Shrimpoluminescence

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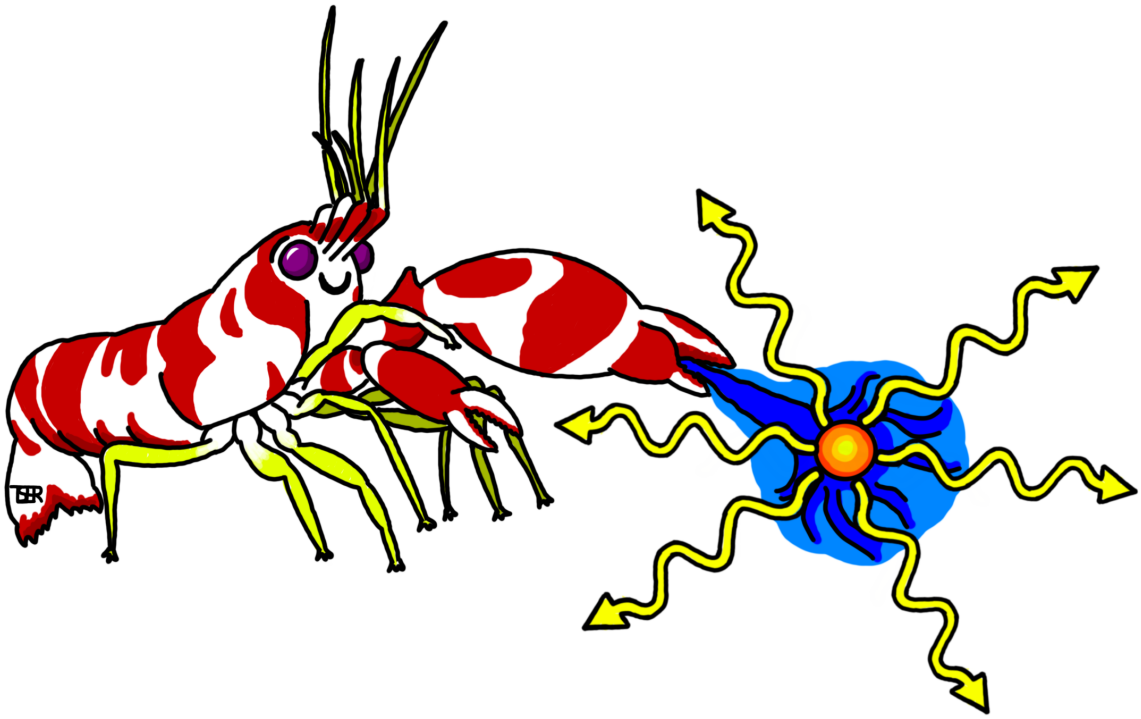

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I. A BRIEF "ABOUT-ME"

Hi!

II. DETAILS OF THE PROJECT

Pistol shrimp, like the red-banded pistol shrimp shown in Fig. , are capabale of generating a jet of water with high enough velocity that a *cavitation* bubble forms behind it. When the bubble collpases under the pressure of the sea, enough energy is released to produce a shock-wave that can kill the shrimp's prey []. If the shrimp's prey had very sensitive eyes (and also weren't dead) they might also see a flash of light produced through an effect referred to as "shrimpoluminescence" in the case of the pistol shrimp, but more generally know as *sonoluminescence* [].

III. PAPER TOPIC

Some items to consider in the introduction of the actual paper. Caviation bubbles capabale of sonoluminesce occur in numerous places in nature:

- the snapping and mantis shrimps us caviation bubbles to create shock waves that kill prey
- cavitation bubbles occur in pumps and after propellers and the shock damages the machinery
- ...