

# SP project

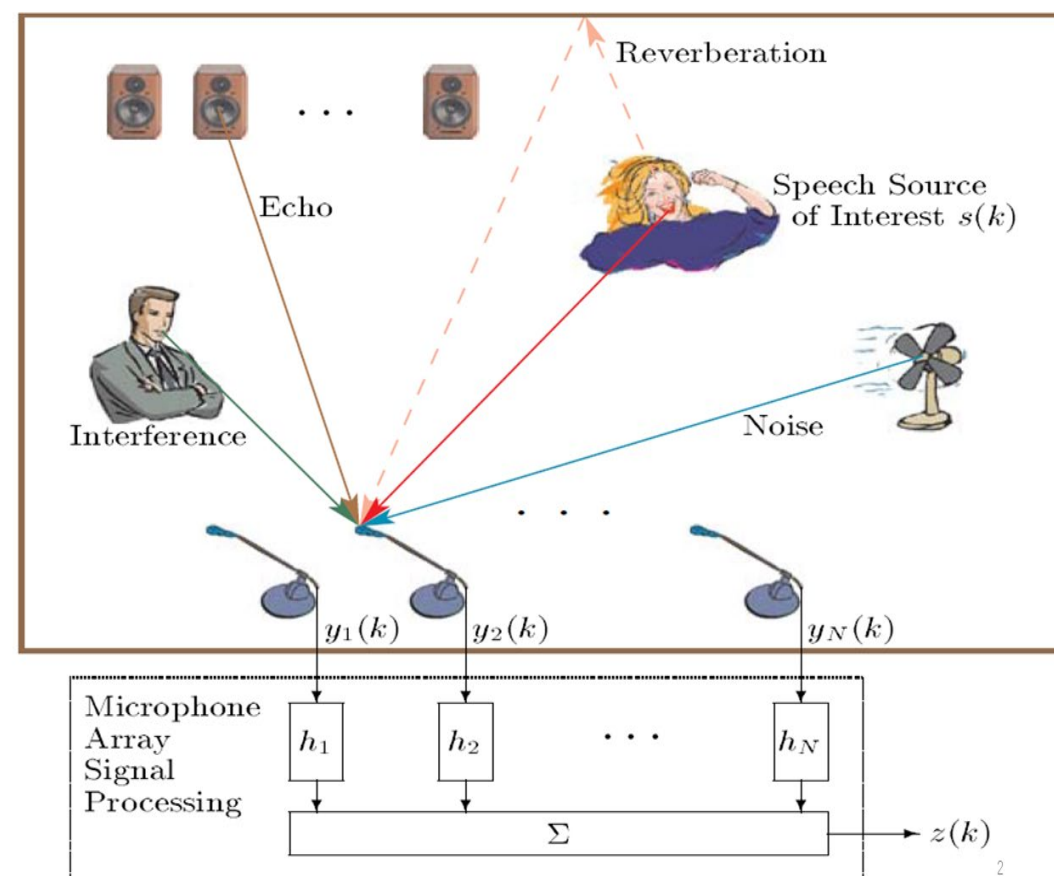
## Direction of Arrival Estimation Using Microphone Array



