## LECTURE 13 NOTES

## LUCAS CHEN

## 1. Chi-squared distribution

We know from HW 9 that the  $\chi^2$  distribution with n degrees of freedom is defined as  $\sum_{i=1}^n X_i$  with  $X_i$  N(0,1) independent.

 $Date \hbox{: July 26, 2024.}$