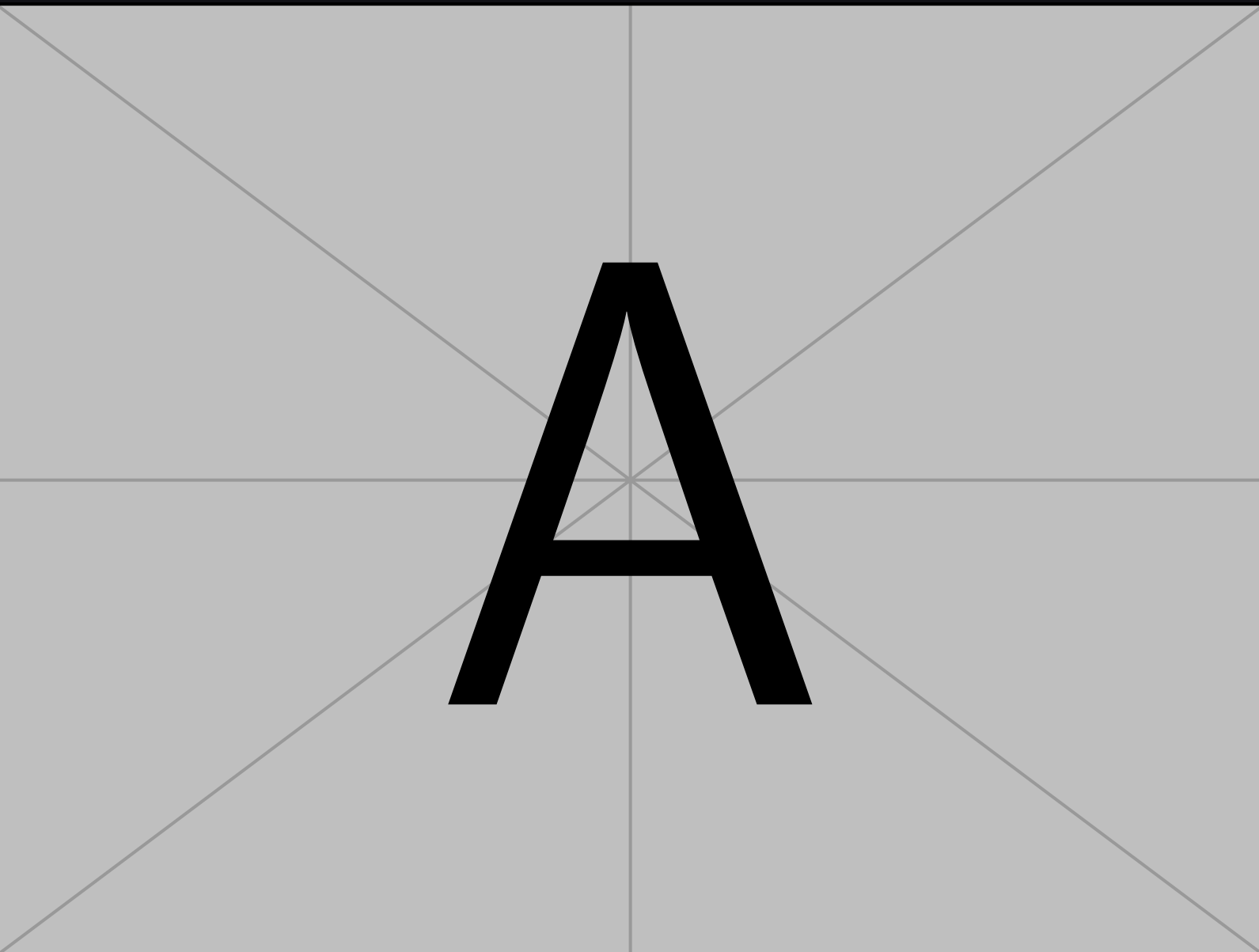
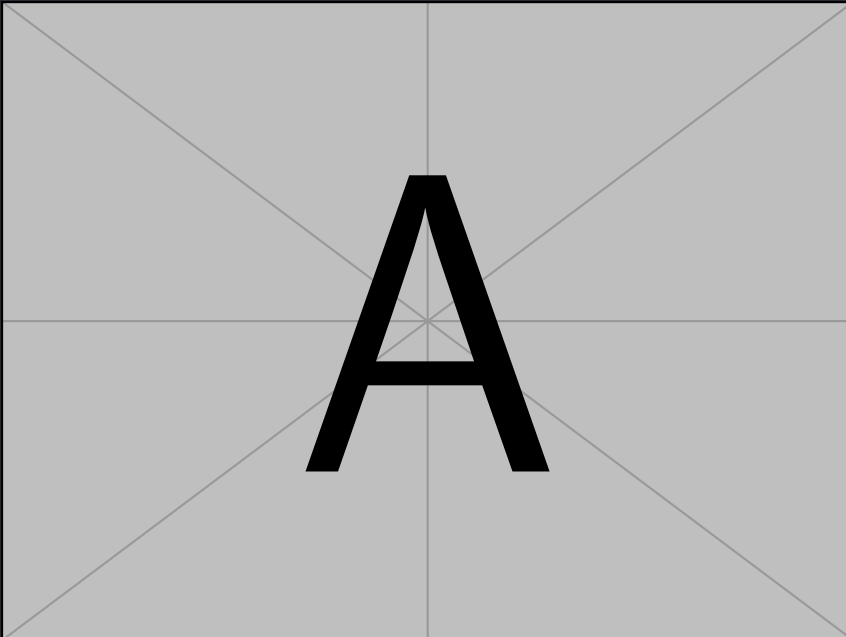