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# Task

**Module 1 : Narrowband DOA Estimation**

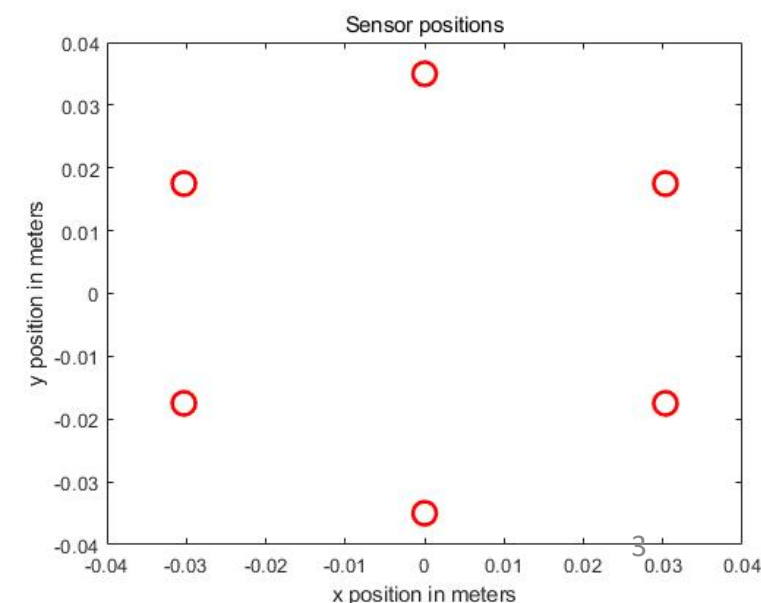
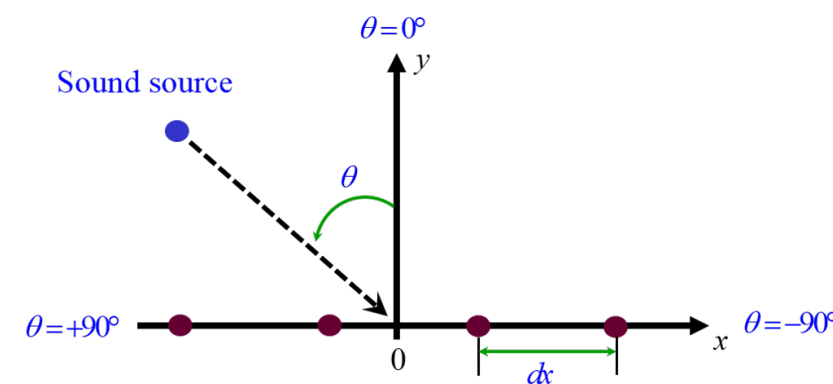
**Module 2 : Broadband DOA Estimation**

