

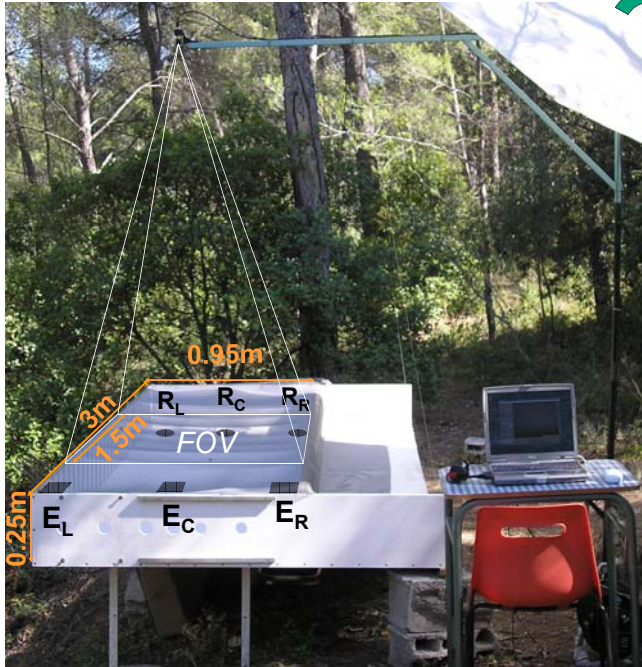
# A bee in a corridor: centring or wall-following ?