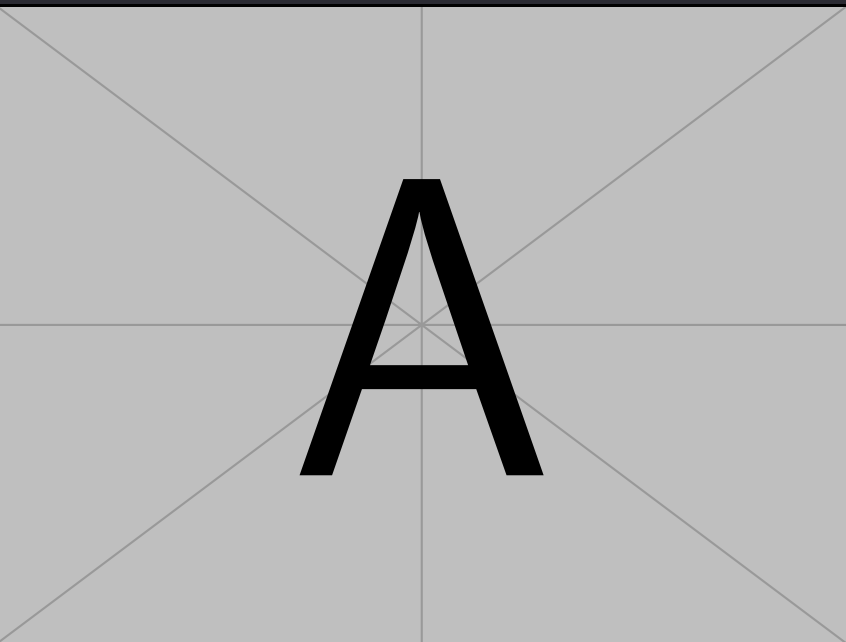


