Output: MCML-Inv

```
Initial = countDat = Import[NotebookDirectory[], "MCSLoutput.csv"]; (* Edit here! *)
  ln[2]:= \{a, b, c, \etaaMean, \mutMean\} = Part[countDat, -5;; -1];
        These two functions convert between \eta a, \mu t space and \mu s, \mu a space.
  ln[3] = \mu t \eta a To AS[point_] := Module[{\mu t, \eta a}, {\mu t, \eta a} = point;
           \{(1-\eta a) * \mu t, \eta a \mu t\}
  ln[4]:= \mu t \eta a To A Sinv[point] := Module[{\mu s, \mu a}, {\mu s, \mu a} = point;
           \{\mu s + \mu a, \mu a / (\mu s + \mu a)\}
  In[5]:= style[str_] := Style[str, Black, Bold, 14, FontFamily → "Helvetica"]
  ln[6]:= \{\mu sMean, \mu aMean\} = \mu t \eta aToAS[\{\mu tMean, \eta aMean\}] // Flatten;
  |n|_{[r]} = pointText = StringForm["(``, ``)", NumberForm[<math>\musMean, 3], NumberForm[\muaMean, 3]];
  ln[8]:= logLik[point_] := Module[{\mu t, \eta a}, {\mu t, \eta a} = point;
           a (\eta a - \eta a M ean)^2 / 2 + b (\eta a - \eta a M ean) (\mu t - \mu t M ean) + c (\mu t - \mu t M ean)^2 / 2
       Set the confidence interval:
  In[9]:= p = .95; (* Edit here! *)
 log(0) = \chi 2 = 0.5 \, \text{x} / \text{.} FindRoot[CDF[ChiSquareDistribution[2], x] == p, {x, 1}];
 \ln[11] = \text{ellipse} = \text{Show}[\text{ContourPlot}[-\log\text{Lik}[\mu t \eta a \text{ToASinv}[\{\mu s, \mu a\}]] = \chi 2,
            \{\mu s, \mu sMean * 0.95, \mu sMean * 1.05\}, \{\mu a, \mu aMean * 0.95, \mu aMean * 1.05\},
            ContourStyle → Blue, PlotLabel → style[pointText]],
          ListPlot[\{\{\mu s Mean, \mu a Mean\}\}, PlotStyle \rightarrow Blue], AspectRatio \rightarrow 0.6,
          Frame → True, FrameStyle → Directive[Thick, Black, Bold, 12],
          FrameLabel \rightarrow {"\mu_s (mm<sup>-1</sup>)", "\mu_a (mm<sup>-1</sup>)"}
                                      (2.74, 0.0086)
           0.0090
            0.0088
Out[11]= 0.0086
            0.0084
            0.0082
                           2.65
                                              2.75
                  2.60
                                     2.70
                                                        2.80
                                                                  2.85
```

 μ_{s} (mm⁻¹)