**Module 3 : Microphone Array Experiment**

**Module 4 : Bonus:**

I. Real-time GUI (linear array)

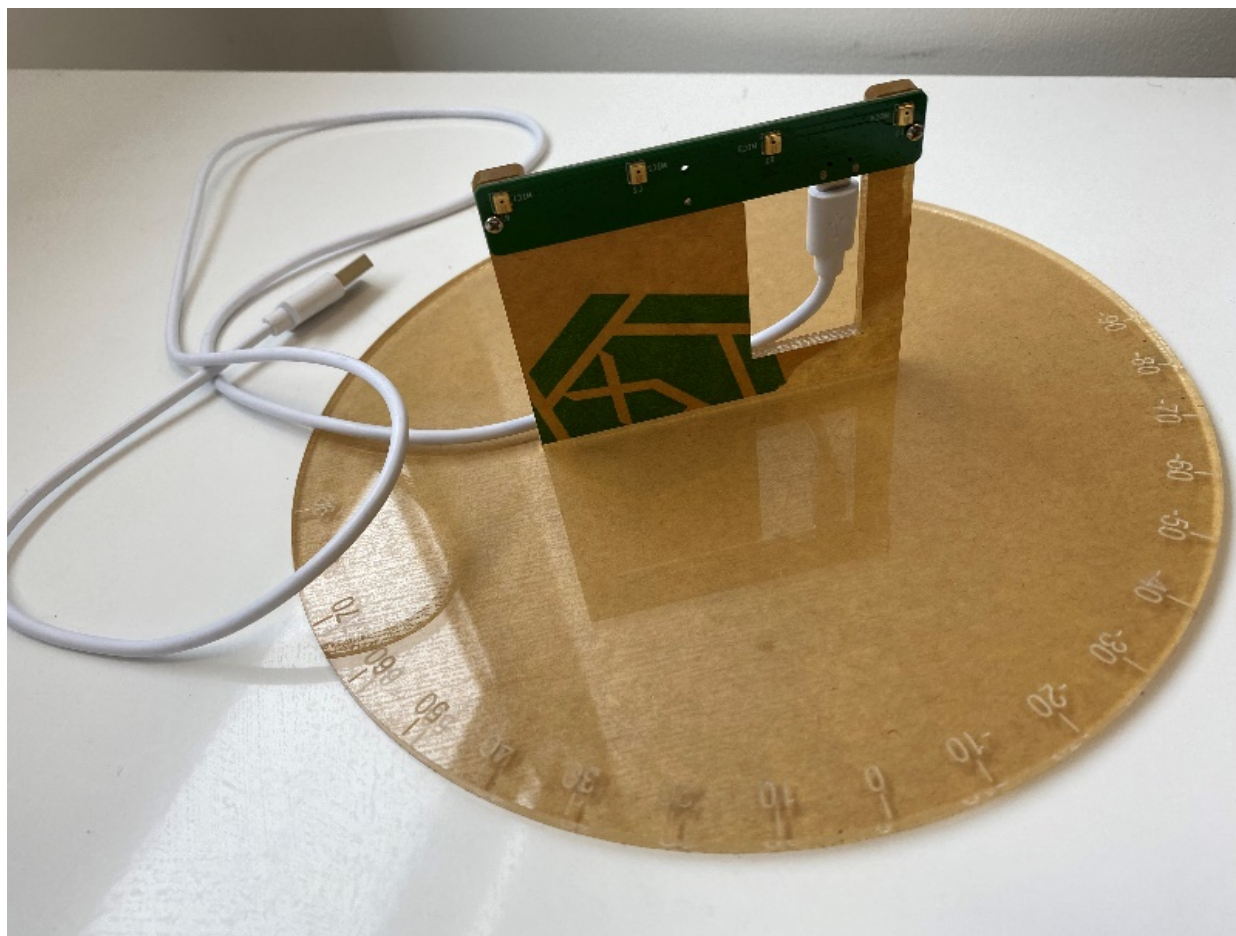
II. 2D-Circular array



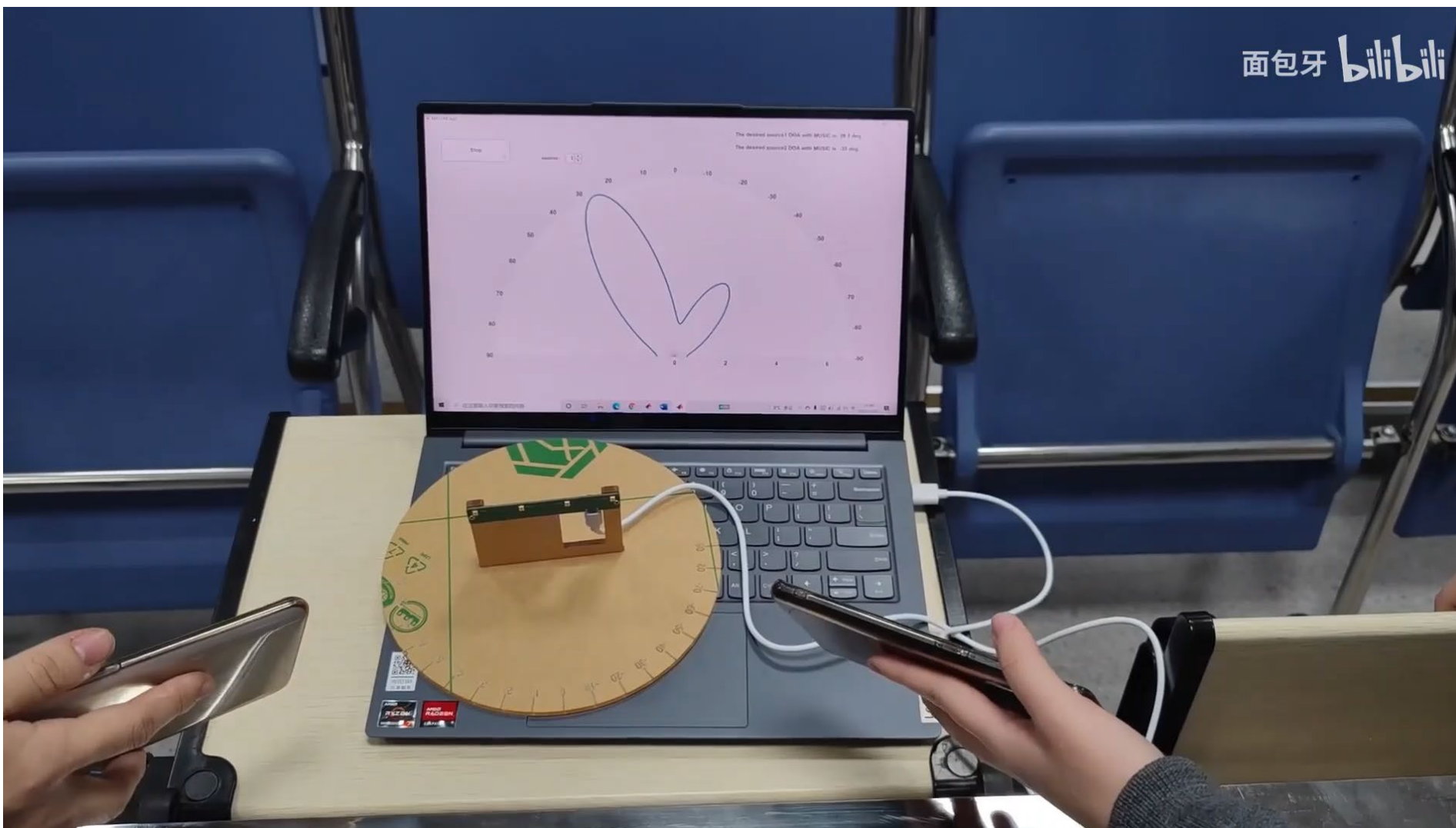


