add β
what means

add
Transaction
Cost.

# FURTHER DEVELOPMENT OPTIONS FOR BAYESIAN TRACKER

1. more time series, manual tuning
2. automatic maximum liklihood seeker (single series)
3. factorization of series:
    a. market
    b. industries
    c. individual
4. factored series (or otherwise)
    Portfolio optimizer
    a. sampling approach ✓ Multi Portfolio – Turn caller
    b. proper treatment of transaction costs
5. simple introduction of transaction penalty in present model; tradeoffs with turnover rate
6. leverage; short selling; options; etc.
7. two component coupled: money market, stocks market (need workout of optimizer -- probably Taylor series.)
8. validation of how accurate Taylor series expansion is:
    a. more terms
    b. direct (sampling) calculation
9. dynamic liklihood: more weight on recent past; investigate stability of process over different epochs
10. theoretical calculation: relative liklihood of best "reasonable" stationary distribution
11. more complex models -- sampling version of forecaster
12. investigate behavior with frequency of observation (do by dropping subsets)
13. volume term: i.e. measure time in variable units. (DOWN SCALE FASTER THAN UP SCALE!)
14. commodities prices
    a. option markets
    b. money markets
15. Research on Fitting to other Statistics (eg $\langle X, X \rangle$ autocorrelation)
16. Turn Call "Quality" (compactness)