

Math 110 a
Telegraphic Notes for Week of Nov. 20

- Completeness of polynomials times fixed Gaussian in $L^2(\mathbb{R}, dx)$
- Hermite bases – their algebra
- Completeness of Hermite Bases
- The N-representation for Schwarz space and for Distributions
- Fourier Transform in the N-representation
- Fourier inversion and Plancherel theorems on Schwarz space
- The Poisson Summation formula for Schwartz space functions

Reference for some of this material the Handout.