Pushing the limits of time-frequency uncertainty in the detection of transient communication signals in weakly electric fish

Sina Prause, Alexander Wendt, Patrick Weygoldt

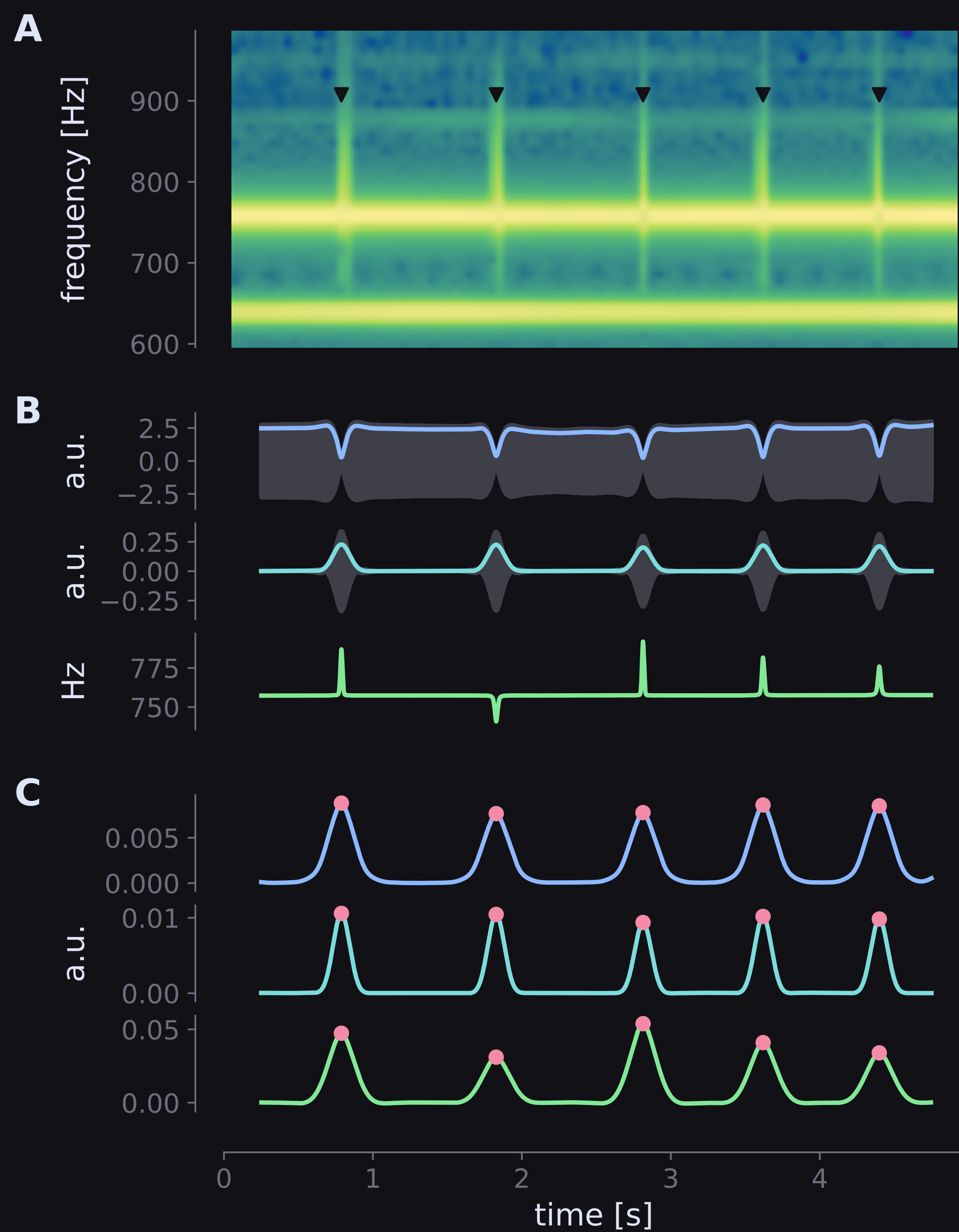
Supervised by Till Raab & Jan Benda, Neurothology Group, University of Tübingen



Introduction

The time-frequency tradeoff makes reliable signal detection and simultaneous sender identification of freely interacting individuals impossible. This profoundly limits our current understanding of chirps to experiments with single - or physically separated - individuals.

