of **biting rate = 1/ GCD**



R_0 as a function of **biting rate = 1/ GCD** (*on a log-log scale*)