# Skills

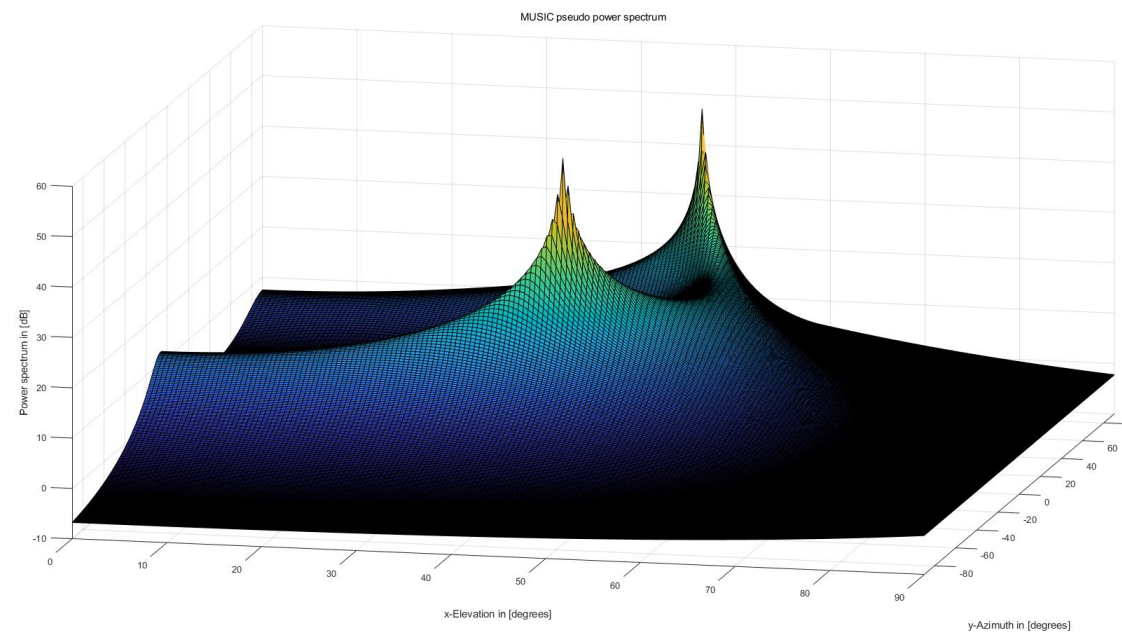
- **MATLAB programming**
- **Mathematics (calculus, linear algebra)**
- **Array signal processing**







# Bonus II - Circular array





# Thanks