

Lecture 4

Time schedule:

12.30-14.15 : Lectures
14.30-16.15 : Exercises

Topic:

Continuous uniform distribution, normal distribution, normal approximation of the binomial distribution, χ^2 (chi-squared) distribution, t -distribution, F -distribution

Literature:

[W] sections 6.1 - 6.5 (until top of page 191), 6.8, in chapter 7 from top of page 224 to top of page 226) (theorem 7.11 and corollary 7.1), section 8.7 - 8.8.

Slides:

[PDF](#)

Exercises:

- 6.3, 6.10, 6.13, 6.18, 6.20, 6.22, 6.62, 6.67, in exercise 6.67 find an interval symmetric around the mean, so that the elongation is in this interval with 95% probability
- [Solutions to exercises](#) (in handwritten Danish)

English-Danish:

- uniform distribution = ligefordeling *or* uniform fordeling
- χ^2 (chi-squared) distribution = χ^2 -fordelingen ("ki-i-anden")

Svante