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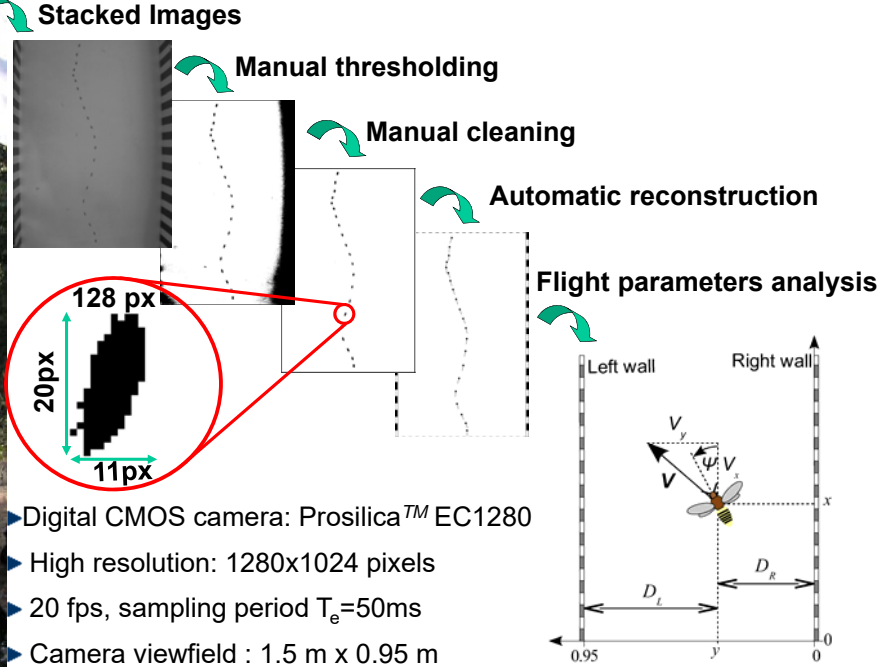
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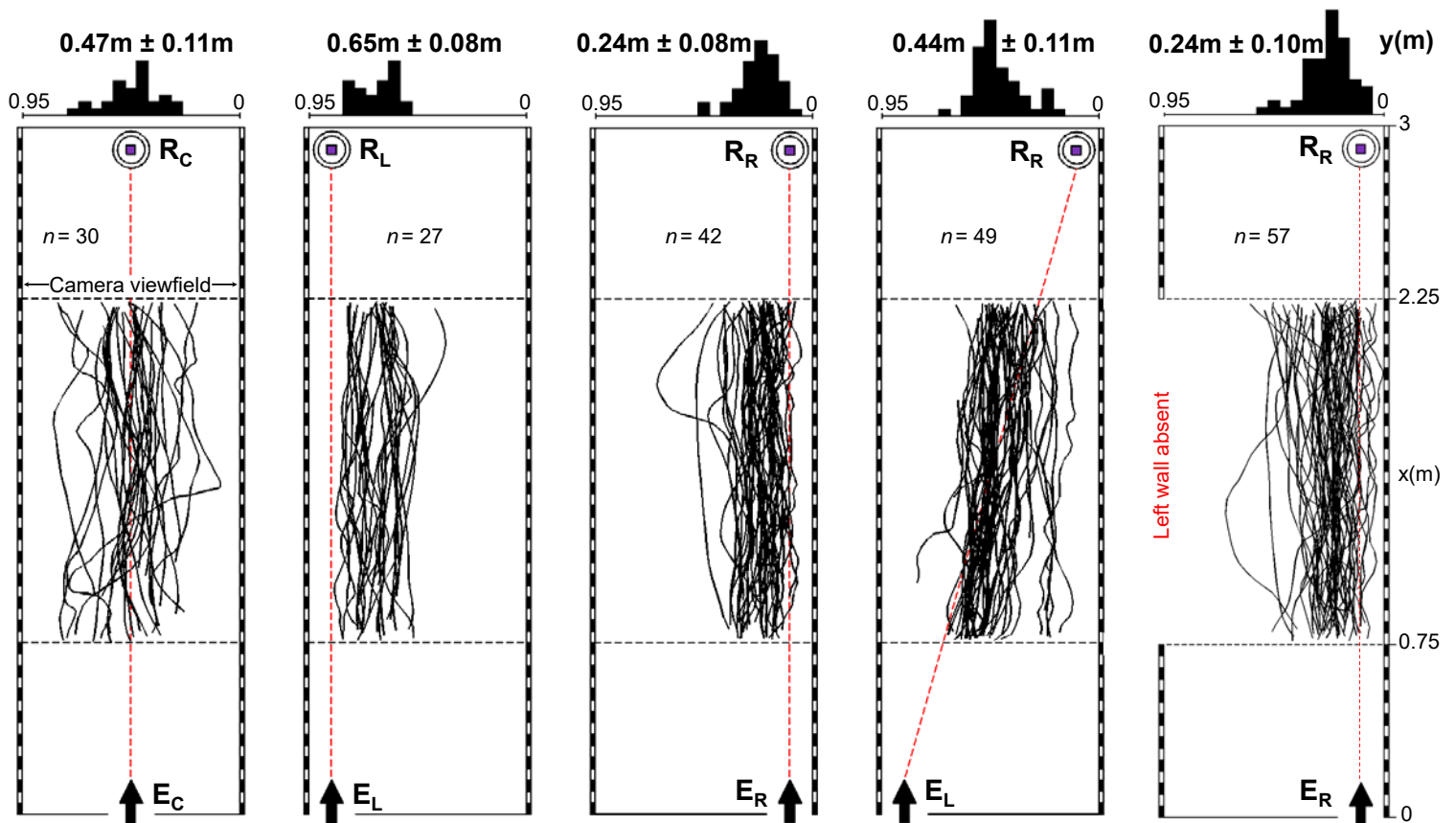
## • Experimental procedure



## • Image processing and time-lapse photography



## • Experimental results: to centre or not to centre ?



## • Conclusion

- ▶ Bees do not systematically adopt a **centring response** in contrast with previous observations (Kirchner and Srinivasan, 1989)
- ▶ The 'optic flow balance' hypothesis (Srinivasan et al., 1991) does not account for the **wall-following behaviour** observed here
- ▶ The bee's sideways motion is well accounted for by a **lateral optic flow regulator** (Serres et al., Proc. IEEE/RAS Biorob 2006) (Ruffier et al., Göttingen, T14-7B, 2007).