Protocol Lecture 13.02

$Uncertainty\ principle$

- Quantum mechanical interpretation
- Second moment as a measure of uncertainty
- Statement of the Heisenberg principle
- Proof
- Other versions (no proofs):

Additive version

 ${\bf Donoho\text{-}Stark\ uncertainty\ principle}$

$Schwartz\ space$

- Definition
- Some examples
- System of norms, convergence
- ullet Fourier transform of functions in ${\mathcal S}$
- Convolution and multiplication
- More examples: finitely supported functions in S.

The content of this lecture can be found (mainly) in Lessons 19 and 22 of the textbook.