```
library(pulseR)
# put math here
formulas <- MeanFormulas(</pre>
  total
             = mu,
  labelled = mu * (1 - exp(-d * 22)) * exp(-d * time),
  unlabelled = mu * (1 - exp(-d * time) * (1 - exp(-d * 22)))
# define the fractions
formulaIndexes <- list(</pre>
  total_fraction = 'total',
              = c('labelled', 'unlabelled'))
  pull down
lbNormFactors <- list(</pre>
  total_fraction = .1,
  pull down
                = c(.1,.00001)
ubNormFactors <- list(</pre>
  total_fraction = 10,
  pull_down
              = c(10, .3))
opts <- setBoundaries(list(</pre>
 mu = c(.1, 1e8),
  d = c(1e-4, 9),
  size = c(1, 1e6)),
  normFactors = list(lbNormFactors, ubNormFactors)
# let conditions be in a data.frame (sample, fraction, time)
pd <- PulseData(counts, conditions, formulas, formulaIndexes,</pre>
 groups = ~ fraction + time)
result <- fitModel(pd, initParValues, opts)</pre>
```