

Selective Pressures & Tropic Interactions Affecting Gall Size & Location on Goldenrod Stem

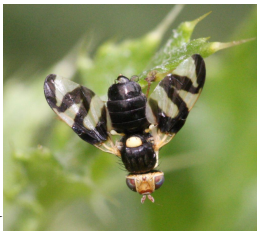
Luke Daniels

1/31/2018

Background

- Galls existing on goldenrod are a model for understanding selection facing flies and plants
- Gall making flies use an ovipositor to stimulate chemical reactions that form a gall
- Parasitic wasps are limited to attacking small galls due to the length of their ovipositor
- Abrahamson W.G 1989 found directional selection towards the larger gall due to parasitic interactions.

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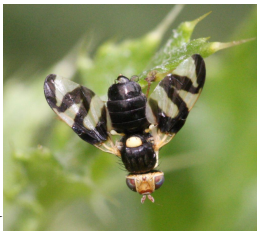


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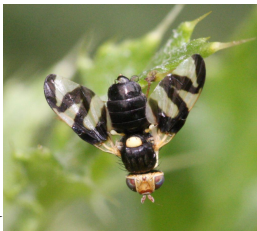


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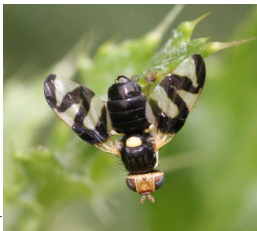


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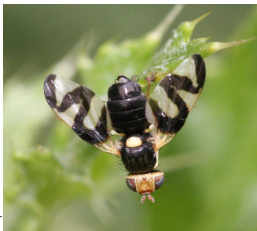


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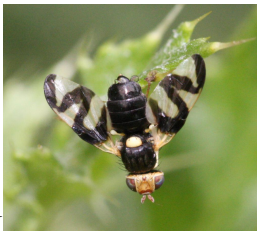


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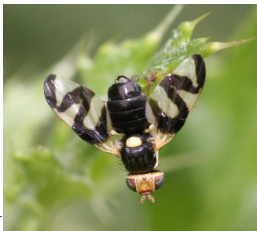


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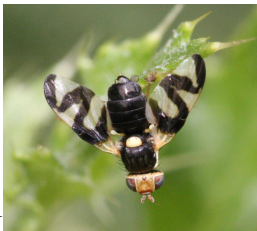


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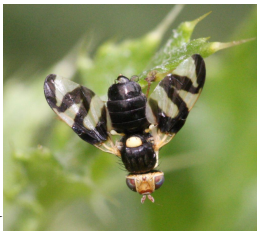


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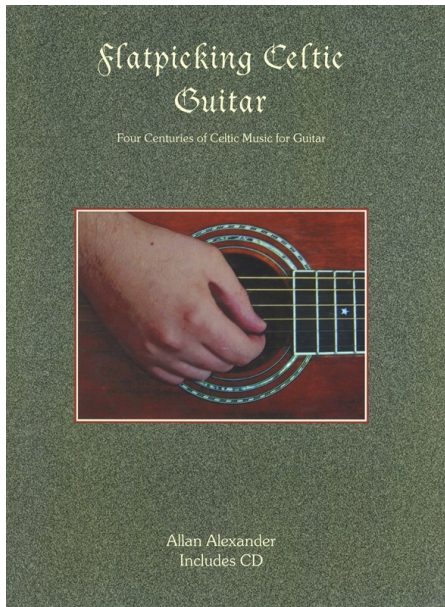


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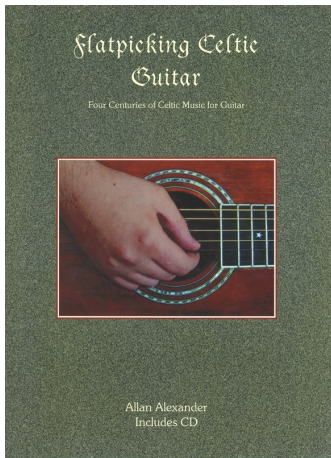
Trial Figure In L^AT_EX



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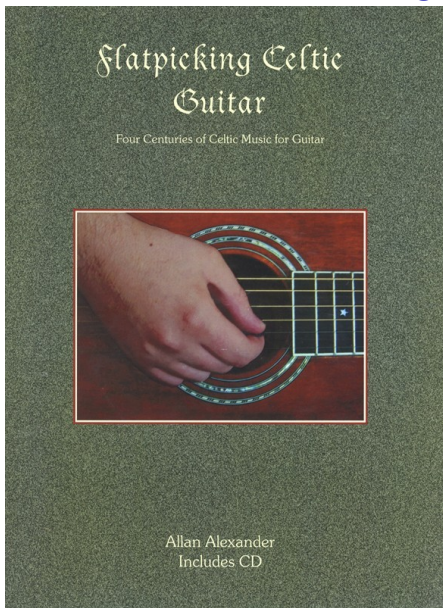
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Trial Figure In $\text{\LaTeX}(2)$



Choose a point on the unit circle. Connect it to the origin with a line of length one, and denote the angle between that line and the horizontal coordinate axis by θ .

Trial Figure In $\text{\LaTeX}(3)$



Choose a point on the unit circle. Connect it to the origin with a line of length one, and denote the angle between that line and the horizontal coordinate axis by θ .