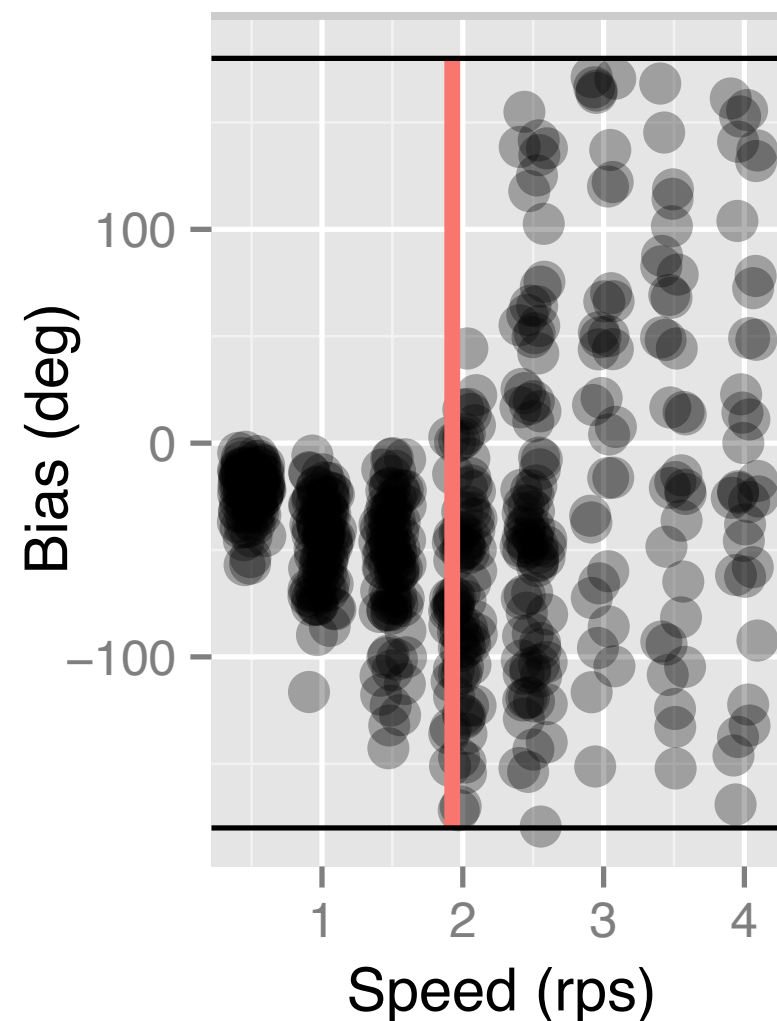


Observers are asked to press a button when one of the objects rotating about a fixation point is aligned with a stationary reference placed near the orbit of the object.



The black dots in the graph show the biases of a typical observer for different speeds of rotation (positive values indicate that when the observer pressed the button the object was ahead of the stationary reference). The red vertical line indicates the maximum speed at which the observer could attentively track the moving objects.

The graph shows that when the speed reaches the tracking limit, the biases manifest an abrupt large increase in size.

This result indicates that attention is necessary to synchronise a sensorimotor action.

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