Group F Task (Maximum Likelihood)

to present Th., Sept. 28!

<u>Homework F:</u> Samples for X: 0, 3, 4, 5 and X~N (μ,σ). Compute the likelihood of the 4 samples and L ((μ,σ)|X) using: a. N(3,1.5), b. N(1,1) and the formula L ((μ,σ)|X) = $p_{\mu,\sigma}(0)*p_{\mu,\sigma}(3)*p_{\mu,\sigma}(4)*p_{\mu,\sigma}(5)$ c. What values does the maximum likelihood estimator (MLE) choose for (μ,σ)? Compute L(...) for its choice! d. How, in general, does the MLE work?