(A) instantiation data = load\_chromatogram(fname,cols) chrom = Chromatogram(data) 10 20 (B) time [min] chrom.fit\_peaks() i background subtraction ii peak detection chrom.correct\_baseline() chrom.\_assign\_windows() signal [a.u.] .0 .0 .5 20 time [min] time [min] iii peak fitting (C) peak measurements chrom.deconvolve\_peaks() ret\_time amp. scale skew area peak 10.90 2.3e+4 0.16 0.70 2.8e+6 2.5e+40.42 3.0e+6 14.45 3.7e+4 0.38 -3.53 4.4e+6 15 time [min] 20 (D) (E) 1.50 2.0 signal intensity [×10<sup>4</sup> a.u.] 1.25 1.25 1.00 1.00 0.75 0.50 integrated signal 1.5 4.0 6.0 8.0 0.00 14.0 15.0 retention time [min] known lactose concentration [mM]