Motion Parallax mediated Depth Perception in Grasshopper

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Grasshopper

- Agile
- Accurate jumps
- Stable flight
- Phototaxis
- Peering
Peering Behavior
Experimental Setup
1. Do grasshoppers possess peering based monocular depth perception?

2. How do they integrate the monocular cues to obtain binocular depth perception?
Proposal B

Do grasshoppers perceive depth of moving objects?
Work done so far

1. Flight Experiments on Conehead grasshoppers
Visual Stimuli - MATLAB
2. Acoustics Experiment on Coneheads

Mating Call

~Audacity
2. Acoustics Experiment on Coneheads

Fighting Call
Thank You!