```
(defquery outer-query [x M]
(defn outer-E [x M N]
                                   (let [z'] (sample param-prior)
  (-> (doquery :smc
                                         experiment (setup-exp z' x)
         outer-query [x M])
      (take N)
                                         y (sample experiment)
                                         log-lik (observe* experiment y)
     log-marginal))
                                         log-marg (inner-E x y M)]
                                     (- loglik logmarg)))
(defn inner-E [x y M]
(-> (doquery :smc
                                  (defquery inner-query [x \ y]
       inner-query [x \ y]
                                  (let [z (sample param-prior)]
     (take M)
                                   (observe (setup-exp z x) y))
    log-marginal))
```