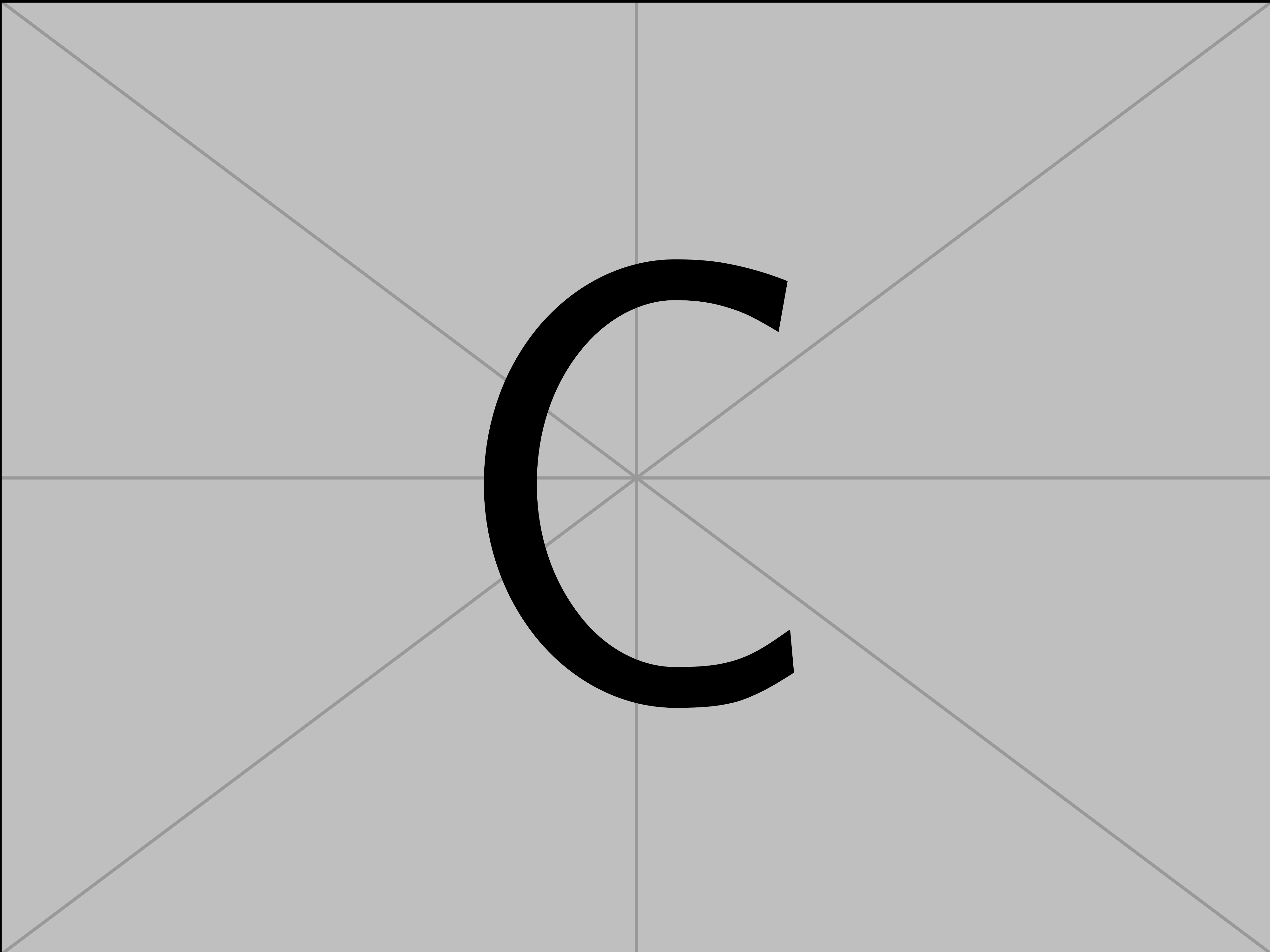
A chirp detection algorithm



Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit.

Results

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit.



More Stuff

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum.